

Author Index

A

Aanjaneya, Mridul

Image Webs: Computing and Exploiting Connectivity in Image Collections

Abe, Miho

Demo: CUDA-based Implementations of Softassign and EM-ICP

Abou-Moustafa, Karim T.

Pareto Discriminant Analysis

Abowd, Gregory D.

Temporal Causality for the Analysis of Visual Events

Abraham, Wickliffe C.

Boundary Learning by Optimization with Topological Constraints

Abugarbieh, Rafeef

Group MRF for fMRI Activation Detection

Ackermann, Hanno

Multilinear Pose and Body Shape Estimation of Dressed Subjects from Image Sets

Adamek, Tomasz

DARTs: Efficient scale-space extraction of DAISY keypoints

Adelson, Edward H.

Exploring Features in a Bayesian Framework for Material Recognition

Aeschliman, Chad

A Probabilistic Framework for Joint Segmentation and Tracking

Aghajan, Hamid

Workshop: Hierarchical Preference Learning for Light Control from User Feedback

Agrawal, Amit

Specular Surface Reconstruction from Sparse Reflection Correspondences

Axial Light Field for Curved Mirrors: Reflect Your Perspective, Widen Your View

Optimal Coded Sampling for Temporal Super-Resolution

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Ahad, Md. Atiqur Rahman

Workshop: Action Recognition by Employing Combined Directional Motion History and Energy Images

Ahuja, Narendra

SVM for Edge-Preserving Filtering

A Constant-Space Belief Propagation Algorithm for Stereo Matching

Aiger, Dror

The Phase Only Transform for Unsupervised Surface Defect Detection

Ajdin, Boris

Optimal HDR Reconstruction with Linear Digital Cameras

Al-Khateeb, Hussein

Workshop: Automatic Change Detection in an Indoor Environment

Alahari, Karteek

Efficient Piecewise Learning for Conditional Random Fields

Albarelli, Andrea

A Game-Theoretic Approach to Fine Surface Registration without Initial Motion Estimation

Aldavert, David

Fast and Robust Object Segmentation with the Integral Linear Classifier

Demo: Fast and Robust Object Segmentation with the Integral Linear Classifier

Alexandre, Luís A.

Workshop: Wigner Distribution based Motion Tracking of Human Beings using Thermal Imaging

Alexe, Bogdan

What is an Object?

Aliaga, Daniel G.

High-Resolution Modeling of Moving and Deforming Objects Using Sparse Geometric and Dense Photometric Measurements

Building Reconstruction using Manhattan-World Grammars

Allan, Moray

Improving Web Image Search Results using Query-relative Classifiers

Aloimonos, Yiannis

Learning Shift-Invariant Sparse Representation of Actions

Alonso-Fernandez, Fernando

Workshop: Scenario-Based Score Fusion for Face Recognition at a Distance

Alt, Nicolas

Rapid Selection of Reliable Templates for Visual Tracking

Alvarez, Jose M.

3D Scene Priors for Road Detection

Álvarez, Luis

Morphological Snakes

Aly, Mohamed

Workshop: Online Learning for Parameter Selection in Large Scale Image Search

Amano, Toshiyuki

Workshop: Appearance Control by Projector Camera Feedback for Visually Impaired

Amari, Shun-ichi

Total Bregman Divergence and its Applications to Shape Retrieval

Ambadar, Zara

Workshop: The Extended Cohn-Kanade Dataset (CK+): A Complete Dataset for Action Unit and Emotion-specified Expression

Amir, Arnon

Shape-based Similarity Retrieval of Doppler Images for Clinical Decision Support

Amira, Abbas

Workshop: Dynamically Reconfigurable Architecture for Real Time Adaptation of H264/AVC-SVC Video Streams

An, Senjian

Exploiting Monge Structures in Optimum Subwindow Search

Anderer, Claus

Workshop: Measuring the Quality of Figure/Ground Segmentations

Andrade-Cetto, Juan

Efficient Rotation Invariant Object Detection using Boosted Random Ferns

Andriluka, Mykhaylo

Monocular 3D Pose Estimation and Tracking by Detection

Ang, Marcelo H., Jr.

Workshop: Tracking of Cell Population from Time Lapse and End Point Confocal Microscopy Images with Multiple Hypothesis Kalman Smoothing Filters

Angelopoulou, Elli

Workshop: A Graph-Based Approach for Robust Single-Shot Structured Light

Antani, Sameer K.

Workshop: Local Concept-Based Medical Image Retrieval with Correlation-Enhanced Similarity Matching Based on Global Analysis

Anton, François

Multi-domain, Higher Order Level Set Scheme for 3D Image Segmentation on the GPU

Antone, Matthew

Workshop: Appearance-based Object Reacquisition for Mobile Manipulation

Aodha, Oisín Mac

Segmenting Video Into Classes of Algorithm-Suitability

Appiah, Kofi

Workshop: Binary Histogram based Split/Merge Object Detection using FPGAs

Aradhye, Hrishikesh

Finding Meaning on YouTube: Tag Recommendation and Category Discovery

Arandjelović, Ognjen

Automatic Attribution of Ancient Roman Imperial Coins

Arbel, Tal

Workshop: Gender Classification from Unconstrained Video Sequences

Arderiu , Joan

Workshop: The HPU

Arens, Michael

Workshop: Measuring the Quality of Figure/Ground Segmentations

Argyriou, Vasileios

Workshop: Dense Photometric Stereo Reconstruction on Many Core GPUs

Workshop: Immersive and Perceptual Human-Computer Interaction Using Computer Vision Techniques

Arnaud, Elise

Estimating Satellite Attitude from Pushbroom Sensors

Arsić, Dejan

Workshop: Automated Pose Estimation in 3D Point Clouds Applying Annealing Particle Filters and Inverse Kinematics on a GPU

Workshop: A Graphical Model for Unifying Tracking and Classification within a Multimodal Human-Robot Interaction Scenario

Arth, Clemens

Workshop: Instant Segmentation and Feature Extraction for Recognition of Simple Objects on Mobile Phones

Asada, H. Harry

Workshop: Tracking of Cell Population from Time Lapse and End Point Confocal Microscopy Images with Multiple Hypothesis Kalman Smoothing Filters

Asada, Naoki

Workshop: One-shot Scanning Method using an Uncalibrated Projector and Camera System

Ashraf, Ahmed Bilal

Fast Image Alignment in the Fourier Domain

Atanasoaei, Cosmin

Demo: MOBIO: Mobile Biometric Face and Speaker Authentication

Attias, Hagai T.

Topic Regression Multi-Modal Latent Dirichlet Allocation for Image Annotation

Audet, Samuel

Direct Image Alignment of Projector-Camera Systems with Planar Surfaces

Avidan, Shai

A Probabilistic Image Jigsaw Puzzle Solver

An Eye for an Eye: A Single Camera Gaze-Replacement Method

Ayed, Ismail Ben

Finding Image Distributions on Active Curves

Graph Cut Segmentation with a Global Constraint: Recovering Region Distribution via a Bound of the Bhattacharyya Measure

Azouz, Zouhour Ben

Posture Invariant Surface Description and Feature Extraction

Azpiroz, Fernando

Workshop: Aligning Endoluminal Scene Sequences in Wireless Capsule Endoscopy

B

Baak, Andreas

Multisensor-Fusion for 3D Full-Body Human Motion Capture

Babaguchi, Noboru

Workshop: Detecting Intended Human Objects in Human-Captured Videos

Bach, Francis

Discriminative Clustering for Image Co-segmentation

Learning Mid-Level Features For Recognition

Badrinarayanan, Vijay

Label Propagation in Video Sequences

Bae, Egil

A Study on Continuous Max-Flow and Min-Cut Approaches

Baek, Jongmin

Upsampling Range Data in Dynamic Environments

Bagdanov, Andrew D.

Harmony Potentials for Joint Classification and Segmentation

Bagon, Shai

Detecting and Sketching the Common

Bahsa, Tali

Multi-View Scene Flow Estimation: A View Centered Variational Approach

Bailloeuil, Timothee

Demo: Mobile Visual Search, Linking Printed Documents to Digital Media

Bajaj, Chandrajit

Multi-domain, Higher Order Level Set Scheme for 3D Image Segmentation on the GPU

Bajcsy, Ruzena

Workshop: Teleimmersive 3D Collaborative Environment for Cyberarchaeology

Baker, Simon

Removing Rolling Shutter Wobble

Balasubramanian, Vineeth

Workshop: Learning from Summaries of Videos: Applying Batch Mode Active Learning to Face-based Biometrics

Banerjee, Amit

Workshop: Tracking via Object Reflectance using a Hyperspectral Camera

Banerjee, Subhashis

Workshop: Distributed Calibration of Pan-Tilt Camera Network using Multi-Layered Belief Propagation

Bannat, Alexander

Workshop: A Graphical Model for Unifying Tracking and Classification within a Multimodal Human-Robot Interaction Scenario

Bao, Sid Ying-Ze

Toward Coherent Object Detection And Scene Layout Understanding

Baracos, Vickie

Demo: User Guided MRI Segmentation: Balancing User Interaction and Automatic Segmentation

Barinova, Olga

On Detection of Multiple Object Instances using Hough Transforms

Bariya, Prabin

Scale-Hierarchical 3D Object Recognition in Cluttered Scenes

Barnard, Mark

Ip Norm Multiple Kernel Fisher Discriminant Analysis for Object and Image Categorisation

Barnwell, John

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Bartlett, Marian S.

Workshop: Facial Expression Recognition Using Gabor Motion Energy Filters

Basak, Jayanta

Workshop: QPLC: A Novel Multimodal Biometric Score Fusion Method

Basri, Ronen

Co-clustering of Image Segments Using Convex Optimization Applied to EM Neuronal Reconstruction

Batmanghelich, Nematollah

Workshop: Application of Trace-Norm and Low-Rank Matrix Decomposition for Computational Anatomy

Batog, Guillaume

Admissible Linear Map Models of Linear Cameras

Batra, Dhruv

iCoseg: Interactive Co-segmentation with Intelligent Scribble Guidance
Beyond Trees: MRF Inference via Outer-Planar Decomposition

Bauer, Christian

Variational Segmentation of Elongated Volumetric Structures

Bauer, Sebastian

Workshop: FPGA-GPU Architecture for Kernel SVM Pedestrian Detection

Baumela, Luis

Morphological Snakes

Bazin, Pierre-Louis

Workshop: Topology-Preserving STAPLE

Bazzani, Loris

Person Re-Identification by Symmetry-Driven Accumulation of Local Features

Belbachir, Ahmed Nabil

Workshop: A Real-time Pedestrian Classification Method for Event-based Dynamic Stereo Vision

Workshop: Real-time Classification of Pedestrians and Cyclists for Intelligent Counting of Non-Motorized Traffic

Workshop: A Spatio-temporal Clustering Method Using Real-time Motion Analysis on Event-based 3D Vision

Belongie, Serge

Multi-Class Object Localization by Combining Local Contextual Interactions

Demo: OpenScan: Using Computer Vision to Achieve Transparency in Elections

Workshop: Toward Real-Time Grocery Detection for the Visually Impaired

Workshop: Removing Pedestrians from Google Street View Images

Ben-Ezra, Moshe

A Framework for Ultra High Resolution 3D Imaging

Ben-Shahar, Ohad

Minimum Length in the Tangent Bundle as a Model for Curve Completion

Ben-Yosef, Guy

Minimum Length in the Tangent Bundle as a Model for Curve Completion

Beneš, Bedřich

Building Reconstruction using Manhattan-World Grammars

Bennett, Eric

Removing Rolling Shutter Wobble

Berger, Armin

Workshop: Multiple Instance Learning from Multiple Cameras

Berger, Daniel R.

Boundary Learning by Optimization with Topological Constraints

Bernardis, Elena

Finding Dots: Segmentation as Popping out Regions from Boundaries

Workshop: Structural Correspondence as A Contour Grouping Problem

Bernhardt, Dominik

Search Strategies for Multiple Landmark Detection by Submodular Maximization

Bertelli, Luca

Workshop: An Efficient Fashion-driven Learning Approach to Model User Preferences in On-Line Shopping Scenarios

Berviller, Yves

Workshop: Dynamically Reconfigurable Architecture for Real Time Adaptation of H264/AVC-SVC Video Streams

Bespalov, Dmitriy

Workshop: Classification of Archaeological Ceramic Fragments Using Texture and Color Descriptors

Beveridge, J. Ross

Action Classification on Product Manifolds

Visual Object Tracking using Adaptive Correlation Filters

Workshop: Quantifying How Lighting and Focus Affect Face Recognition Performance

Beymer, David

Shape-based Similarity Retrieval of Doppler Images for Clinical Decision Support

Workshop: Cardiac Disease Detection from Echocardiogram using Edge Filtered Scale-invariant Motion Features

Bhalodia, Viral

Anomaly Detection in Crowded Scenes

Bhanu, Bir

Workshop: Ethnicity Classification Based on Gait Using Multi-view Fusion

Workshop: Error Model for Scene Reconstruction from Motion and Stereo

Bharath, Anil A.

Workshop: Dense Photometric Stereo Reconstruction on Many Core GPUs

Bhuiyan, Alauddin

Demo: Retinal Vessel Caliber Measurement: A Semi-automatic Approach

Bi, Jinbo

Stratified Learning of Local Anatomical Context for Lung Nodules in CT Images

Bibby, Charles

Real-time Tracking of Multiple Occluding Objects using Level Sets

Bies, Brian

Using Cloud Shadows to Infer Scene Structure and Camera Calibration

Bigham, Jeffrey P.

Workshop: VizWiz::LocateIt - Enabling Blind People to Locate Objects in Their Environment

Bilge, M. Taha

Workshop: Facial Action Unit Detection: 3D versus 2D Modality

Bilodeau, Guillaume-Alexandre

Workshop: Feedback Scheme for Thermal-visible Video Registration, Sensor Fusion, and People Tracking

Bimber, Oliver

Workshop: Fast and Robust CAMShift Tracking

Binefa, Xavier

Facial Point Detection using Boosted Regression and Graph Models

Workshop: Facial Component Detection in Thermal Imagery

Workshop: Concealed Object Detection and Segmentation over Millimetric Waves Images

Birkbeck, Neil

Demo: User Guided MRI Segmentation: Balancing User Interaction and Automatic Segmentation

Biros, George

Workshop: An EM Algorithm for Brain Tumor Image Registration: A Tumor Growth Modeling Based Approach

Bischof, Horst

Motion Estimation with Non-Local Total Variation Regularization

Linked Edges as Stable Region Boundaries

Online Multi-Class LPBoost

On-line Semi-supervised Multiple-Instance Boosting

Variational Segmentation of Elongated Volumetric Structures

PROST: Parallel Robust Online Simple Tracking

Workshop: Context-driven Clustering by Multi-class Classification in an Active Learning Framework

Workshop: Occlusion Detection for ICAO Compliant Facial Photographs

Workshop: FlowGames

Workshop: TransientBoost: On-line Boosting with Transient Data

Workshop: Multiple Instance Learning from Multiple Cameras

Biswas, Soma

Pose-Robust Albedo Estimation from a Single Image

Black, James

Demo: A DSP-based Video Content Analysis System

Black, John A., Jr.

Workshop: The Note-Taker: An Assistive Technology That Allows Students Who Are Legally Blind to Take Notes in the Classroom

Black, Michael J.

Secrets of Optical Flow Estimation and Their Principles

Tracking People Interacting with Objects

Contour People: A Parameterized Model of 2D Articulated Human Shape

Blake, Andrew

Geodesic Star Convexity for Interactive Image Segmentation

Blanchard, Chuck

Workshop: LookTel—A Comprehensive Platform for Computer-Aided Visual Assistance

Blauensteiner, Philipp

Workshop: A Socio-Technical Approach for Event Detection in Security Critical Infrastructure

Blei, David M.

Building and Using a Semantivisual Image Hierarchy

Bleyer, Michael

Surface Stereo with Soft Segmentation

Bobbitt, Russell

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Boghossian, Boghos

Demo: A DSP-based Video Content Analysis System

Bogovic, John A.

Workshop: Topology-Preserving STAPLE

Bollmann, Benjamin

Boundary Learning by Optimization with Topological Constraints

Bolme, David S.

Visual Object Tracking using Adaptive Correlation Filters

Workshop: Quantifying How Lighting and Focus Affect Face Recognition Performance

Bonnin, Arturo

DARTs: Efficient scale-space extraction of DAISY keypoints

Bosch, Xavier Boix

Harmony Potentials for Joint Classification and Segmentation

Bossard, Lukas

Workshop: Server-side Object Recognition and Client-side Object Tracking for Mobile Augmented Reality

Bouchaffra, Djamel

Workshop: Topological Dynamic Bayesian Networks: Application to Human Face Identification across Ages

Boult, Terrance

Workshop: FACE-GRAB: Face Recognition with General Region Assigned to Binary Operator

Boult, Terry E.

Workshop: A Taxonomy of Face-models for System Evaluation

Boureau, Y-Lan

Learning Mid-Level Features For Recognition

Bourgeois, Steve

Real-Time Vehicle Global Localisation with a Single Camera in Dense Urban Areas: Exploitation of Coarse 3D City Models

Bowden, Jared B.

Boundary Learning by Optimization with Topological Constraints

Bowyer, Kevin W.

Workshop: Similarity of Iris Texture between Identical Twins

Boyer, Edmond

Free-Form Mesh Tracking: a Patch-Based Approach

Probabilistic 3D Occupancy Flow with Latent Silhouette Cues

Boyer, Kim L.

Sign Ambiguity Resolution for Phase Demodulation in Interferometry with Application to Prelens Tear Film Analysis

Boyer, Kim

Stratified Learning of Local Anatomical Context for Lung Nodules in CT Images

Boykov, Yuri

Fast Approximate Energy Minimization with Label Costs

Bradski, Gary

Demo: OpenCV on NVidia Steroids

Demo: Robot Vision and Manipulation on Willow Garage's PR2

Brändle, Norbert

Workshop: A Real-time Pedestrian Classification Method for Event-based Dynamic Stereo Vision

Workshop: Real-time Classification of Pedestrians and Cyclists for Intelligent Counting of Non-Motorized Traffic

Brandt, Jonathan

Transform Coding for Fast Approximate Nearest Neighbor Search in High Dimensions

Brashear, Helene

Workshop: A Novel Approach to American Sign Language (ASL) Phrase Verification using Reversed Signing

Brédif, Mathieu

Hybrid Multi-view Reconstruction by Jump-Diffusion

Bregler, Christoph

Workshop: Hands by Hand: Crowd-sourced Motion Tracking for Gesture Annotation

Breitenstein, Michael D.

What's going on? Discovering Spatio-Temporal Dependencies in Dynamic Scenes

Brémond, François

Gesture Recognition by Learning Local Motion Signatures

Briggman, Kevin L.

Boundary Learning by Optimization with Topological Constraints

Brkić, Karla

Workshop: Generative Modeling of Spatio-temporal Traffic Sign Trajectories

Bronstein, Alexander M.

Data Fusion through Cross-modality Metric Learning using Similarity-Sensitive Hashing

Bronstein, Michael M.

Scale-invariant Heat Kernel Signatures for Non-rigid Shape Recognition

Data Fusion through Cross-modality Metric Learning using Similarity-Sensitive Hashing

Brostovski, Ori

Detecting and Sketching the Common

Brostow, Gabriel J.

Segmenting Video Into Classes of Algorithm-Suitability

Brown, Chris

Workshop: Syntactic Image Parsing using Ontology and Semantic Descriptions

Brown, Lisa

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Brown, Michael S.

Super Resolution using Edge Prior and Single Image Detail Synthesis
Ink-Bleed Reduction Using Functional Minimization
A Framework for Ultra High Resolution 3D Imaging

Brown, Robert G.

Workshop: Display Gamut Reshaping for Color Emulation and Balancing

Bruns, Erich

Workshop: Fast and Robust CAMShift Tracking

Brunsmann, Ulrich

Workshop: FPGA-GPU Architecture for Kernel SVM Pedestrian Detection

Bryan, Nick

Workshop: Learning High-dimensional Image Statistics for Abnormality Detection on Medical Images

Bugajska, Magdalena D.

Workshop: Integrating Vision for Human-Robot Interaction

Buhmann, Joachim M.

Neuron Geometry Extraction by Perceptual Grouping in ssTEM Images
Towards Weakly Supervised Semantic Segmentation by Means of Multiple Instance and Multitask Learning.

Bui, Tien Dai

Workshop: Spectral Regression based Age Determination

Bustard, John D.

3D Morphable Model Construction for Robust Ear and Face Recognition

Byrns, David

Workshop: Computer-Vision-Assisted System for Videodescription Scripting

C**Caban, Jesus J.**

Workshop: An MRF-based Statistical Deformation Model for Morphological Image Analysis

Cabeen, Ryan P.

Diffeomorphic Sulcal Shape Analysis for Cortical Surface Registration

Cabrini, Daniel

REVEAL Intermediate Report

Caetano, Tibério S.

Unified Graph Matching in Euclidean Spaces

Cagniard, Cedric

Free-Form Mesh Tracking: a Patch-Based Approach

Cai, Hongping

Learning Weights for Codebook in Image Classification and Retrieval

Ip Norm Multiple Kernel Fisher Discriminant Analysis for Object and Image Categorisation

Cai, Jianfei

A Diffusion Approach to Seeded Image Segmentation

Cai, Qin

Workshop: Real Time Head Pose Tracking from Multiple Cameras with a Generic Model

Calakli, Fatih

Workshop: Robust One-Shot 3D Scanning Using Loopy Belief Propagation

Calderara, Simone

Workshop: People Trajectory Mining with Statistical Pattern Recognition

Calonder, Michael

Pareto-optimal Dictionaries for Signatures

Camoglu, Orhan

Workshop: An Efficient Fashion-driven Learning Approach to Model User Preferences in On-Line Shopping Scenarios

Camps, Octavia

GPCA with Denoising: A Moments-Based Convex Approach

Cannons, Kevin

Efficient Action Spotting Based on a Spacetime Oriented Structure Representation

Can Aras, H.

Workshop: HINDSITE: A User-Interactive Framework for Fragment Assembly

Canton-Ferrer, Cristian

Workshop: Spatio-Temporal Alignment and Hyperspherical Radon Transform for 3D Gait Recognition in Multi-view Environments

Workshop: Real-Time 3D Multi-Person Tracking Using Monte Carlo Surface Sampling

Cantoni, Marco

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Cao, Liangliang

Cross-Dataset Action Detection

Cao, Xiaochun

Geo-location Estimation from Two Shadow Trajectories

Cao, Yang

Spatial-Bag-of-Features

Cao, Yu

Free-Shape Subwindow Search for Object Localization

Cao, Zhimin

Face Recognition with Learning-based Descriptor

Caputo, Barbara

Online-Batch Strongly Convex Multi Kernel Learning

Safety in Numbers: Learning Categories from Few Examples with Multi Model Knowledge Transfer
Workshop: OM-2: An Online Multi-class Multi-kernel Learning Algorithm

Carneiro, Gustavo

The Automatic Design of Feature Spaces for Local Image Descriptors using an Ensemble of Non-linear Feature Extractors

Multiple Dynamic Models for Tracking the Left Ventricle of the Heart from Ultrasound Data using Particle Filters and Deep Learning Architectures

Carreira-Perpiñán, Miguel Á.

Manifold Blurring Mean Shift Algorithms for Manifold Denoising

Parametric Dimensionality Reduction by Unsupervised Regression

Carreira, João

Object Recognition as Ranking Holistic Figure-Ground Hypotheses

Constrained Parametric Min-Cuts for Automatic Object Segmentation

Casas, Josep R.

Workshop: Spatio-Temporal Alignment and Hyperspherical Radon Transform for 3D Gait Recognition in Multi-view Environments

Workshop: Real-Time 3D Multi-Person Tracking Using Monte Carlo Surface Sampling

Cattin, Philippe

Tracking the Invisible: Learning Where the Object Might be

Cavallaro, Alexander

Lymph Node Detection in 3-D Chest CT using a Spatial Prior Probability

Černocký, Honza

Demo: MOBIO: Mobile Biometric Face and Speaker Authentication

Cesa-Bianchi, Nicolò

Workshop: OM-2: An Online Multi-class Multi-kernel Learning Algorithm

Cevikalp, Hakan

Face Recognition Based on Image Sets

Chakrabarti, Ayan

Analyzing Spatially-varying Blur

Chakraborty, Shayok

Workshop: Learning from Summaries of Videos: Applying Batch Mode Active Learning to Face-based Biometrics

Cham, Tat-Jen

Fast Polygonal Integration and Its Application in Extending Haar-like Features to Improve Object Detection

Estimating Camera Pose from a Single Urban Ground-View Omnidirectional Image and a 2D Building Outline Map

Cham, Wai-Kuen

Gradient-directed Composition of Multi-exposure Images

Fast Pattern Matching using Orthogonal Haar Transform

Chan, Antoni B.

Clustering Dynamic Textures with the Hierarchical EM Algorithm

Chan, Derek

3D Shape Scanning with a Time-of-Flight Camera

Chan, Kap Luk

Spatialized Epitome and Its Applications

Chan, Tony F.

Metric-Induced Optimal Embedding for Intrinsic 3D Shape Analysis

Chan, Tony F

Compression of Surface Registrations using Beltrami Coefficients

Chandrasekhar, Vijay

Unified Real-Time Tracking and Recognition with Rotation-Invariant Fast Features

Workshop: Quantization Schemes for Low Bitrate Compressed Histogram of Gradient Descriptors

Chang, Huang-Wei

A Square-Root Sampling Approach to Fast Histogram-Based Search

Chang, Shih-Fu

Semi-Supervised Hashing for Scalable Image Retrieval

Chang, Yaw

Workshop: Face Age Estimation Using Model Selection

Chapdelaine, Claude

Workshop: Computer-Vision-Assisted System for Videodescription Scripting

Charmette, Baptiste

Workshop: Efficient Planar Features Matching for Robot Localization using GPU

Chaudhury, Santanu

Workshop: Distributed Calibration of Pan-Tilt Camera Network using Multi-Layered Belief Propagation

Chausse, Frédéric

Workshop: Efficient Planar Features Matching for Robot Localization using GPU

Chauve, Anne-Laure

Robust Piecewise-Planar 3D Reconstruction and Completion from Large-Scale Unstructured Point Data

Checkik, Gal

Object Separation In X-Ray Image Sets

Chelikani, Sudhakar

Workshop: Constrained Non-rigid Registration Using Lagrange Multipliers for Application in Prostate Radiotherapy

Chellappa, Rama

Robust RVM Regression Using Sparse Outlier Model

Group Motion Segmentation Using a Spatio-Temporal Driving Force Model

Moving Vistas: Exploiting Motion for Describing Scenes

Pose-Robust Albedo Estimation from a Single Image

Fast Directional Chamfer Matching

Workshop: Tracking via Object Reflectance using a Hyperspectral Camera

Chen, Cheng

Workshop: Door Detection via Signage Context-based Hierarchical Compositional Model

Chen, Cuixian

Workshop: Face Age Estimation Using Model Selection

Chen, David

Unified Real-Time Tracking and Recognition with Rotation-Invariant Fast Features

Workshop: Quantization Schemes for Low Bitrate Compressed Histogram of Gradient Descriptors

Chen, Hua-mei

Graph Cut Segmentation with a Global Constraint: Recovering Region Distribution via a Bound of the Bhattacharyya Measure

Chen, Hwann-Tzong

A Square-Root Sampling Approach to Fast Histogram-Based Search

Chen, Lili

Demo: The OpenTL Framework for Model-based Visual Tracking

Chen, Lin

Tag-based Web Photo Retrieval Improved by Batch Mode Re-Tagging

Chen, Mei

Food Recognition Using Statistics of Pairwise Local Features

Heterogeneous Conditional Random Field: Realizing Joint Detection and Segmentation of Cell Regions in Microscopic Images

Chen, Mo

Isoperimetric Cut on a Directed Graph

Chen, Qiang

Factorization Towards a Classifier

Chen, Sheng

Visual Tracking via Weakly Supervised Learning from Multiple Imperfect Oracles

Chen, Tsuhan

iCoseg: Interactive Co-segmentation with Intelligent Scribble Guidance

Fast Image Alignment in the Fourier Domain

Beyond Trees: MRF Inference via Outer-Planar Decomposition

Chen, Wei

Visual Tracking via Incremental Self-tuning Particle Filtering on the Affine Group

Chen, Xiaoming

Exploiting Monge Structures in Optimum Subwindow Search

Chen, Xilin

Adaptive Generic Learning for Face Recognition from a Single Sample per Person

Chen, Xin

Denoising vs. Deblurring: HDR Imaging Techniques Using Moving Cameras

Chen, Xuejin

Workshop: An Integrated Image and Sketching Environment for Archaeological Sites

Chen, Yuanhao

Latent Hierarchical Structural Learning for Object Detection

Part and Appearance Sharing: Recursive Compositional Models for Multi-View Multi-Object Detection

Chen, Yurong

Bundled Depth-Map Merging for Multi-View Stereo

Cheng, Hui

Vehicle Detection and Tracking in Wide Field-of-View Aerial Video

3D Model Based Vehicle Classification in Aerial Imagery

Cheng, K. T. Tim

Workshop: Mobile Image Search With Multimodal Context-Aware Queries

Cheng, Yuan

Correcting Over-Exposure in Photographs

Chia, Alex Yong-Sang

Object Recognition by Discriminative Combinations of Line Segments and Ellipses

Chia, Liang-Tien

Local Features Are Not Lonely - Laplacian Sparse Coding for Image Classification

Estimating Camera Pose from a Single Urban Ground-View Omnidirectional Image and a 2D Building Outline Map

Chin, Tat-Jun

Multi-Structure Model Selection via Kernel Optimisation

Chittajallu, Deepak R.

A Shape-Driven MRF Model for the Segmentation of Organs in Medical Images

Chklovskii, Dmitri

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Chli, Margarita

Scalable Active Matching

Cho, Minsu

Authority-Shift Clustering: Hierarchical Clustering by Authority Seeking on Graphs

Unsupervised Detection and Segmentation of Identical Objects

Cho, Nam Ik

Rectification of Figures and Photos in Document Images using Bounding Box Interface

Cho, Sungdae

Workshop: Mobile Photo Collage

Cho, Taeg Sang

A Content-Aware Image Prior

A Probabilistic Image Jigsaw Puzzle Solver

Choe, Tae Eun

Workshop: Traffic Analysis with Low Frame Rate Camera Networks

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Choi, Jongmoo

Accurate 3D Face Reconstruction from Weakly Calibrated Wide Baseline Images with Profile Contours

Choi, Myung Jin

Exploiting Hierarchical Context on a Large Database of Object Categories

Choudhary, Ayesha

Workshop: Distributed Calibration of Pan-Tilt Camera Network using Multi-Layered Belief Propagation

Choudhury, Anustup

Workshop: Color Contrast Enhancement for Visually Impaired People

Christiansen, Eric

Workshop: Toward Real-Time Grocery Detection for the Visually Impaired

Chu, Xinqi

Spatialized Epitome and Its Applications

Chua, Tat-Seng

Semantic Context Modeling with Maximal Margin Conditional Random Fields for Automatic Image Annotation

Chuang, Hui-Ju

Workshop: Learning Spatial Weighting via Quadratic Programming for Facial Expression Analysis

Chum, Ondřej

Unsupervised Discovery of Co-occurrence in Sparse High Dimensional Data

Chunev, Georgi

Demo: Real Time Lightfield Rendering Using GPUs

Chung, Albert C. S.

A Novel Markov Random Field Based Deformable Model for Face Recognition

Chung, Howard

Demo: User Guided MRI Segmentation: Balancing User Interaction and Automatic Segmentation

Cipolla, Roberto

Label Propagation in Video Sequences

Workshop: Online Multiple Classifier Boosting for Object Tracking

Cipriani, Patricia G.

Rapid and Accurate Developmental Stage Recognition of *C. elegans* from High-throughput Image Data

Ciptadi, Arridhana

Estimating Camera Pose from a Single Urban Ground-View Omnidirectional Image and a 2D Building Outline Map

Clark, James J.

Workshop: Gender Classification from Unconstrained Video Sequences

Clipp, Brian

Demo: Real-Time Wide Area Visual SLAM

Demo: Dense Reconstruction from Millions of Images on a Single PC

Cobzas, Dana

Demo: User Guided MRI Segmentation: Balancing User Interaction and Automatic Segmentation

Workshop: Stability Effects of Finite Difference Methods on a Mathematical Tumor Growth Model

Cohen, Fernand

Workshop: Virtual Reconstruction of Archaeological Vessels using Expert Priors & Surface Markings

Workshop: Virtual Reconstruction of Archaeological Vessels using Convex Hulls of Surface Markings

Cohen, Scott

Geodesic Graph Cut for Interactive Image Segmentation

Simultaneous Foreground, Background, and Alpha Estimation for Image Matting

Cohn, Jeffrey F.

Unsupervised Discovery of Facial Events

Action Unit Detection with Segment-based SVMs

Workshop: The Extended Cohn-Kanade Dataset (CK+): A Complete Dataset for Action Unit and Emotion-specified Expression

Collet, Alvaro

Making Specific Features Less Discriminative to Improve Point-based 3D Object Recognition

Collette, Sylvie Naudet

Real-Time Vehicle Global Localisation with a Single Camera in Dense Urban Areas: Exploitation of Coarse 3D City Models

Collins, Robert T.

Data Driven Mean-Shift Belief Propagation For non-Gaussian MRFs

Colombari, Andrea

Workshop: FPGA-Based Robust Ellipse Estimation for Circular Road Sign Detection

Colomina, Luis Ferraz

Workshop: Concealed Object Detection and Segmentation over Millimetric Waves Images

Comaniciu, Dorin

Search Strategies for Multiple Landmark Detection by Submodular Maximization

Multiple Object Detection by Sequential Monte Carlo and Hierarchical Detection Network

Connor, Barry

Workshop: Contextual Smoothing of Image Segmentation

Cooper, David B.

Ray Markov Random Fields for Image-Based 3D Modeling: Model and Efficient Inference

Cooper, David

Workshop: REVEAL Intermediate Report

Cooper, Lee

Workshop: Two-Point Correlation as a Feature for Histology Images: Feature Space Structure and Correlation Updating

Cossairt, Oliver

Depth from Diffusion

Cottrell, Garrison

Robust Classification of Objects, Faces, and Flowers Using Natural Image Statistics

Cour, Timothee

Talking Pictures: Temporal Grouping and Dialog-Supervised Person Recognition

Covell, Michele

Demo: Google Image Swirl: A Large-Scale Content-Based Image Browsing System

Coviello, Emanuele

Clustering Dynamic Textures with the Hierarchical EM Algorithm

Cremers, Daniel

An Approach to Vectorial Total Variation based on Geometric Measure Theory

Criminisi, Antonio

Geodesic Star Convexity for Interactive Image Segmentation

Cristani, Marco

Person Re-Identification by Symmetry-Driven Accumulation of Local Features

Workshop: Socially Intelligent Surveillance and Monitoring: Analysing Social Dimensions of Physical Space

Crowley, James L.

Workshop: Tensor-Jet: A Tensorial Representation of Local Binary Gaussian Jet Maps

Cucchiara, Rita

Workshop: People Trajectory Mining with Statistical Pattern Recognition

Workshop: Perspective and Appearance Context for People Surveillance in Open Areas

Workshop: Event Driven Software Architecture for Multi-camera and Distributed Surveillance Research Systems

Cui, Jinshi

An Online Approach: Learning-Semantic-Scene-by-Tracking and Tracking-by-Learning-Semantic-Scene

Cui, Yan

3D Shape Scanning with a Time-of-Flight Camera

Curio, Cristóbal

Workshop: Shape Centered Interest Points for Feature Grouping

Curless, Brian

Towards Internet-scale Multi-view Stereo

Cutler, Barbara

Workshop: Dynamic Projection Environments for Immersive Visualization

D

Dai, Dengxin

Discovering Scene Categories by Information Projection and Cluster Sampling

Daniilidis, Kostas

Object Detection via Boundary Structure Segmentation

Workshop: Video-based Localization for the Visually Impaired Without 3D Mapping

Das, Ananya

Workshop: Synthesis of Stereoscopic Views from Monocular Endoscopic Videos

Datta, Ankur

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Davatzikos, Christos

Workshop: Groupwise Morphometric Analysis Based on High Dimensional Clustering

Workshop: An EM Algorithm for Brain Tumor Image Registration: A Tumor Growth Modeling Based Approach

Workshop: Learning High-dimensional Image Statistics for Abnormality Detection on Medical Images

Workshop: Application of Trace-Norm and Low-Rank Matrix Decomposition for Computational Anatomy

Davis, James

Workshop: The HPU

Davison, Andrew J.

Live Dense Reconstruction with a Single Moving Camera

Scalable Active Matching

Demo: Live Dense Reconstruction with a Single Moving Camera

de Campos, Teófilo

Unified Graph Matching in Euclidean Spaces

De la Torre, Fernando

Unsupervised Discovery of Facial Events

Pareto Discriminant Analysis

Action Unit Detection with Segment-based SVMs

De Leo, Carter

Workshop: Design and Implementation of a Wide Area, Large-Scale Camera Network

de Mantaras, Ramon Lopez

Fast and Robust Object Segmentation with the Integral Linear Classifier

Demo: Fast and Robust Object Segmentation with the Integral Linear Classifier

De Marsico, Maria

Workshop: HERO: Human Ear Recognition against Occlusions

Dean, Emmanuel

Demo: The OpenTL Framework for Model-based Visual Tracking

Del Bimbo, Alberto

Workshop: Device-Tagged Feature-based Localization and Mapping of Wide Areas with a PTZ Camera

Dellaert, Frank

Probabilistic Temporal Inference on Reconstructed 3D Scenes

Delmerico, Jeffrey A.

Demo: Armchair Interface: Computer Vision for General HCI

DeLong, Andrew

Fast Approximate Energy Minimization with Label Costs

Demirkus, Meltem

Workshop: Gender Classification from Unconstrained Video Sequences

Denk, Winfried

Boundary Learning by Optimization with Topological Constraints

Derpanis, Konstantinos G.

Dynamic Texture Recognition Based on Distributions of Spacetime Oriented Structure
Efficient Action Spotting Based on a Spacetime Oriented Structure Representation

Desai, Chaitanya

Workshop: Discriminative Models for Static Human-object Interactions

Deselaers, Thomas

What is an Object?

Global and Efficient Self-Similarity for Object Classification and Detection

Deshpande, Alok

Denoising vs. Deblurring: HDR Imaging Techniques Using Moving Cameras

Dhome, Michel

Real-Time Vehicle Global Localisation with a Single Camera in Dense Urban Areas: Exploitation of Coarse 3D City Models

Dialameh, Orang

Workshop: LookTel—A Comprehensive Platform for Computer-Aided Visual Assistance

Dickinson, Patrick

Workshop: Binary Histogram based Split/Merge Object Detection using FPGAs

Dinerstein, Michael

The Chains Model for Detecting Parts by their Context

Ding, Zhaohua

A Novel Riemannian Framework for Shape Analysis of 3D Objects

Doersch, Carl

Improving State-of-the-Art OCR through High-Precision Document-Specific Modeling

Dolce, Andrew

Workshop: Dynamic Projection Environments for Immersive Visualization

Doll, Konrad

Workshop: FPGA-GPU Architecture for Kernel SVM Pedestrian Detection

Dollár, Piotr

Cascaded Pose Regression

Dolson, Jennifer

Upsampling Range Data in Dynamic Environments

Donate, Arturo

Workshop: Shot Boundary Detection in Videos Using Robust Three-Dimensional Tracking

Workshop: 3D Structure Estimation from Monocular Video Clips

Donoser, Michael

Linked Edges as Stable Region Boundaries

Dorcey, Tim

Workshop: LookTel—A Comprehensive Platform for Computer-Aided Visual Assistance

Doretto, Gianfranco

Region Moments: Fast invariant descriptors for detecting small image structures

Boosting for Transfer Learning with Multiple Sources

Dorin, Comaniciu

Lymph Node Detection in 3-D Chest CT using a Spatial Prior Probability

Dorizzi, Bernadette

Workshop: Obtaining Cryptographic Keys Using Feature Level Fusion of Iris and Face Biometrics for Secure User Authentication

Dornaika, Fadi

Workshop: Single Snapshot-Based 3D Head Pose Initialization for Tracking in an HRI Scenario

Dorrnsoro, Carlos

Workshop: Concealed Object Detection and Segmentation over Millimetric Waves Images

Dorsey, Julie

Workshop: An Integrated Image and Sketching Environment for Archaeological Sites

Doshi, Anup

Workshop: Attention Estimation by Simultaneous Observation of Viewer and View

Doutre, Will

REVEAL Intermediate Report

Douze, Matthijs

Aggregating Local Descriptors into a Compact Image Representation

Demo: Aggregating Descriptors to Index 10 Million Images on a Laptop

Draper, Bruce A.

Visual Object Tracking using Adaptive Correlation Filters

Workshop: Quantifying How Lighting and Focus Affect Face Recognition Performance

Draréni, Jamil

Workshop: Fast Probabilistic Estimation of Egomotion From Image Intensities.

Drost, Bertram

Model Globally, Match Locally: Efficient and Robust 3D Object Recognition

Drouin, Marc-Antoine

Workshop: Camera-Projector Matching Using an Unstructured Video Stream

Drozdal, Michal

Workshop: Aligning Endoluminal Scene Sequences in Wireless Capsule Endoscopy

Duan, Chih-Hsueh

Workshop: Learning Spatial Weighting via Quadratic Programming for Facial Expression Analysis

Duan, Lixin

Visual Event Recognition in Videos by Learning from Web Data

Duin, Robert

Spherical Embeddings for non-Euclidean Dissimilarities

Duncan, James

Workshop: Constrained Non-rigid Registration Using Lagrange Multipliers for Application in Prostate Radiotherapy

Dunlop, Heather

Workshop: Scene Classification of Images and Video via Semantic Segmentation

Dunn, Enrique

Demo: Dense Reconstruction from Millions of Images on a Single PC

Duraiswami, Ramani

Demo: Audio-Visual Panoramas

Durand, Fredo

Linear View Synthesis Using a Dimensionality Gap Light Field Prior

Durand, Frédo

Noise-Optimal Capture for High Dynamic Range Photography

E**Ecker, Ady**

Polynomial Shape from Shading

Eger, Evelyn

Workshop: A Supervised Clustering Approach for Extracting Predictive Information from Brain Activation Images

Ehinger, Krista A.

SUN Database: Large Scale Scene Recognition from Abbey to Zoo

Eigenstetter, Angela

Multi-Cue Pedestrian Classification With Partial Occlusion Handling

El Kaliouby, Rana

Workshop: Affect Valence Inference From Facial Action Unit Spectrograms

El-Gloroury, Hussein S.

Workshop: Display Gamut Reshaping for Color Emulation and Balancing

El-Zehiry, Noha Youssry

Fast Global Optimization of Curvature

Elder, James H.

On Growth and Formlets: Sparse Multi-Scale Coding of Planar Shape

Workshop: Design and Perceptual Validation of Performance Measures for Salient Object Segmentation

Elgammal, Ahmed

One-Shot Multi-Set Non-rigid Feature-Spatial Matching

Putting Local Features on a Manifold

Emmanuel, Kondela Solo

Workshop: Automatic Seamless Video Mosaic from Webcams using LSF Techniques

Endres, Ian

Attribute-Centric Recognition for Cross-category Generalization

Workshop: The Benefits and Challenges of Collecting Richer Object Annotations

Engel, David

Workshop: Shape Centered Interest Points for Feature Grouping

Engelke, Tobias

Workshop: A Census-Based Stereo Vision Algorithm Using Modified Semi-Global Matching and Plane Fitting to Improve Matching Quality

Enzweiler, Markus

Integrated Pedestrian Classification and Orientation Estimation

Multi-Cue Pedestrian Classification With Partial Occlusion Handling

Epshtein, Boris

Detecting Text in Natural Scenes with Stroke Width Transform

Eriksson, Anders

Outlier Removal Using Duality

Efficient Computation of Robust Low-Rank Matrix Approximations in the Presence of Missing Data using the L1 Norm

Eruhimov, Victor

Demo: OpenCV on NVidia Stereoids

Erus, Guray

Workshop: Learning High-dimensional Image Statistics for Abnormality Detection on Medical Images

Escalera, Sergio

Workshop: Spatio-Temporal GrabCut Human Segmentation for Face and Pose Recovery

Eskin, Yulia

Workshop: Automatic Segmentation of Video to Aid the Study of Faucet Usability for Older Adults

Ess, Andreas

Workshop: Wrong Turn – No Dead End: a Stochastic Pedestrian Motion Model

Essa, Irfan

Motion Fields to Predict Play Evolution in Dynamic Sport Scenes

Discontinuous Seam-Carving for Video Retargeting

Player Localization Using Multiple Static Cameras for Sports Visualization

Efficient Hierarchical Graph-Based Video Segmentation

Estaban, Carlos Hernández

Demo: Video-based, Real-Time Multi View Stereo

Estrin, Deborah

Warping Background Subtraction

Eubanks, Dana

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Exner, David

Workshop: Fast and Robust CAMShift Tracking

F

Fabbri, Ricardo

3D Curve Sketch: Flexible Curve-Based Stereo Reconstruction and Calibration

Fan, Bin

Line Matching Leveraged By Point Correspondences

Fan, Jianping

Harvesting Large-Scale Weakly-Tagged Image Databases from the Web

Workshop: Detecting Intended Human Objects in Human-Captured Videos

Fan, Na

Learning from Interpolated Images using Neural Networks for Digital Forensics

Fan, Quanfu

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Fang, Bing

Workshop: Using a Vision Based Tracking to Support Real-Time Graphical Instruction for Student Who Have Visual Impairments

Fang, Tian

Rectilinear Parsing of Architecture in Urban Environment

Farenzena, Michela

Improving the Efficiency of Hierarchical Structure-and-Motion

Person Re-Identification by Symmetry-Driven Accumulation of Local Features

Farhadi, Ali

Attribute-Centric Recognition for Cross-category Generalization

Workshop: The Benefits and Challenges of Collecting Richer Object Annotations

Favaro, Paolo

Recovering Thin Structures via Nonlocal-Means Regularization with Application to Depth from Defocus

Fears, Scott

Metric-Induced Optimal Embedding for Intrinsic 3D Shape Analysis

Fei-Fei, Li

Efficient Extraction of Human Motion Volumes by Tracking

Building and Using a Semantivisual Image Hierarchy

Grouplet: A Structured Image Representation for Recognizing Human and Object Interactions

Modeling Mutual Context of Object and Human Pose in Human-Object Interaction Activities

Connecting Modalities: Semi-supervised Segmentation and Annotation of Images Using Unaligned Text Corpora

Felzenszwalb, Pedro F.

Globally Optimal Pixel Labeling Algorithms for Tree Metrics

Cascade Object Detection with Deformable Part Models

Tiered Scene Labeling with Dynamic Programming

Fergus, Rob

Deconvolutional Networks

Feris, Rogerio

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Fermuller, Cornelia

Learning Shift-Invariant Sparse Representation of Actions

Fernandez, Sergio

Workshop: Absolute Phase Mapping for One-shot Dense Pattern Projection

Ferrari, Vittorio

What is an Object?

Global and Efficient Self-Similarity for Object Classification and Detection

What's going on? Discovering Spatio-Temporal Dependencies in Dynamic Scenes

Ferrie, Frank P.

Pareto Discriminant Analysis

Fetter, Richard

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Feulner, Johannes

Lymph Node Detection in 3-D Chest CT using a Spatial Prior Probability

Fierrez, Julian

Workshop: Scenario-Based Score Fusion for Face Recognition at a Distance

Fisher, John

Modeling and Estimating Persistent Motion with Geometric Flows

Fitzgibbon, Andrew

Finding Nemo: Deformable Object Class Modelling using Curve Matching

Fleet, David J.

Dynamical Binary Latent Variable Models for 3D Human Pose Tracking

Fleuret, François

Delineating Trees in Noisy 2D Images and 3D Image-Stacks

Flint, Alexander

Growing Semantically Meaningful Models for Visual SLAM

Flores, Arturo

Workshop: Removing Pedestrians from Google Street View Images

Flynn, Patrick J.

Workshop: Similarity of Iris Texture between Identical Twins

Fornoni, Marco

Workshop: OM-2: An Online Multi-class Multi-kernel Learning Algorithm

Forssén, Per-Erik

Rectifying Rolling Shutter Video from Hand-held Devices

Forsyth, David A.

Workshop: The Benefits and Challenges of Collecting Richer Object Annotations

Forsyth, David

Comparative Object Similarity for Improved Recognition with Few or No Examples

Forte, Maurizio

Workshop: Teleimmersive 3D Collaborative Environment for Cyberarchaeology

Foucher, Samuel

Workshop: Computer-Vision-Assisted System for Videodescription Scripting

Fowlkes, Charless

Covering Trees and Lower-bounds on Quadratic Assignment

Layered Object Detection for Multi-Class Segmentation

Workshop: Discriminative Models for Static Human-object Interactions

Frahm, Jan-Michael

Demo: Real-Time Wide Area Visual SLAM

Demo: Dense Reconstruction from Millions of Images on a Single PC

Franco, Jean-Sébastien

Probabilistic 3D Occupancy Flow with Latent Silhouette Cues

Fransen, Benjamin R.

Workshop: Integrating Vision for Human-Robot Interaction

Freedman, Daniel

Object-to-Object Color Transfer: Optimal Flows and SMSP Transformations

Freeman, William T.

A Content-Aware Image Prior

A Probabilistic Image Jigsaw Puzzle Solver

Noise-Optimal Capture for High Dynamic Range Photography

Analyzing Spatially-varying Blur

Latent Hierarchical Structural Learning for Object Detection

Part and Appearance Sharing: Recursive Compositional Models for Multi-View Multi-Object Detection

Freifeld, Oren

Contour People: A Parameterized Model of 2D Articulated Human Shape

Freund, Ziv

An Eye for an Eye: A Single Camera Gaze-Replacement Method

Friedlhuber, Thomas

Demo: The OpenTL Framework for Model-based Visual Tracking

Friedman, Yuli

Workshop: Appearance-based Object Reacquisition for Mobile Manipulation

Fu, Xingdou

Reconstruction of Display and Eyes from a Single Image

Fu, Yun

Bimodal Gender Recognition from Face and Fingerprint

Workshop: A Robust Framework for Multiview Age Estimation

Fua, Pascal

Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Delineating Trees in Noisy 2D Images and 3D Image-Stacks

Dynamic and Scalable Large Scale Image Reconstruction

Simultaneous Pose, Correspondence and Non-Rigid Shape

Pareto-optimal Dictionaries for Signatures

Simultaneous Point Matching and 3D Deformable Surface Reconstruction

Demo: Demonstration: Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Fuchs, Thomas

Neuron Geometry Extraction by Perceptual Grouping in ssTEM Images

Fujiyoshi, Hironobu

Workshop: Feature Co-occurrence Representation Based on Boosting for Object Detection

Furukawa, Ryo

Workshop: One-shot Scanning Method using an Uncalibrated Projector and Camera System

Furukawa, Yasutaka

Towards Internet-scale Multi-view Stereo

Fusiello, Andrea

Improving the Efficiency of Hierarchical Structure-and-Motion

G

Gagnon, Langis

Workshop: Computer-Vision-Assisted System for Videodescription Scripting

Galasso, Fabio

Label Propagation in Video Sequences

Gall, Juergen

An Object-Dependent Hand Pose Prior from Sparse Training Data

A Hough Transform-Based Voting Framework for Action Recognition

Gallagher, Andrew C.

Beyond Trees: MRF Inference via Outer-Planar Decomposition

Galleguillos, Carolina

Multi-Class Object Localization by Combining Local Contextual Interactions

Gallo, Orazio

Workshop: The HPU

Gallup, David

Demo: Dense Reconstruction from Millions of Images on a Single PC

Galor, Katarina

Workshop: REVEAL Intermediate Report

Galor, Katharina

Workshop: Estimating Gothic Facade Architecture from Imagery

Galun, Meirav

Detecting and Sketching the Common

Gammeter, Stephan

Workshop: Server-side Object Recognition and Client-side Object Tracking for Mobile Augmented Reality

Ganapathi, Varun

Real Time Motion Capture using a Single Time-Of-Flight Camera

Ganesh, Arvind

RASL: Robust Alignment by Sparse and Low-rank Decomposition for Linearly Correlated Images

Gangl, Alfred

Workshop: Predicting the Histology of Colorectal Lesions in a Probabilistic Framework

Gao, Qi

A Generative Perspective on MRFs in Low-Level Vision

Gao, Shenghua

Local Features Are Not Lonely - Laplacian Sparse Coding for Image Classification

Gao, Wen

Measuring Visual Saliency by Site Entropy Rate

Visual Tracking via Weakly Supervised Learning from Multiple Imperfect Oracles

Towards Semantic Embedding in Visual Vocabulary
Novel Observation Model for Probabilistic Object Tracking
Adaptive Generic Learning for Face Recognition from a Single Sample per Person

Gao, Yang

Fast Polygonal Integration and Its Application in Extending Haar-like Features to Improve Object Detection

Gao, Yuli

Harvesting Large-Scale Weakly-Tagged Image Databases from the Web

Garcia, Ricardo R.

Workshop: Selection of Temporally Dithered Codes for Increasing Virtual Depth of Field in Structured Light Systems

Garvin, Mona

Simultaneous Searching of Globally Optimal Interacting Surfaces with Shape Priors

Gassmann, Alexander

Workshop: Server-side Object Recognition and Client-side Object Tracking for Mobile Augmented Reality

Gast, Jürgen

Workshop: A Graphical Model for Unifying Tracking and Classification within a Multimodal Human-Robot Interaction Scenario

Gat, Yoram

Workshop: Fusing Image Data with Location and Orientation Sensor Data Streams for Consumer Video Applications

Gavrila, Dariu M.

Integrated Pedestrian Classification and Orientation Estimation
Multi-Cue Pedestrian Classification With Partial Occlusion Handling

Gay, Ebenezer

Workshop: REVEAL Intermediate Report

Geary, Bobby

Workshop: Image Quality Assessment Using a Rotated Gaussian Discrimination Function

Gee, James C.

Estimation of Image Bias Field with Sparsity Constraints

Gehrig, Stefan K.

Workshop: Real-Time Semi-Global Matching on the CPU

Geiger, Davi

Rapid and Accurate Developmental Stage Recognition of *C. elegans* from High-throughput Image Data

Gelautz, Margrit

A Spatially Varying PSF-based Prior for Alpha Matting

Gelfand, Natasha

Image Webs: Computing and Exploiting Connectivity in Image Collections

Geng, Bo

Content-Aware Ranking for Visual Search

Genkin, Alex V.

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Georgel, Pierre Fite

Demo: Dense Reconstruction from Millions of Images on a Single PC

Georgiev, Todor

Demo: Real Time Lightfield Rendering Using GPUs

Gerónimo, David

Learning Appearance in Virtual Scenarios for Pedestrian Detection

Gevers, Theo

3D Scene Priors for Road Detection

Gherardi, Riccardo

Improving the Efficiency of Hierarchical Structure-and-Motion

Ghosh, Pratim

Generalized Simultaneous Registration and Segmentation

Gimeno, Roger

DARTs: Efficient scale-space extraction of DAISY keypoints

Girod, Bernd

Unified Real-Time Tracking and Recognition with Rotation-Invariant Fast Features

Demo: Unified Tracking and Recognition with Rotation-Invariant Fast Features

Workshop: Quantization Schemes for Low Bitrate Compressed Histogram of Gradient Descriptors

Girshick, Ross B.

Cascade Object Detection with Deformable Part Models

Givens, Geof H.

Workshop: Quantifying How Lighting and Focus Affect Face Recognition Performance

Gleicher, Michael

Warp Propagation for Video Resizing

Goac, Xavier

Admissible Linear Map Models of Linear Cameras

Godec, Martin

Online Multi-Class LPBoost

Workshop: Context-driven Clustering by Multi-class Classification in an Active Learning Framework

Workshop: TransientBoost: On-line Boosting with Transient Data

Goferman, Stas

Context-Aware Saliency Detection

Gokturk, Salih

Workshop: An Efficient Fashion-driven Learning Approach to Model User Preferences in On-Line Shopping Scenarios

Goldluecke, Bastian

An Approach to Vectorial Total Variation based on Geometric Measure Theory

Golland, Polina

Workshop: Nonparametric Hierarchical Bayesian Model for Functional Brain Parcellation

Workshop: Robust Feature Selection in Resting-State fMRI Connectivity Based on Population Studies

Gómez, Ignacio

Workshop: Concealed Object Detection and Segmentation over Millimetric Waves Images

Gong, Yihong

Locality-constrained Linear Coding for Image Classification

González, Germán

Delineating Trees in Noisy 2D Images and 3D Image-Stacks

Gooya, Ali

Workshop: An EM Algorithm for Brain Tumor Image Registration: A Tumor Growth Modeling Based Approach

Workshop: Application of Trace-Norm and Low-Rank Matrix Decomposition for Computational Anatomy

Gould, Stephen

Single Image Depth Estimation From Predicted Semantic Labels

Govindaraju, Venu

Workshop: Syntactic Image Parsing using Ontology and Semantic Descriptions

Grabner, Helmut

Exploiting Simple Hierarchies for Unsupervised Human Behavior Analysis

Tracking the Invisible: Learning Where the Object Might be

Grady, Leo

Fast Global Optimization of Curvature

Grafton, Scott

Anatomical Parts-Based Regression Using Non-Negative Matrix Factorization

Graham, Jamey

Demo: Mobile Visual Search, Linking Printed Documents to Digital Media

Granados, Miguel

Optimal HDR Reconstruction with Linear Digital Cameras

Grauman, Kristen

Object-Graphs for Context-Aware Category Discovery

Reading Between The Lines: Object Localization Using Implicit Cues from Image Tags

Far-Sighted Active Learning on a Budget for Image and Video Recognition

Collect-Cut: Segmentation with Top-Down Cues Discovered in Multi-Object Images

Learning a Hierarchy of Discriminative Space-Time Neighborhood Features for Human Action

Recognition

Asymmetric Region-to-Image Matching for Comparing Images with Generic Object Categories

Workshop: Top-Down Pairwise Potentials for Piecing Together Multi-Class Segmentation Puzzles

Grecos, Christos

Workshop: Image Quality Assessment Using a Rotated Gaussian Discrimination Function

Greenspan, Hayit

Shape-based Similarity Retrieval of Doppler Images for Clinical Decision Support

Greenspan, Michael

Workshop: Projector Optical Distortion Calibration Using Gray Code Patterns

Grimson, Eric

Modeling and Estimating Persistent Motion with Geometric Flows

Gruev, Viktor

Demo: Real-time Polarization Imaging at 1 Megapixel Resolution

Grundhöfer, Anselm

Workshop: Fast and Robust CAMShift Tracking

Grundmann, Matthias

Motion Fields to Predict Play Evolution in Dynamic Sport Scenes

Discontinuous Seam-Carving for Video Retargeting

Player Localization Using Multiple Static Cameras for Sports Visualization

Efficient Hierarchical Graph-Based Video Segmentation

Grzeszczuk, Radek

Unified Real-Time Tracking and Recognition with Rotation-Invariant Fast Features

Demo: Unified Tracking and Recognition with Rotation-Invariant Fast Features

Workshop: Quantization Schemes for Low Bitrate Compressed Histogram of Gradient Descriptors

Gu, Chunhui

Figure-Ground Segmentation Improves Handled Object Recognition in Egocentric Video

Gu, Xianfeng

Dense Non-rigid Surface Registration Using High-Order Graph Matching

Compression of Surface Registrations using Beltrami Coefficients

Gual, Joan Serrat

Harmony Potentials for Joint Classification and Segmentation

Gualdi, Giovanni

Workshop: Perspective and Appearance Context for People Surveillance in Open Areas

Guan, Li

Probabilistic 3D Occupancy Flow with Latent Silhouette Cues

Guarisco, Michael

Workshop: Dynamically Reconfigurable Architecture for Real Time Adaptation of H264/AVC-SVC Video Streams

Guibas, Leonidas J.

Image Webs: Computing and Exploiting Connectivity in Image Collections

Guillaumin, Matthieu

Multimodal Semi-supervised Learning for Image Classification

Gulshan, Varun

Geodesic Star Convexity for Interactive Image Segmentation

Gunsalus, Kristin C.

Rapid and Accurate Developmental Stage Recognition of *C. elegans* from High-throughput Image Data

Guo, Dong

Correcting Over-Exposure in Photographs

Robust Flash Deblurring

Guo, Feng

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Guo, Guodong

Workshop: Human Age Estimation: What is the Influence Across Race and Gender?

Workshop: A Study of Large-Scale Ethnicity Estimation with Gender and Age Variations

Guo, Kuangye

Workshop: Annotation and Taxonomy of Gestures in Lecture Videos

Guo, Lei

Workshop: Direction Field Diffusion on Cortical Surface via Graph Cuts

Guo, Zhenhua

The Multiscale Competitive Code via Sparse Representation for Palmprint Verification

Gupta, Abhinav

Beyond Active Noun Tagging: Modeling Contextual Interactions for Multi-Class Active Learning

Gupta, Mohit

Optimal Coded Sampling for Temporal Super-Resolution

Gupta, Raj

Robust Order-based Methods for Feature Description

Gupta, Vishwa

Workshop: Computer-Vision-Assisted System for Videodescription Scripting

Gurevych, Iryna

What Helps Where - And Why? Semantic Relatedness for Knowledge Transfer

Guyenne, Philippe

Recovering Fluid-type Motions Using Navier-Stokes Potential Flow

H

Haering, Niels

Workshop: Traffic Analysis with Low Frame Rate Camera Networks

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Häfner, Michael

Workshop: Predicting the Histology of Colorectal Lesions in a Probabilistic Framework

Hakeem, Asaad

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Hallman, Sam

Layered Object Detection for Multi-Class Segmentation

Hamarneh, Ghassan

Group MRF for fMRI Activation Detection

Vessel Scale Selection using MRF Optimization

Workshop: Graph-based Tracking of Tongue Contour in Ultrasound Sequences with Adaptive Temporal Regularization

Hamer, Henning

An Object-Dependent Hand Pose Prior from Sparse Training Data

Hamid, Raffay

Player Localization Using Multiple Static Cameras for Sports Visualization

Hamilton, Harley

Workshop: A Novel Approach to American Sign Language (ASL) Phrase Verification using Reversed Signing

Hampapur, Arun

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Han, Bohyung

Efficient Extraction of Human Motion Volumes by Tracking

Han, Feng

Vehicle Detection and Tracking in Wide Field-of-View Aerial Video

Han, Mei

Discontinuous Seam-Carving for Video Retargeting

Efficient Hierarchical Graph-Based Video Segmentation

Han, Song

Removal of 3D Face Expressions: A Learning-based Approach

Hanasusanto, Grani A.

Ink-Bleed Reduction Using Functional Minimization

Hancock, Edwin R.

Spherical Embeddings for non-Euclidean Dissimilarities

Hancock, Edwin

Shape and Refractive Index Recovery from Single-View Polarisation Images

Handa, Ankur

Scalable Active Matching

Haner, Sebastian

Workshop: A Step Towards Self-calibration in SLAM: Weakly Calibrated On-line Structure and Motion Estimation

Hanheide, Marc

Workshop: Facial Expressions as Feedback Cue in Human–Robot Interaction — A Comparison between Human and Automatic Recognition Performances

Harada, Tatsuya

Global Gaussian Approach for Scene Categorization Using Information Geometry

Harari, Daniel

The Chains Model for Detecting Parts by their Context

Harmeling, Stefan

Efficient Filter Flow for Space-Variant Multiframe Blind Deconvolution

Harris, Kristen M.

Boundary Learning by Optimization with Topological Constraints

Hartl, Andreas

Workshop: Instant Segmentation and Feature Extraction for Recognition of Simple Objects on Mobile Phones

Hartley, Richard

Outlier Removal Using Duality

Hartung, Lance

Scene Understanding by Statistical Modeling of Motion Patterns

Hasinoff, Samuel W.

Noise-Optimal Capture for High Dynamic Range Photography

Hasler, Nils

Multilinear Pose and Body Shape Estimation of Dressed Subjects from Image Sets

Hayden, David S.

Workshop: The Note-Taker: An Assistive Technology That Allows Students Who Are Legally Blind to Take Notes in the Classroom

Hays, James

SUN Database: Large Scale Scene Recognition from Abbey to Zoo

Hayworth, Ken J.

Boundary Learning by Optimization with Topological Constraints

He, Kaiming

Fast Matting Using Large Kernel Matting Laplacian Matrices

He, Lei

Object Matching with a Locally Affine-Invariant Constraint

He, Yu

Workshop: An Integrated Image and Sketching Environment for Archaeological Sites

Heath, Kyle

Image Webs: Computing and Exploiting Connectivity in Image Collections

Hebert, Martial

Making Specific Features Less Discriminative to Improve Point-based 3D Object Recognition

Heidrich, Wolfgang

A Theory of Plenoptic Multiplexing

Sensor Saturation in Fourier Multiplexed Imaging

Heitz, Jeremy

Object Separation In X-Ray Image Sets

Helistekangas, Mika

Demo: MOBIO: Mobile Biometric Face and Speaker Authentication

Helmstaedter, Moritz H.

Boundary Learning by Optimization with Topological Constraints

Helten, Thomas

Multisensor-Fusion for 3D Full-Body Human Motion Capture

Hendriks, Emile

Workshop: Capturing Appearance Variation in Active Appearance Models

Henríquez, Pedro

Morphological Snakes

Héritier, Maguelonne

Workshop: Computer-Vision-Assisted System for Videodescription Scripting

Hernández, Antonio

Workshop: Spatio-Temporal GrabCut Human Segmentation for Face and Pose Recovery

Hernandez, John A. Ruiz

Workshop: Tensor-Jet: A Tensorial Representation of Local Binary Gaussian Jet Maps

Herwana, Cipta

Workshop: Annotation and Taxonomy of Gestures in Lecture Videos

Hess, Harald

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Heyden, Anders

Workshop: A Step Towards Self-calibration in SLAM: Weakly Calibrated On-line Structure and Motion Estimation

Hiep, Vu Hoang

Hybrid Multi-view Reconstruction by Jump-Diffusion

Higo, Tomoaki

Consensus Photometric Stereo

Hinrichs, Chris

Learning Kernels for Variants of Normalized Cuts: Convex Relaxations and Applications

Hinterstoisser, Stefan

Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Rapid Selection of Reliable Templates for Visual Tracking

Demo: Demonstration: Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Hinton, Geoffrey E.

Dynamical Binary Latent Variable Models for 3D Human Pose Tracking

Modeling Pixel Means and Covariances Using Factorized Third-Order Boltzmann Machines

Hinz, Stefan

Workshop: Airborne Analysis and Assessment of Urban Traffic Scenes from LiDAR Data – Theory and Experiments

Hirose, Shun

Surface Color Estimation Based on Inter- and Intra-Pixel Relationships in Outdoor Scenes

Hirsch, Michael

Efficient Filter Flow for Space-Variant Multiframe Blind Deconvolution

Ho, Jeffrey

Image Atlas Construction via Intrinsic Averaging on the Manifold of Images

Hoang, Viet-Dung D.

Fast Polygonal Integration and Its Application in Extending Haar-like Features to Improve Object Detection

Hodgins, Jessica

Motion Fields to Predict Play Evolution in Dynamic Sport Scenes

Player Localization Using Multiple Static Cameras for Sports Visualization

Hofmann, Martin

Workshop: Dense Spatio-Temporal Motion Segmentation for Tracking Multiple Self-Occluding People

Hogan, James

Refinement of Digital Elevation Models from Shadowing Cues

Hoiem, Derek

Comparative Object Similarity for Improved Recognition with Few or No Examples

Attribute-Centric Recognition for Cross-category Generalization

Workshop: The Benefits and Challenges of Collecting Richer Object Annotations

Hollingsworth, Karen

Workshop: Similarity of Iris Texture between Identical Twins

Holzer, Stefan

Adaptive Linear Predictors for Real-Time Tracking

Hong, Yi

Workshop: Sparse Semi-Supervised Learning for Perceptual Grouping

Hontani, Hidekata

Point-Based Non-Rigid Surface Registration with Accuracy Estimation

Hoque, Mohammed E.

Demo: I-See-You: Robust Recognition of Facial Expressions and Speech Prosody in Real Time

Hornegger, Joachim

Lymph Node Detection in 3-D Chest CT using a Spatial Prior Probability

Model-Based Respiratory Motion Compensation for Image-Guided Cardiac Interventions

Hou, Tingbo

Workshop: Active Lighting Learning for 3D Model Based Vehicle Tracking

Hou, Weilin

Workshop: Feature Matching In Underwater Environments Using Sparse Linear Combinations

Hsiao, Edward

Making Specific Features Less Discriminative to Improve Point-based 3D Object Recognition

Hsieh, Po-Jang

Workshop: Nonparametric Hierarchical Bayesian Model for Functional Brain Parcellation

Hu, Han

Trajectory Matching from Unsynchronized Videos

Hu, Weiming

Use Bin-Ratio Information for Category and Scene Classification

Workshop: A Swarm Intelligence Based Searching Strategy for Articulated 3D Human Body Tracking

Hu, Wenze

Learning a Probabilistic Model Mixing 3D and 2D Primitives for View Invariant Object Recognition

Hu, Xiaoyan

Evaluation of Stereo Confidence Indoors and Outdoors

Hu, Yiqun

Hybrid Shift Map for Video Retargeting

Hu, Zhanyi

Line Matching Leveraged By Point Correspondences

Hua, Gang

Interest Seam Image

Hua, Xian-Sheng

Optimizing kd-trees for Scalable Visual Descriptor Indexing

Content-Aware Ranking for Visual Search

Compact Projection: Simple and Efficient Near Neighbor Search with Practical Memory Requirements

Huang, Chang

High Performance Object Detection by Collaborative Learning of Joint Ranking of Granule Features

Multi-Target Tracking by On-Line Learned Discriminative Appearance Models

Huang, Dong Jun

Workshop: Automatic Seamless Video Mosaic from Webcams using LSF Techniques

Huang, Gary B.

Workshop: Learning Class-Specific Image Transformations with Higher-Order Boltzmann Machines

Huang, Gary

Improving State-of-the-Art OCR through High-Precision Document-Specific Modeling

Huang, Jia-Bin

Fast Sparse Representation with Prototypes

Huang, Junzhou

Automatic Image Annotation Using Group Sparsity

Huang, Kaiqi

Visual Tracking via Incremental Self-tuning Particle Filtering on the Affine Group

Huang, Kun

Workshop: Two-Point Correlation as a Feature for Histology Images: Feature Space Structure and Correlation Updating

Huang, Ling

Workshop: Online Semi-Supervised Perception: Real-Time Learning without Explicit Feedback

Huang, Qingming

Measuring Visual Saliency by Site Entropy Rate

Novel Observation Model for Probabilistic Object Tracking

Huang, Thomas S.

Cross-Dataset Action Detection

Locality-constrained Linear Coding for Image Classification

Spatialized Epitome and Its Applications

Supervised Translation-Invariant Sparse Coding

Workshop: A Robust Framework for Multiview Age Estimation

Workshop: Dense Spatio-Temporal Motion Segmentation for Tracking Multiple Self-Occluding People

Huang, Xiaolei

Object Matching with a Locally Affine-Invariant Constraint

Huang, Yizhen

Learning from Interpolated Images using Neural Networks for Digital Forensics

Huang, Yuchi

Image Retrieval via Probabilistic Hypergraph Ranking

Automatic Image Annotation Using Group Sparsity

Huang, Zhongyang

Nonparametric Label-to-Region by Search

Huber, Martin

Lymph Node Detection in 3-D Chest CT using a Spatial Prior Probability

Huffer, Fred

Workshop: A Fully Statistical Framework for Shape Detection in Image Primitives

Hull, Jonathan J.

Demo: Mobile Visual Search, Linking Printed Documents to Digital Media

Humenberger, Martin

Workshop: A Census-Based Stereo Vision Algorithm Using Modified Semi-Global Matching and Plane Fitting to Improve Matching Quality

Hung, Terry

Workshop: Viewing Direction Estimation Based on 3D Eyeball Construction for HRI

Hunter, Andrew

Workshop: Binary Histogram based Split/Merge Object Detection using FPGAs

Huttenlocher, Daniel P.

Generating Sharp Panoramas from Motion-blurred Videos

Huynh, Cong Phuoc

Shape and Refractive Index Recovery from Single-View Polarisation Images

Hwang, Sung Ju

Reading Between The Lines: Object Localization Using Implicit Cues from Image Tags

I**Ichimura, Naoyuki**

Workshop: GPU Computing with Orientation Maps for Extracting Local Invariant Features

Igual, Laura

Workshop: Aligning Endoluminal Scene Sequences in Wireless Capsule Endoscopy

Ihler, Alexander

Covering Trees and Lower-bounds on Quadratic Assignment

Ihrke, Ivo

A Theory of Plenoptic Multiplexing

Sensor Saturation in Fourier Multiplexed Imaging

Ikeuchi, Katsushi

Estimating Optical Properties of Layered Surfaces Using the Spider Model

Consensus Photometric Stereo

Estimating Demosaicing Algorithms using Image Noise Variance

Workshop: Photometric Stereo using Graph Cut and M-estimation for a Virtual Tumulus in the Presence of Highlights and Shadows

Ilic, Slobodan

Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Adaptive Linear Predictors for Real-Time Tracking

Free-Form Mesh Tracking: a Patch-Based Approach

Model Globally, Match Locally: Efficient and Robust 3D Object Recognition

Demo: Demonstration: Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Irani, Michal

Detecting and Sketching the Common

Regenerative Morphing

Isack, Hossam N.

Fast Approximate Energy Minimization with Label Costs

Ishikawa, Seiji

Workshop: Action Recognition by Employing Combined Directional Motion History and Energy Images

Itakura, Yasumasa

Workshop: Precomputed ROMP for Light Transport Acquisition

Iyer, Vijay N.

Workshop: A Taxonomy of Face-models for System Evaluation

J**Jacobs, Nathan**

Using Cloud Shadows to Infer Scene Structure and Camera Calibration

Jagersand, Martin

Demo: User Guided MRI Segmentation: Balancing User Interaction and Automatic Segmentation
Workshop: Stability Effects of Finite Difference Methods on a Mathematical Tumor Growth Model

Jain, Anil K.

Online Visual Vocabulary Pruning Using Pairwise Constraints
Workshop: On the Utility of Extended Fingerprint Features: A Study on Pores

Jain, Arjun

Exploiting Global Connectivity Constraints for Reconstruction of 3D Line Segments from Images

Jain, Prateek

Far-Sighted Active Learning on a Budget for Image and Video Recognition

Jain, Ramesh

Workshop: Interactive Semantic Camera Coverage Determination using 3D Floorplans

Jain, Viren

Boundary Learning by Optimization with Topological Constraints

Jayant, Chandrika

Workshop: VizWiz::LocateIt - Enabling Blind People to Locate Objects in Their Environment

Jégou, Hervé

Aggregating Local Descriptors into a Compact Image Representation
Demo: Aggregating Descriptors to Index 10 Million Images on a Laptop

Jen, Yi-Hung

Demo: Dense Reconstruction from Millions of Images on a Single PC

Jeong, Yekeun

Pushing the Envelope of Modern Methods for Bundle Adjustment

Jeppson, Patrice

Workshop: Classification of Archaeological Ceramic Fragments Using Texture and Color Descriptors

Workshop: Virtual Reconstruction of Archaeological Vessels using Convex Hulls of Surface Markings

Jepson, Allan D.

Non-Rigid Structure from Locally-Rigid Motion
Polynomial Shape from Shading

Ji, Hui

A New Texture Descriptor Using Multifractal Analysis in Multi-orientation Wavelet Pyramid
Robust Video Denoising using Low Rank Matrix Completion
Learning Shift-Invariant Sparse Representation of Actions

Ji, Rongrong

Visual Tracking via Weakly Supervised Learning from Multiple Imperfect Oracles
Towards Semantic Embedding in Visual Vocabulary
Novel Observation Model for Probabilistic Object Tracking

Jia, Hongjun

ABSORB: Atlas Building by Self-Organized Registration and Bundling

Jia, Jiaya

Using Optical Defocus to Denoise
Motion Detail Preserving Optical Flow Estimation
Quasi-Dense 3D Reconstruction using Tensor-based Multiview Stereo

Jia, You

Optimizing kd-trees for Scalable Visual Descriptor Indexing

Jiang, Jiayan

Workshop: Sparse Semi-Supervised Learning for Perceptual Grouping

Jiang, Junfeng

Workshop: A New Player-Enabled Rapid Video Navigation Method Using Temporal Quantization and Repeated Weighted Boosting Search

Jiang, Shuqiang

Novel Observation Model for Probabilistic Object Tracking

Jiang, Yifeng

Workshop: Vascular Tree Reconstruction by Minimizing A Physiological Functional Cost

Jiao, Jianbin

Cascaded L1-norm Minimization Learning (CLML) Classifier for Human Detection

Jie, Luo

Online-Batch Strongly Convex Multi Kernel Learning
Workshop: OM-2: An Online Multi-class Multi-kernel Learning Algorithm

Jin, Hai

Nonparametric Label-to-Region by Search

Jin, Rong

Online Visual Vocabulary Pruning Using Pairwise Constraints

Jing, Yushi

Demo: Google Image Swirl: A Large-Scale Content-Based Image Browsing System

Jodoin, Pierre-Marc

Workshop: Camera-Projector Matching Using an Unstructured Video Stream

Johnson, Tim

Demo: Dense Reconstruction from Millions of Images on a Single PC

Jones, Michael

Morphable Reflectance Fields for Enhancing Face Recognition

Jordan, Chris

Adaptive Pose Priors for Pictorial Structures

Jordan, Michael I.

Sufficient Dimension Reduction for Visual Sequence Classification

Jordan, Samuel

Workshop: Projector Optical Distortion Calibration Using Gray Code Patterns

Joshi, Ajay J.

Breaking the Interactive Bottleneck in Multi-class Classification with Active Selection and Binary Feedback

Joshi, Anand A.

Diffeomorphic Sulcal Shape Analysis for Cortical Surface Registration

Joshi, Neel

A Content-Aware Image Prior

Generating Sharp Panoramas from Motion-blurred Videos

Joshi, Shantanu H.

Diffeomorphic Sulcal Shape Analysis for Cortical Surface Registration

Joshi, Swapna

Anatomical Parts-Based Regression Using Non-Negative Matrix Factorization

Joulin, Armand

Discriminative Clustering for Image Co-segmentation

Jr., Karl Ricanek

Workshop: Spectral Regression based Age Determination

Ju, Jin Sun

Demo: Intelligent Wheelchair (IW) Interface using Face and Mouth Recognition

Demo: A Visual Navigation using Color and Texture

Jurie, Frédéric

Improving Web Image Search Results using Query-relative Classifiers

K**Kaâniche, Mohamed-Bécha**

Gesture Recognition by Learning Local Motion Signatures

Kae, Andrew

Improving State-of-the-Art OCR through High-Precision Document-Specific Modeling

Kafai, Mehran

Workshop: Directional Mean Shift and its Application for Topology Classification of Local 3D Structures

Kagami, Shingo

Workshop: High-Speed Vision Systems and Projectors for Real-Time Perception of the World

Kahangad, Vivek

Workshop: Human Hand Identification with 3D Hand Pose Variations

Kahl, Fredrik

Parallel and Distributed Graph Cuts by Dual Decomposition

Kaiser, Moritz

Workshop: Automated Pose Estimation in 3D Point Clouds Applying Annealing Particle Filters and Inverse Kinematics on a GPU

Kak, Avinash C.

A Probabilistic Framework for Joint Segmentation and Tracking

Kakadiaris, Ioannis A.

Bidirectional Relighting for 3D-aided 2D Face Recognition

A Shape-Driven MRF Model for the Segmentation of Organs in Medical Images

Kakarala, Ramakrishna

A Theory of Phase-sensitive Rotation Invariance with Spherical Harmonic and Moment-based Representations

Kalafatić, Zoran

Workshop: Generative Modeling of Spatio-temporal Traffic Sign Trajectories

Kalal, Zdenek

P-N Learning: Bootstrapping Binary Classifiers by Structural Constraints

Demo: P-N Learning: Robust Object Tracking

Kalarot, Ratheesh

Workshop: Comparison of FPGA and GPU Implementations of Real-time Stereo Vision

Kamen, Ali

Natural Gradients for Deformable Registration

Kampel, Martin

Workshop: A Socio-Technical Approach for Event Detection in Security Critical Infrastructure

Kanade, Sanjay

Workshop: Obtaining Cryptographic Keys Using Feature Level Fusion of Iris and Face Biometrics for Secure User Authentication

Kanade, Takeo

Heterogeneous Conditional Random Field: Realizing Joint Detection and Segmentation of Cell Regions in Microscopic Images

Workshop: The Extended Cohn-Kanade Dataset (CK+): A Complete Dataset for Action Unit and Emotion-specified Expression

Kanan, Christopher

Robust Classification of Objects, Faces, and Flowers Using Natural Image Statistics

Kanaujia, Atul

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Kaneda, Kazufumi

Demo: CUDA-based Implementations of Softassign and EM-ICP

Kang, Sing Bing

A Content-Aware Image Prior

Removing Rolling Shutter Wobble

Personalization of Image Enhancement

Generating Sharp Panoramas from Motion-blurred Videos

Using Optical Defocus to Denoise

Kanterakis, Stathis

Workshop: Application of Trace-Norm and Low-Rank Matrix Decomposition for Computational Anatomy

Kanwisher, Nancy

Workshop: Nonparametric Hierarchical Bayesian Model for Functional Brain Parcellation

Kao, Huey-Ling

Rapid and Accurate Developmental Stage Recognition of *C. elegans* from High-throughput Image Data

Kapoor, Ashish

Personalization of Image Enhancement

Visual Recognition and Detection Under Bounded Computational Resources

Karasik, Avshalom

Workshop: A Complete, Automatic Procedure for Pottery Documentation and Analysis

Karlinsky, Leonid

The Chains Model for Detecting Parts by their Context

Karumuri, Suman

REVEAL Intermediate Report

Kashyap, Somesh

Data Driven Mean-Shift Belief Propagation For non-Gaussian MRFs

Kassam, Karim

Workshop: Affect Valence Inference From Facial Action Unit Spectrograms

Kasthuri, Narayanan

Boundary Learning by Optimization with Topological Constraints

Kate, Kiran

Workshop: QPLC: A Novel Multimodal Biometric Score Fusion Method

Kato, Hirokazu

Workshop: Appearance Control by Projector Camera Feedback for Visually Impaired

Kawakami, Rei

Estimating Optical Properties of Layered Surfaces Using the Spider Model

Surface Color Estimation Based on Inter- and Intra-Pixel Relationships in Outdoor Scenes

Kawasaki, Hiroshi

Workshop: One-shot Scanning Method using an Uncalibrated Projector and Camera System

Kawasaki, Ryo

Demo: Retinal Vessel Caliber Measurement: A Semi-automatic Approach

Kaynig, Verena

Neuron Geometry Extraction by Perceptual Grouping in ssTEM Images

Ke, Qifa

Scalable Face Image Retrieval with Identity-Based Quantization and Multi-Reference Re-ranking

Kellokumpu, Vili

Modeling Pixel Process with Scale Invariant Local Patterns for Background Subtraction in Complex Scenes

Kender, John R.

Workshop: Annotation and Taxonomy of Gestures in Lecture Videos

Keribin, Christine

Workshop: A Supervised Clustering Approach for Extracting Predictive Information from Brain Activation Images

Keriven, Renaud

Hybrid Multi-view Reconstruction by Jump-Diffusion

Kesztyues, Tibor

Demo: User Guided MRI Segmentation: Balancing User Interaction and Automatic Segmentation

Khalili, Amir Hossein

Workshop: Hierarchical Preference Learning for Light Control from User Feedback

Khan, Furqan Muhammad

Workshop: Multiple Pose Context Trees for Estimating Human Pose in Object Context

Khan, Saad

3D Model Based Vehicle Classification in Aerial Imagery

Kiehl, Kent A.

Anatomical Parts-Based Regression Using Non-Negative Matrix Factorization

Kim, Edward

Object Matching with a Locally Affine-Invariant Constraint

Kim, Eun Yi

Demo: Intelligent Wheelchair (IW) Interface using Face and Mouth Recognition

Demo: A Visual Navigation using Color and Texture

Demo: A Film Restoration System using Neural Network and Genetic Algorithm

Kim, Hyoungseop

Workshop: Action Recognition by Employing Combined Directional Motion History and Energy Images

Kim, Jaechul

Asymmetric Region-to-Image Matching for Comparing Images with Generic Object Categories

Kim, Kihwan

Motion Fields to Predict Play Evolution in Dynamic Sport Scenes

Player Localization Using Multiple Static Cameras for Sports Visualization

Kim, Kyung-tai

Demo: A Film Restoration System using Neural Network and Genetic Algorithm

Kim, Myoung-Hee

Workshop: Interactive Display of Image Details using a Camera-coupled Mobile Projector

Kim, Tae Hoon

Learning Full Pairwise Affinities for Spectral Segmentation

Nonparametric Higher-Order Learning for Interactive Segmentation

Kim, Tae-Kyun

Workshop: Online Multiple Classifier Boosting for Object Tracking

Kimia, Benjamin B.

Workshop: Learning Prototypical Shapes for Object Categories

Kimia, Benjamin

3D Curve Sketch: Flexible Curve-Based Stereo Reconstruction and Calibration

Workshop: HINDSITE: A User-Interactive Framework for Fragment Assembly

Workshop: REVEAL Intermediate Report

Kirby, Michael

Action Classification on Product Manifolds

Kirkbride, Shane R.

Workshop: A Taxonomy of Face-models for System Evaluation

Kiryati, Nahum

Multi-View Scene Flow Estimation: A View Centered Variational Approach

Kisilev, Pavel

Object-to-Object Color Transfer: Optimal Flows and SMSP Transformations

Kittler, Josef

Ip Norm Multiple Kernel Fisher Discriminant Analysis for Object and Image Categorisation

Workshop: Group-specific Score Normalization for Biometric Systems

Kjeldsen, Rick

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Kjellström, Hedvig

Tracking People Interacting with Objects

Klassen, Eric

A Novel Riemannian Framework for Shape Analysis of 3D Objects

Klopschitz, Manfred

Disambiguating Visual Relations Using Loop Constraints

Klose, Sebastian

Demo: The OpenTL Framework for Model-based Visual Tracking

Knoll, Alois

Demo: The OpenTL Framework for Model-based Visual Tracking

Knott, Graham

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Ko, Eunjeong

Demo: A Visual Navigation using Color and Texture

Ko, Teresa

Warping Background Subtraction

Koch, Reinhard

Workshop: Physically-based Augmentation of Real Objects with Virtual Content under the Influence of Ambient Light

Köhler, Sebastian

Workshop: FPGA-GPU Architecture for Kernel SVM Pedestrian Detection

Kohli, Pushmeet

Energy Minimization for Linear Envelope MRFs

A Spatially Varying PSF-based Prior for Alpha Matting

Surface Stereo with Soft Segmentation

On Detection of Multiple Object Instances using Hough Transforms

Koike, Hideki

Workshop: Contrasting Shadow for Occluder Light Suppression from One-Shot Image

Kojima, Keisuke

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Kokkinos, Iasonas

Scale-invariant Heat Kernel Signatures for Non-rigid Shape Recognition

Highly Accurate Boundary Detection and Grouping

Koller, Daphne

Efficiently Selecting Regions for Scene Understanding

Single Image Depth Estimation From Predicted Semantic Labels

Real Time Motion Capture using a Single Time-Of-Flight Camera

Kong, Naejin

Coded Exposure Imaging for Projective Motion Deblurring

Kong, Yu

Workshop: A Swarm Intelligence Based Searching Strategy for Articulated 3D Human Body Tracking

Koo, Hyung Il

Rectification of Figures and Photos in Document Images using Bounding Box Interface

Kotagiri, Rao

Demo: Retinal Vessel Caliber Measurement: A Semi-automatic Approach

Koutsourakis, Panagiotis

Segmentation of Building Facades Using Procedural Shape Priors

Kovashka, Adriana

Learning a Hierarchy of Discriminative Space-Time Neighborhood Features for Human Action Recognition

Kowdle, Adarsh

iCoseg: Interactive Co-segmentation with Intelligent Scribble Guidance

Kozintsev, Igor

Workshop: Fusing Image Data with Location and Orientation Sensor Data Streams for Consumer Video Applications

Kragić, Danica

Tracking People Interacting with Objects

Krajsek, Kai

Diffusion Filtering Without Parameter Tuning: Models and Inference Tools

Krapac, Josip

Improving Web Image Search Results using Query-relative Classifiers

Kratz, Louis

Tracking with Local Spatio-Temporal Motion Patterns in Extremely Crowded Scenes

Krishnan, Arun

Stratified Learning of Local Anatomical Context for Lung Nodules in CT Images

Krishnan, Dilip

Deconvolutional Networks

Kryszczuk, Krzysztof

Workshop: Handling High Dimensionality in Biometric Classification with Multiple Quality Measures using Locality Preserving Projection

Kubicki, Marek

Workshop: Robust Feature Selection in Resting-State fMRI Connectivity Based on Population Studies

Kubinger, Wilfried

Workshop: A Census-Based Stereo Vision Algorithm Using Modified Semi-Global Matching and Plane Fitting to Improve Matching Quality

Kubota, Toshiro

Workshop: Fixation Driven Contour Completion with Angular Ordering

Kuettel, Daniel

What's going on? Discovering Spatio-Temporal Dependencies in Dynamic Scenes

Kulyukin, Vladimir A.

Workshop: Demo: ShopMobile II: Eyes-Free Supermarket Grocery Shopping for Visually Impaired Mobile Phone Users

Kumar, Ajay

Workshop: Human Hand Identification with 3D Hand Pose Variations

Kumar, M. Pawan

Energy Minimization for Linear Envelope MRFs
Efficiently Selecting Regions for Scene Understanding

Kumar, Ram Krishan

Player Localization Using Multiple Static Cameras for Sports Visualization

Kumar, Ritwik

Morphable Reflectance Fields for Enhancing Face Recognition
Workshop: Radon-Like Features and their Application to Connectomics
Workshop: Cardiac Disease Detection from Echocardiogram using Edge Filtered Scale-invariant Motion Features

Kumar, Sanjiv

Semi-Supervised Hashing for Scalable Image Retrieval
YouTubeCat: Learning to Categorize Wild Web Videos
Demo: YoutubeCat: Categorizing Wild Youtube Videos

Kuniyoshi, Yasuo

Global Gaussian Approach for Scene Categorization Using Information Geometry

Kuo, Cheng-Hao

Multi-Target Tracking by On-Line Learned Discriminative Appearance Models

Kuo, Thomas

Workshop: Design and Implementation of a Wide Area, Large-Scale Camera Network

Kurillo, Gregorij

Workshop: Teleimmersive 3D Collaborative Environment for Cyberarchaeology

Kurtek, Sebastian

A Novel Riemannian Framework for Shape Analysis of 3D Objects

Kurz, Christian

Exploiting Global Connectivity Constraints for Reconstruction of 3D Line Segments from Images

Kurz, Daniel

Workshop: Fast and Robust CAMShift Tracking

Kusakunniran, Worapan

Support Vector Regression for Multi-View Gait Recognition based on Local Motion Feature Selection

Kutiyanawala, Aliasgar

Workshop: Demo: ShopMobile II: Eyes-Free Supermarket Grocery Shopping for Visually Impaired

Mobile Phone Users

Kutulakos, Kiriakos N.

Non-Rigid Structure from Locally-Rigid Motion

Kveton, Branislav

Workshop: Online Semi-Supervised Perception: Real-Time Learning without Explicit Feedback

Kwatra, Vivek

Discontinuous Seam-Carving for Video Retargeting
Efficient Hierarchical Graph-Based Video Segmentation

Kweon, In So

Pushing the Envelope of Modern Methods for Bundle Adjustment

Kwitt, Roland

Workshop: Predicting the Histology of Colorectal Lesions in a Probabilistic Framework

Kwok, James T.

Online Multiple Instance Learning with No Regret

Kwon, Dongjin

Optical Flow Estimation with Adaptive Convolution Kernel Prior on Discrete Framework

Kwon, Junghyun

Monocular SLAM with Locally Planar Landmarks via Geometric Rao-Blackwellized Particle Filtering on Lie Groups

Kwon, Junseok

Visual Tracking Decomposition

L

Labatut, Patrick

Robust Piecewise-Planar 3D Reconstruction and Completion from Large-Scale Unstructured Point Data

Lafarge, Florent

Hybrid Multi-view Reconstruction by Jump-Diffusion

Lagoa, Constantino

GPCA with Denoising: A Moments-Based Convex Approach

Lai, Rongjie

Metric-Induced Optimal Embedding for Intrinsic 3D Shape Analysis

Lai, Shang-Hong

Workshop: Learning Spatial Weighting via Quadratic Programming for Facial Expression Analysis

Lamoureux, Ecosse

Demo: Retinal Vessel Caliber Measurement: A Semi-automatic Approach

Lampert, Christoph H.

Optimizing One-Shot Recognition with Micro-Set Learning

An Efficient Divide-and-Conquer Cascade for Nonlinear Object Detection

Lanckriet, Gert R. G.

Clustering Dynamic Textures with the Hierarchical EM Algorithm

Lanckriet, Gert

Multi-Class Object Localization by Combining Local Contextual Interactions

Lang, Christian

Workshop: Facial Expressions as Feedback Cue in Human–Robot Interaction — A Comparison between Human and Automatic Recognition Performances

Lashkari, Danial

Workshop: Nonparametric Hierarchical Bayesian Model for Functional Brain Parcellation

Latecki, Longin Jan

Convex Shape Decomposition

Lawson, Wallace E.

Workshop: Integrating Vision for Human-Robot Interaction

Lazarov, Maxim

Workshop: Device-Independent Representation of Photometric Properties of a Camera

Lazebnik, Svetlana

Demo: Dense Reconstruction from Millions of Images on a Single PC

Learned-miller, Erik

Improving State-of-the-Art OCR through High-Precision Document-Specific Modeling

Workshop: Learning Class-Specific Image Transformations with Higher-Order Boltzmann Machines

LeCun, Yann

Learning Mid-Level Features For Recognition

Lee, Kyong Joon

Optical Flow Estimation with Adaptive Convolution Kernel Prior on Discrete Framework

Lee, Kyoung Mu

Monocular SLAM with Locally Planar Landmarks via Geometric Rao-Blackwellized Particle Filtering on Lie Groups

Visual Tracking Decomposition

Learning Full Pairwise Affinities for Spectral Segmentation

Authority-Shift Clustering: Hierarchical Clustering by Authority Seeking on Graphs

Unsupervised Detection and Segmentation of Identical Objects

Nonparametric Higher-Order Learning for Interactive Segmentation

Lee, Man Hee

Workshop: Mobile Photo Collage

Lee, Mun Wai

Workshop: Traffic Analysis with Low Frame Rate Camera Networks

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Lee, Sang Uk

Learning Full Pairwise Affinities for Spectral Segmentation

Nonparametric Higher-Order Learning for Interactive Segmentation

Optical Flow Estimation with Adaptive Convolution Kernel Prior on Discrete Framework

Lee, Sang-Wook

Global Optimization for Estimating a BRDF with Multiple Specular Lobes

Lee, Taehee

Demo: Tracking and Recognition on a Hand-held

Lee, Yong Jae

Object-Graphs for Context-Aware Category Discovery

Collect-Cut: Segmentation with Top-Down Cues Discovered in Multi-Object Images

Lees, Brandon

Rapid and Accurate Developmental Stage Recognition of *C. elegans* from High-throughput Image Data

Lehment, Nicolas H.

Workshop: Automated Pose Estimation in 3D Point Clouds Applying Annealing Particle Filters and Inverse Kinematics on a GPU

Leistner, Christian

Online Multi-Class LPBoost

On-line Semi-supervised Multiple-Instance Boosting

PROST: Parallel Robust Online Simple Tracking

Workshop: Multiple Instance Learning from Multiple Cameras

Lempitsky, Victor

Surface Extraction from Binary Volumes with Higher-Order Smoothness

On Detection of Multiple Object Instances using Hough Transforms

Lensch, Hendrik P. A.

Optimal HDR Reconstruction with Linear Digital Cameras

Lenz, Claus

Demo: The OpenTL Framework for Model-based Visual Tracking

Lepetit, Vincent

Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Pareto-optimal Dictionaries for Signatures

Demo: Demonstration: Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Lerman, Gilad

Randomized Hybrid Linear Modeling by Local Best-fit Flats

Letham, Jonathan

Workshop: Contextual Smoothing of Image Segmentation

Leung, Daniel

Proximate Sensing: Inferring What-Is-Where From Georeferenced Photo Collections

Leung, Maylor Karhang

Object Recognition by Discriminative Combinations of Line Segments and Ellipses

Levin, Anat

Linear View Synthesis Using a Dimensionality Gap Light Field Prior

Li, Baoxin

Discriminative K-SVD for Dictionary Learning in Face Recognition

YouTubeCat: Learning to Categorize Wild Web Videos

Demo: YoutubeCat: Categorizing Wild Youtube Videos

Workshop: Synthesis of Stereoscopic Views from Monocular Endoscopic Videos

Li, Eric

Bundled Depth-Map Merging for Multi-View Stereo

Workshop: Dynamic Projection Environments for Immersive Visualization

Li, Feng

Recovering Fluid-type Motions Using Navier-Stokes Potential Flow

Li, Fuxin

Object Recognition as Ranking Holistic Figure-Ground Hypotheses

Li, Gang

Workshop: Direction Field Diffusion on Cortical Surface via Graph Cuts

Li, Hanxi

Rapid Face Recognition Using Hashing

Li, Hongdong

Support Vector Regression for Multi-View Gait Recognition based on Local Motion Feature Selection

Multi-View Structure Computation without Explicitly Estimating Motion

Li, Hongsheng

Object Matching with a Locally Affine-Invariant Constraint

Automatic Image Annotation Using Group Sparsity

Li, Jianguo

Bundled Depth-Map Merging for Multi-View Stereo

Li, Jun

Workshop: Boosting Dense SIFT Descriptors and Shape Contexts of Face Images for Gender Recognition

Li, Kaiming

Workshop: Direction Field Diffusion on Cortical Surface via Graph Cuts

Li, Li-Jia

Building and Using a Semantivisual Image Hierarchy

Li, Liyuan

Spatialized Epitome and Its Applications

Li, Min

Visual Tracking via Incremental Self-tuning Particle Filtering on the Affine Group

Li, Mu

Online Multiple Instance Learning with No Regret

Li, Ruonan

Group Motion Segmentation Using a Spatio-Temporal Driving Force Model

Li, Shuo

Finding Image Distributions on Active Curves

Graph Cut Segmentation with a Global Constraint: Recovering Region Distribution via a Bound of the Bhattacharyya Measure

Li, Stan Z.

Modeling Pixel Process with Scale Invariant Local Patterns for Background Subtraction in Complex Scenes

Li, Wanqing

Workshop: Action Recognition Based on A Bag of 3D Points

Li, Wei

Efficient Joint 2D and 3D Palmprint Matching with Alignment Refinement

Li, Weixin

Anomaly Detection in Crowded Scenes

Li, Xiong

Bimodal Gender Recognition from Face and Fingerprint

Li, Xueqing

Warp Propagation for Video Resizing

Li, Yi

ARISTA - Image Search to Annotation on Billions of Web Photos

Learning Shift-Invariant Sparse Representation of Actions

Li, Yunpeng

Generating Sharp Panoramas from Motion-blurred Videos

Li, Zhen

Workshop: A Robust Framework for Multiview Age Estimation

Li, Zhiwei

Spatial-Bag-of-Features

Probabilistic Models for Supervised Dictionary Learning

Lian, Xiao-Chen

Probabilistic Models for Supervised Dictionary Learning

Liang, Dawei

Novel Observation Model for Probabilistic Object Tracking

Liang, Lin

AAM based Face Tracking with Temporal Matching and Face Segmentation

Liao, Chia-Te

Workshop: Learning Spatial Weighting via Quadratic Programming for Facial Expression Analysis

Liao, Shengcai

Modeling Pixel Process with Scale Invariant Local Patterns for Background Subtraction in Complex Scenes

Liao, Shu

A Novel Markov Random Field Based Deformable Model for Face Recognition

Liebelt, Joerg

Multi-View Object Class Detection with a 3D Geometric Model

Lim, Jongwoo

Egomotion using Assorted Features

Demo: Real-Time Wide Area Visual SLAM

Lim, Joseph J.

Exploiting Hierarchical Context on a Large Database of Object Categories

Lim, Yongwhan

Building and Using a Semantivisual Image Hierarchy

Lin, Dahua

Modeling and Estimating Persistent Motion with Geometric Flows

Lin, Henry

Workshop: The HPU

Lin, Huei-Yung

Workshop: 3-D Scene Representation with Layered Non-Uniform Global Sampling

Lin, Ruei-Sung

SPEC Hashing: Similarity Preserving Algorithm for Entropy-based Coding

Lin, Stephen

Super Resolution using Edge Prior and Single Image Detail Synthesis

Coded Exposure Imaging for Projective Motion Deblurring

Lin, Yaying

Workshop: Respiratory Rate Estimation via Simultaneously Tracking and Segmentation

Lin, Yuping

Accurate 3D Face Reconstruction from Weakly Calibrated Wide Baseline Images with Profile Contours

Lin, Zhouchen

The Multiscale Competitive Code via Sparse Representation for Palmprint Verification

Lindstrom, Peter

Triangulation Made Easy

Ling, Haibin

A New Texture Descriptor Using Multifractal Analysis in Multi-orientation Wavelet Pyramid

Use Bin-Ratio Information for Category and Scene Classification

Workshop: A Swarm Intelligence Based Searching Strategy for Articulated 3D Human Body Tracking

Lipowezky, Uri

Workshop: Indoor-Outdoor Detector for Mobile Phone Cameras Using Gentle Boosting

Lisanti, Giuseppe

Workshop: Device-Tagged Feature-based Localization and Mapping of Wide Areas with a PTZ Camera

Lischinski, Dani

Personalization of Image Enhancement

Litt, Harold

Workshop: Groupwise Morphometric Analysis Based on High Dimensional Clustering

Liu, Beyang

Single Image Depth Estimation From Predicted Semantic Labels

Liu, Ce

Exploring Features in a Bayesian Framework for Material Recognition

Liu, Chaoqiang

Robust Video Denoising using Low Rank Matrix Completion

Liu, David

Search Strategies for Multiple Landmark Detection by Submodular Maximization

Liu, Feng

Warp Propagation for Video Resizing

Liu, Hairong

Common Visual Pattern Discovery via Spatially Coherent Correspondences

Convex Shape Decomposition

Liu, Jason J.

Workshop: Video-based Localization for the Visually Impaired Without 3D Mapping

Liu, Jiangyu

Parallel Graph-cuts by Adaptive Bottom-up Merging

Liu, Jianzhuang

Object Cut: Complex 3D Object Reconstruction Through Line Drawing Separation

Isoperimetric Cut on a Directed Graph

Liu, Jingchen

Multi-Target Tracking of Time-varying Spatial Patterns

Liu, Meizhu

Total Bregman Divergence and its Applications to Shape Retrieval

Liu, Min

Multilinear Feature Extraction and Classification of Multi-Focal Images, With Applications in Nematode Taxonomy

Liu, Ming-Yu

Fast Directional Chamfer Matching

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Liu, Ming

ARISTA - Image Search to Annotation on Billions of Web Photos

Isoperimetric Cut on a Directed Graph

Liu, Qingshan

Image Retrieval via Probabilistic Hypergraph Ranking
Exploring Facial Expression with Compositional Features

Liu, Shaohui

Visual Tracking via Weakly Supervised Learning from Multiple Imperfect Oracles

Liu, Shuaicheng

Super Resolution using Edge Prior and Single Image Detail Synthesis

Liu, Shubao

Ray Markov Random Fields for Image-Based 3D Modeling: Model and Efficient Inference
REVEAL Intermediate Report

Liu, Tianming

Workshop: Direction Field Diffusion on Cortical Surface via Graph Cuts

Liu, Wanquan

Exploiting Monge Structures in Optimum Subwindow Search

Liu, Wenyu

Convex Shape Decomposition

Liu, Xiaobai

Nonparametric Label-to-Region by Search

Liu, Xiaoming

Workshop: Improving Biometric Identification Through Quality-based Face and Fingerprint
Biometric Fusion

Liu, Xiuwen

Workshop: Shot Boundary Detection in Videos Using Robust Three-Dimensional Tracking
Workshop: 3D Structure Estimation from Monocular Video Clips

Liu, Xu

Demo: Mobile Visual Search, Linking Printed Documents to Digital Media

Liu, Yan

Large-Scale Image Retrieval with Compressed Fisher Vectors
Large-Scale Image Categorization with Explicit Data Embedding

Liu, Yanan

Sparse Representation using Nonnegative Curds and Whey

Liu, Yanxi

Data Driven Mean-Shift Belief Propagation For non-Gaussian MRFs
Multi-Target Tracking of Time-varying Spatial Patterns

Liu, Yuncai

Bimodal Gender Recognition from Face and Fingerprint

Liu, Yunlong

Simultaneous Searching of Globally Optimal Interacting Surfaces with Shape Priors

Liu, Zexi

Workshop: Virtual Reconstruction of Archaeological Vessels using Expert Priors & Surface Markings

Liu, Zicheng

Cross-Dataset Action Detection

Workshop: Real Time Head Pose Tracking from Multiple Cameras with a Generic Model

Workshop: Action Recognition Based on A Bag of 3D Points

Liu, Zuotao

Semantic Context Modeling with Maximal Margin Conditional Random Fields for Automatic Image Annotation

Long, Xiaojing

An Automatic Unsupervised Classification of MR Images in Alzheimer's Disease

Lopez, Antonio M.

3D Scene Priors for Road Detection

López, Antonio M.

Learning Appearance in Virtual Scenarios for Pedestrian Detection

Lothe, Pierre

Real-Time Vehicle Global Localisation with a Single Camera in Dense Urban Areas: Exploitation of Coarse 3D City Models

Lu, Bao-liang

Probabilistic Models for Supervised Dictionary Learning

Online Multiple Instance Learning with No Regret

Lu, Chao

Workshop: Constrained Non-rigid Registration Using Lagrange Multipliers for Application in Prostate Radiotherapy

Lu, Guangming

Efficient Joint 2D and 3D Palmprint Matching with Alignment Refinement

Lu, Jiwen

Cost-Sensitive Subspace Learning for Face Recognition

Workshop: Ordinary Preserving Manifold Analysis for Human Age Estimation

Lu, Le

Stratified Learning of Local Anatomical Context for Lung Nodules in CT Images

Lu, Max

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Lu, Yao

Abrupt Motion Tracking via Adaptive Stochastic Approximation Monte Carlo Sampling

Lu, Zheng

A Framework for Ultra High Resolution 3D Imaging

Lu, Zhengdong

Parametric Dimensionality Reduction by Unsupervised Regression

Lucey, Patrick

Workshop: The Extended Cohn-Kanade Dataset (CK+): A Complete Dataset for Action Unit and Emotion-specified Expression

Lucey, Simon

Fast Image Alignment in the Fourier Domain

Luciw, Matthew

Workshop: Online Learning for Attention, Recognition, and Tracking by a Single Developmental Framework

Lui, Lok Ming

Compression of Surface Registrations using Beltrami Coefficients

Lui, Yui Man

Action Classification on Product Manifolds

Visual Object Tracking using Adaptive Correlation Filters

Workshop: Quantifying How Lighting and Focus Affect Face Recognition Performance

Lumsdaine, Andrew

Demo: Real Time Lightfield Rendering Using GPUs

Luo, Jiebo

Nonparametric Label-to-Region by Search

iCoseg: Interactive Co-segmentation with Intelligent Scribble Guidance

Visual Event Recognition in Videos by Learning from Web Data

Tag-based Web Photo Retrieval Improved by Batch Mode Re-Tagging

Luo, Tao

Global and Local Isometry-Invariant Descriptor for 3D Shape Comparison and Partial Matching

Luu, Khoa

Workshop: Spectral Regression based Age Determination

Lux, Augustin

Workshop: Tensor-Jet: A Tensorial Representation of Local Binary Gaussian Jet Maps

Lv, Fengjun

Locality-constrained Linear Coding for Image Classification

Lyle, Jamie R.

Workshop: Periocular Region Appearance Cues for Biometric Identification

M

Ma, Songde

Global and Local Isometry-Invariant Descriptor for 3D Shape Comparison and Partial Matching

Ma, Wei-Ying

ARISTA - Image Search to Annotation on Billions of Web Photos

Ma, Yi

RASL: Robust Alignment by Sparse and Low-rank Decomposition for Linearly Correlated Images
Compact Projection: Simple and Efficient Near Neighbor Search with Practical Memory Requirements

Machiraju, Raghu

Workshop: Two-Point Correlation as a Feature for Histology Images: Feature Space Structure and Correlation Updating

Mahadevan, Vijay

On the Design of Robust Classifiers for Computer Vision
Anomaly Detection in Crowded Scenes

Majer, Nikodem

New Features and Insights for Pedestrian Detection

Majumder, Aditi

Workshop: Display Gamut Reshaping for Color Emulation and Balancing
Workshop: Device-Independent Representation of Photometric Properties of a Camera

Makihara, Yasushi

Silhouette Transformation based on Walking Speed for Gait Identification

Malagelada, Carolina

Workshop: Aligning Endoluminal Scene Sequences in Wireless Capsule Endoscopy

Mallapragada, Pavan Kumar

Online Visual Vocabulary Pruning Using Pairwise Constraints

Manjunath, B. S.

Generalized Simultaneous Registration and Segmentation
Workshop: Design and Implementation of a Wide Area, Large-Scale Camera Network

Manjunath, B.S.

Anatomical Parts-Based Regression Using Non-Negative Matrix Factorization

Manor, Nathan

Visual Recognition using Mappings that Replicate Margins

Mao, Dansheng

A Theory of Phase-sensitive Rotation Invariance with Spherical Harmonic and Moment-based Representations

Marcel, Sébastien

Demo: MOBIO: Mobile Biometric Face and Speaker Authentication

Marimon, David

DARTs: Efficient scale-space extraction of DAISY keypoints

Marín, Javier

Learning Appearance in Virtual Scenarios for Pedestrian Detection

Marks, Tim K.

Morphable Reflectance Fields for Enhancing Face Recognition
Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter

using Active Illumination

Márquez-Neila, Pablo

Morphological Snakes

Martelli, Samuele

Workshop: FPGA-Based Robust Ellipse Estimation for Circular Road Sign Detection

Martin, Nicolas

Workshop: Fast Probabilistic Estimation of Egomotion From Image Intensities.

Martinez, Aleix M.

Bayes Optimal Kernel Discriminant Analysis

Martinez, Brais

Facial Point Detection using Boosted Regression and Graph Models

Workshop: Facial Component Detection in Thermal Imagery

Martínez, Oriol

Workshop: Concealed Object Detection and Segmentation over Millimetric Waves Images

Marzotto, Roberto

Workshop: FPGA-Based Robust Ellipse Estimation for Circular Road Sign Detection

Masi, Iacopo

Workshop: Device-Tagged Feature-based Localization and Mapping of Wide Areas with a PTZ Camera

Masip, David

Automatic Point-based Facial Trait Judgments Evaluation

Masnadi-Shirazi, Hamed

On the Design of Robust Classifiers for Computer Vision

Masood, Syed Z.

Learning to Recognize Shadows in Monochromatic Natural Images

Massé, Guillaume

Workshop: Feedback Scheme for Thermal-visible Video Registration, Sensor Fusion, and People Tracking

Matas, Jiří

P-N Learning: Bootstrapping Binary Classifiers by Structural Constraints

Unsupervised Discovery of Co-occurrence in Sparse High Dimensional Data

Tracking the Invisible: Learning Where the Object Might be

Matas, Jiří

Demo: P-N Learning: Robust Object Tracking

Matějka, Pavel

Demo: MOBIO: Mobile Biometric Face and Speaker Authentication

Matsumoto, Hiroki

Multiview Constraints in Frequency Space and Camera Calibration from Unsynchronized Images

Matsushita, Yasuyuki

Consensus Photometric Stereo
Motion Detail Preserving Optical Flow Estimation
Calibration-free Gaze Sensing using Saliency Maps
Self-calibrating Photometric Stereo
Estimating Demosaicing Algorithms using Image Noise Variance

Matsuyama, Takashi

Dynamic Surface Matching by Geodesic Mapping for 3D Animation Transfer

Matthews, Iain

Motion Fields to Predict Play Evolution in Dynamic Sport Scenes
Workshop: The Extended Cohn-Kanade Dataset (CK+): A Complete Dataset for Action Unit and Emotion-specified Expression

Matthies, Dennis

3D Model Based Vehicle Classification in Aerial Imagery

Mattocchia, Stefano

Workshop: Fast Locally Consistent Dense Stereo on Multicore

Mauthner, Thomas

Workshop: FlowGames

Maybank, Steve

Workshop: A Swarm Intelligence Based Searching Strategy for Articulated 3D Human Body Tracking

Mayer, Christoph

Workshop: A Graphical Model for Unifying Tracking and Classification within a Multimodal Human-Robot Interaction Scenario

McAllester, David

Cascade Object Detection with Deformable Part Models
Workshop: Structure and Motion from Road-Driving Stereo Sequences

McAuley, Julian J.

Unified Graph Matching in Euclidean Spaces

McCool, Chris

Demo: MOBIO: Mobile Biometric Face and Speaker Authentication

McDuff, Daniel

Workshop: Affect Valence Inference From Facial Action Unit Spectrograms

McFee, Brian

Multi-Class Object Localization by Combining Local Contextual Interactions

Medioni, Gérard

Accurate 3D Face Reconstruction from Weakly Calibrated Wide Baseline Images with Profile Contours
Workshop: Robot Vision for the Visually Impaired
Workshop: Color Contrast Enhancement for Visually Impaired People
Workshop: Human Pose Estimation from a Single View Point, Real-Time Range Sensor

Mehran, Ramin

Human Identity Recognition in Aerial Images

Mei, Christopher

Growing Semantically Meaningful Models for Visual SLAM

Mendenhall, John M.

Boundary Learning by Optimization with Topological Constraints

Meng, Hongying

Workshop: Binary Histogram based Split/Merge Object Detection using FPGAs

Meng, Yan

Workshop: Human Activity Recognition in Video using a Hierarchical Probabilistic Latent Model

Menk, Christoffer

Workshop: Physically-based Augmentation of Real Objects with Virtual Content under the Influence of Ambient Light

Metaxas, Dimitris N.

Image Retrieval via Probabilistic Hypergraph Ranking

Automatic Image Annotation Using Group Sparsity

Metaxas, DimitrisN.

Exploring Facial Expression with Compositional Features

Miao, Yiyi

Workshop: Directional Mean Shift and its Application for Topology Classification of Local 3D Structures

Michel, Fabrice

Data Fusion through Cross-modality Metric Learning using Similarity-Sensitive Hashing

Michel, Vincent

Workshop: A Supervised Clustering Approach for Extracting Predictive Information from Brain Activation Images

Micusik, Branislav

Simultaneous Surveillance Camera Calibration and Foot-head Homology Estimation from Human Detections

Localizing Non-Overlapping Surveillance Cameras under the L-Infinity Norm

Mihailidis, Alex

Workshop: Automatic Segmentation of Video to Aid the Study of Faucet Usability for Older Adults

Mikolajczyk, Krystian

P-N Learning: Bootstrapping Binary Classifiers by Structural Constraints

Learning Weights for Codebook in Image Classification and Retrieval

lp Norm Multiple Kernel Fisher Discriminant Analysis for Object and Image Categorisation

Demo: P-N Learning: Robust Object Tracking

Milite, Chris

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Miller, Andrew

Workshop: VizWiz::LocateIt - Enabling Blind People to Locate Objects in Their Environment

Miller, Philip E.

Workshop: Periocular Region Appearance Cues for Biometric Identification

Min, Kerui

Compact Projection: Simple and Efficient Near Neighbor Search with Practical Memory Requirements

Mirzaalian, Hengameh

Vessel Scale Selection using MRF Optimization

Mitiche, Amar

Finding Image Distributions on Active Curves

Mitra, Kaushik

Robust RVM Regression Using Sparse Outlier Model

Mittal, Anurag

Robust Order-based Methods for Feature Description

Miyagawa, Isao

Workshop: Contrasting Shadow for Occluder Light Suppression from One-Shot Image

Miyazaki, Daisuke

Workshop: Photometric Stereo using Graph Cut and M-estimation for a Virtual Tumulus in the Presence of Highlights and Shadows

Moore, Alastair P.

"Lattice Cut" - Constructing Superpixels using Layer Constraints

Moore, Brian E.

Chaotic Invariants of Lagrangian Particle Trajectories for Anomaly Detection in Crowded Scenes

Moraleda, Jorge

Demo: Mobile Visual Search, Linking Printed Documents to Digital Media

Mordohai, Philippos

Detecting and Parsing Architecture at City Scale from Range Data

Evaluation of Stereo Confidence Indoors and Outdoors

Moreno-Noguer, Francesc

Simultaneous Pose, Correspondence and Non-Rigid Shape

Efficient Rotation Invariant Object Detection using Boosted Random Ferns

Mori, Greg

Recognizing Human Actions from Still Images with Latent Poses

Morimoto, Tetsuro

Estimating Optical Properties of Layered Surfaces Using the Spider Model

Morris, John

Workshop: Comparison of FPGA and GPU Implementations of Real-time Stereo Vision

Morse, Bryan S.

Simultaneous Foreground, Background, and Alpha Estimation for Image Matting

Morse, Bryan

Geodesic Graph Cut for Interactive Image Segmentation

Morvan, Yann

Workshop: An Integrated Image and Sketching Environment for Archaeological Sites

Mosayebi, Parisa

Workshop: Stability Effects of Finite Difference Methods on a Mathematical Tumor Growth Model

Moses, Yael

Multi-View Scene Flow Estimation: A View Centered Variational Approach

Moskovich, Boaz

Workshop: Illumination Invariant Representation for Privacy Preserving Face Identification

Mourikis, Anastasios I.

Workshop: Error Model for Scene Reconstruction from Motion and Stereo

Movahedi, Vida

Workshop: Design and Perceptual Validation of Performance Measures for Salient Object Segmentation

Movellan, Javier R.

Workshop: Facial Expression Recognition Using Gabor Motion Energy Filters

Mu, Guowang

Workshop: Human Age Estimation: What is the Influence Across Race and Gender?

Workshop: A Study of Large-Scale Ethnicity Estimation with Gender and Age Variations

Mu, Yadong

Weakly-Supervised Hashing in Kernel Space

Mukaigawa, Yasuhiro

Analysis of Light Transport in Scattering Media

Mukherjee, Lopamudra

Learning Kernels for Variants of Normalized Cuts: Convex Relaxations and Applications

Müller, Meinard

Multisensor-Fusion for 3D Full-Body Human Motion Capture

Müller, Thomas

Demo: The OpenTL Framework for Model-based Visual Tracking

Mulligan, Jane

Performance Evaluation of Color Correction Approaches for Automatic Multi-view Image and Video Stitching

Munsell, Brent C.

Two Perceptually Motivated Strategies for Shape Classification

Murino, Vittorio

Person Re-Identification by Symmetry-Driven Accumulation of Local Features

Workshop: FPGA-Based Robust Ellipse Estimation for Circular Road Sign Detection

Workshop: Socially Intelligent Surveillance and Monitoring: Analysing Social Dimensions of Physical Space

Murray, David

Growing Semantically Meaningful Models for Visual SLAM

Murtha, Albert

Demo: User Guided MRI Segmentation: Balancing User Interaction and Automatic Segmentation

Murtha, Alberta

Workshop: Stability Effects of Finite Difference Methods on a Mathematical Tumor Growth Model

Muschio, Glen

Workshop: Virtual Reconstruction of Archaeological Vessels using Expert Priors & Surface Markings

Musik, Christoph

Workshop: A Socio-Technical Approach for Event Detection in Security Critical Infrastructure

N

Nagarajan, Srikantan S.

Topic Regression Multi-Modal Latent Dirichlet Allocation for Image Annotation

Nagle, Akash

Talking Pictures: Temporal Grouping and Dialog-Supervised Person Recognition

Nair, Suraj

Demo: The OpenTL Framework for Model-based Visual Tracking

Nakaguchi, Toshiya

Workshop: Precomputed ROMP for Light Transport Acquisition

Nakashima, Yuta

Workshop: Detecting Intended Human Objects in Human-Captured Videos

Nakayama, Hideki

Global Gaussian Approach for Scene Categorization Using Information Geometry

Nappi, Michele

Workshop: HERO: Human Ear Recognition against Occlusions

Narasimhan, Srinivasa G.

A Globally Optimal Data-Driven Approach for Image Distortion Estimation
Optimal Coded Sampling for Temporal Super-Resolution

Narr, Katherine L.

Diffeomorphic Sulcal Shape Analysis for Cortical Surface Registration

Nascimento, Jacinto C.

Multiple Dynamic Models for Tracking the Left Ventricle of the Heart from Ultrasound Data using Particle Filters and Deep Learning Architectures

Nasman, Joshua

Workshop: Dynamic Projection Environments for Immersive Visualization

Natarajan, Pradeep

Learning 3D Action Models from a Few 2D Videos for View Invariant Action Recognition

Nater, Fabian

Exploiting Simple Hierarchies for Unsupervised Human Behavior Analysis

Navab, Nassir

Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Adaptive Linear Predictors for Real-Time Tracking

Model Globally, Match Locally: Efficient and Robust 3D Object Recognition

Natural Gradients for Deformable Registration

Rapid Selection of Reliable Templates for Visual Tracking

Demo: Demonstration: Dominant Orientation Templates for Real-Time Detection of Texture-Less Objects

Workshop: Structural Image Representation for Image Registration

Nayar, Shree

Depth from Diffusion

Nestares, Oscar

Workshop: Fusing Image Data with Location and Orientation Sensor Data Streams for Consumer Video Applications

Nevatia, Ram

High Performance Object Detection by Collaborative Learning of Joint Ranking of Granule Features

Learning 3D Action Models from a Few 2D Videos for View Invariant Action Recognition

Workshop: Multiple Pose Context Trees for Estimating Human Pose in Object Context

Nevatia, Ramakant

Multi-Target Tracking by On-Line Learned Discriminative Appearance Models

Nevins, Zeb

Workshop: The HPU

Newcombe, Richard A.

Live Dense Reconstruction with a Single Moving Camera

Demo: Live Dense Reconstruction with a Single Moving Camera

Newsam, Shawn

Proximate Sensing: Inferring What-Is-Where From Georeferenced Photo Collections

Ng, Andrew Y.

A Steiner Tree Approach to Efficient Object Detection

Ng, Bernard

Group MRF for fMRI Activation Detection

Ng, Jeffrey

Workshop: Dense Photometric Stereo Reconstruction on Many Core GPUs

Ng, Tian-Tsong

Factorization Towards a Classifier

Ngo, Chong-Wah

Semantic Context Modeling with Maximal Margin Conditional Random Fields for Automatic Image Annotation

Nguyen, Hien

Workshop: Tracking via Object Reflectance using a Hyperspectral Camera

Nguyen, Minh Hoai

Action Unit Detection with Segment-based SVMs

Ni, Zefeng

Workshop: Design and Implementation of a Wide Area, Large-Scale Camera Network

Nicolls, Fred

Discrete Minimum Ratio Curves and Surfaces

Nie, Jingxin

Workshop: Direction Field Diffusion on Cortical Surface via Graph Cuts

Niebles, Juan Carlos

Efficient Extraction of Human Motion Volumes by Tracking

Nielsen, Frank

Total Bregman Divergence and its Applications to Shape Retrieval

Nishino, Ko

Scale-Hierarchical 3D Object Recognition in Cluttered Scenes

Tracking with Local Spatio-Temporal Motion Patterns in Extremely Crowded Scenes

Nister, David

Pushing the Envelope of Modern Methods for Bundle Adjustment

Niu, Yuzhen

Warp Propagation for Video Resizing

Nixon, Mark S.

3D Morphable Model Construction for Robust Ear and Face Recognition

Nwogu, Ifeoma

Workshop: Syntactic Image Parsing using Ontology and Semantic Descriptions

O**O'Donovan, Adam E.**

Demo: Audio-Visual Panoramas

Ofek, Eyal

Detecting Text in Natural Scenes with Stroke Width Transform

Ogasawara, Tsukasa

Surface Color Estimation Based on Inter- and Intra-Pixel Relationships in Outdoor Scenes

Estimating Demosaicing Algorithms using Image Noise Variance

Oh, Sangmin

Temporal Causality for the Analysis of Visual Events

Okada, Gimpei

Workshop: Precomputed ROMP for Light Transport Acquisition

Okada, Kazunori

Workshop: Directional Mean Shift and its Application for Topology Classification of Local 3D Structures

Okutomi, Masatoshi

Image Restoration and Disparity Estimation from an Uncalibrated Multi-Layered Image
Direct Image Alignment of Projector-Camera Systems with Planar Surfaces

Oleskiw, Timothy D.

On Growth and Formlets: Sparse Multi-Scale Coding of Planar Shape

Oliva, Aude

SUN Database: Large Scale Scene Recognition from Abbey to Zoo

Oliveira, Francisco

Workshop: Using a Vision Based Tracking to Support Real-Time Graphical Instruction for Student Who Have Visual Impairments

Oliver, Kenton

Free-Shape Subwindow Search for Object Localization
Workshop: Feature Matching In Underwater Environments Using Sparse Linear Combinations

Olsson, Carl

Outlier Removal Using Duality

Ong, Lee-Ling S.

Workshop: Tracking of Cell Population from Time Lapse and End Point Confocal Microscopy Images with Multiple Hypothesis Kalman Smoothing Filters

Orabona, Francesco

Online-Batch Strongly Convex Multi Kernel Learning
Safety in Numbers: Learning Categories from Few Examples with Multi Model Knowledge Transfer
Workshop: OM-2: An Online Multi-class Multi-kernel Learning Algorithm

Oreifej, Omar

Human Identity Recognition in Aerial Images

Ortega-Garcia, Javier

Workshop: Scenario-Based Score Fusion for Face Recognition at a Distance

Ortner, Mathias

Estimating Satellite Attitude from Pushbroom Sensors

Osadchy, Margarita

Workshop: Illumination Invariant Representation for Privacy Preserving Face Identification

Osokin, Anton

Fast Approximate Energy Minimization with Label Costs

Östlund, Jonas

O

Ouyang, Wanli

Fast Pattern Matching using Orthogonal Haar Transform

Ovsjanikov, Maks

Image Webs: Computing and Exploiting Connectivity in Image Collections

Ozay, Necmiye

GPCA with Denoising: A Moments-Based Convex Approach

P

Padfield, Dirk

Masked FFT Registration

Padole, Chandrashekhar N.

Workshop: Wigner Distribution based Motion Tracking of Human Beings using Thermal Imaging

Paier, Wolfgang

Workshop: FlowGames

Pajdla, Tomas

Simultaneous Surveillance Camera Calibration and Foot-head Homology Estimation from Human Detections

Pan, Gang

Removal of 3D Face Expressions: A Learning-based Approach

Pan, Jiyan

Heterogeneous Conditional Random Field: Realizing Joint Detection and Segmentation of Cell Regions in Microscopic Images

Panchanathan, Sethuraman

Workshop: Learning from Summaries of Videos: Applying Batch Mode Active Learning to Face-based Biometrics

Pang, Sydney

Workshop: Mobile Image Search With Multimodal Context-Aware Queries

Panin, Giorgio

Demo: The OpenTL Framework for Model-based Visual Tracking

Pankanti, Sharathchandra

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Pantic, Maja

Facial Point Detection using Boosted Regression and Graph Models

Workshop: Facial Component Detection in Thermal Imagery

Workshop: Facial Expression Invariant Head Pose Normalization using Gaussian Process Regression

Pap, Gyula

Globally Optimal Pixel Labeling Algorithms for Tree Metrics

Papademetris, Xenophon

Workshop: Vascular Tree Reconstruction by Minimizing A Physiological Functional Cost

Workshop: Constrained Non-rigid Registration Using Lagrange Multipliers for Application in Prostate Radiotherapy

Papanikolopoulos, Nikolaos

Breaking the Interactive Bottleneck in Multi-class Classification with Active Selection and Binary Feedback

Paragios, Nikos

Dense Non-rigid Surface Registration Using High-Order Graph Matching

Data Fusion through Cross-modality Metric Learning using Similarity-Sensitive Hashing

Segmentation of Building Facades Using Procedural Shape Priors

Paramanand, Chandramouli

Workshop: Unscented Transformation for Depth from Motion-Blur in Videos

Parameswaran, Vasu

Illumination Compensation Based Change Detection Using Order Consistency

Pardàs, Montse

Workshop: Spatio-Temporal Alignment and Hyperspherical Radon Transform for 3D Gait Recognition in Multi-view Environments

Workshop: Real-Time 3D Multi-Person Tracking Using Monte Carlo Surface Sampling

Parikh, Devi

iCoseg: Interactive Co-segmentation with Intelligent Scribble Guidance

Beyond Trees: MRF Inference via Outer-Planar Decomposition

The Role of Features, Algorithms and Data in Visual Recognition

Park, In Kyu

Workshop: Mobile Photo Collage

Park, Jiyoung

Workshop: Interactive Display of Image Details using a Camera-coupled Mobile Projector

Park, Johnny

A Probabilistic Framework for Joint Segmentation and Tracking

Park, Minwoo

Data Driven Mean-Shift Belief Propagation For non-Gaussian MRFs

Park, Sung Won

An Extension of Multifactor Analysis for Face Recognition Based on Submanifold Learning

Parks, Brian C.

Workshop: A Taxonomy of Face-models for System Evaluation

Parks, Brian

Workshop: FACE-GRAB: Face Recognition with General Region Assigned to Binary Operator

Pasca, Marius

Finding Meaning on YouTube: Tag Recommendation and Category Discovery

Passalis, George

Bidirectional Relighting for 3D-aided 2D Face Recognition

Patil, Harshal

Robust Order-based Methods for Feature Description

Patras, Ioannis

Workshop: Facial Expression Invariant Head Pose Normalization using Gaussian Process Regression

Patterson, Eric

Workshop: A Hierarchical Approach to Facial Aging

Paucher, Rémi

Workshop: Location-based Augmented Reality on Mobile Phones

Pavlopoulou, Christina

Workshop: Indoor-Outdoor Classification with Human Accuracies: Image or Edge Gist?

Pekalska, Elzbieta

Spherical Embeddings for non-Euclidean Dissimilarities

Pellegrini, Stefano

Workshop: Wrong Turn – No Dead End: a Stochastic Pedestrian Motion Model

Peng, Hanchuan

Demo: Understanding Multidimensional Biological Images -- An Automatic Classification and Annotation Framework

Peng, Jiming

Learning Kernels for Variants of Normalized Cuts: Convex Relaxations and Applications

Peng, Kun

Geometric Properties of Multiple Reflections in Catadioptric Camera with Two Planar Mirrors

Peng, Qunsheng

Transductive Segmentation of Live Video with Non-stationary Background

Peng, Yigang

RASL: Robust Alignment by Sparse and Low-rank Decomposition for Linearly Correlated Images

Pérez, Patrick

Aggregating Local Descriptors into a Compact Image Representation

Demo: Aggregating Descriptors to Index 10 Million Images on a Laptop

Perina, Alessandro

Person Re-Identification by Symmetry-Driven Accumulation of Local Features

Perkins, Rob

Demo: Real-time Polarization Imaging at 1 Megapixel Resolution

Pernici, Federico

Workshop: Device-Tagged Feature-based Localization and Mapping of Wide Areas with a PTZ Camera

Perona, Pietro

Cascaded Pose Regression

Workshop: Online Crowdsourcing: Rating Annotators and Obtaining Cost-effective Labels

Perrier, Régis

Estimating Satellite Attitude from Pushbroom Sensors

Perronnin, Florent

Large-Scale Image Retrieval with Compressed Fisher Vectors

Large-Scale Image Categorization with Explicit Data Embedding

Perrotton, Xavier

Implicit Hierarchical Boosting for Multi-view Object Detection

Pešán, Jan

Demo: MOBIO: Mobile Biometric Face and Speaker Authentication

Petrou, Maria

Bidirectional Relighting for 3D-aided 2D Face Recognition

Workshop: Sparse Representations For Facial Expressions Recognition via l1 optimization

Workshop: Automatic Change Detection in an Indoor Environment

Petrovska-Delacrétaz, Dijana

Workshop: Obtaining Cryptographic Keys Using Feature Level Fusion of Iris and Face Biometrics for Secure User Authentication

Peursum, Patrick

Exploiting Monge Structures in Optimum Subwindow Search

Peyré, Gabriel

On Growth and Formlets: Sparse Multi-Scale Coding of Planar Shape

Pfister, Hanspeter

Workshop: Radon-Like Features and their Application to Connectomics

Pflugfelder, Roman

Localizing Non-Overlapping Surveillance Cameras under the L-Infinity Norm

Pham, Minh-Tri

Fast Polygonal Integration and Its Application in Extending Haar-like Features to Improve Object Detection

Estimating Camera Pose from a Single Urban Ground-View Omnidirectional Image and a 2D Building Outline Map

Philipose, Matthai

Workshop: Online Semi-Supervised Perception: Real-Time Learning without Explicit Feedback

Phillips, Cody

Workshop: Video-based Localization for the Visually Impaired Without 3D Mapping

Phillips, P. Jonathon

Workshop: Quantifying How Lighting and Focus Affect Face Recognition Performance

Piano, Fabio

Rapid and Accurate Developmental Stage Recognition of *C. elegans* from High-throughput Image Data

Picard, Rosalind W.

Demo: I-See-You: Robust Recognition of Facial Expressions and Speech Prosody in Real Time

Picard, Rosalind

Workshop: Affect Valence Inference From Facial Action Unit Spectrograms

Pietikäinen, Matti

Modeling Pixel Process with Scale Invariant Local Patterns for Background Subtraction in Complex Scenes

Pinz, Axel

Workshop: Generative Modeling of Spatio-temporal Traffic Sign Trajectories

Pisarevsky, Vadim

Demo: OpenCV on NVidia Stereoids

Plagemann, Christian

Upsampling Range Data in Dynamic Environments

Real Time Motion Capture using a Single Time-Of-Flight Camera

Pless, Robert

Using Cloud Shadows to Infer Scene Structure and Camera Calibration

Pock, Thomas

Motion Estimation with Non-Local Total Variation Regularization

Online Multi-Class LPBoost

Variational Segmentation of Elongated Volumetric Structures

PROST: Parallel Robust Online Simple Tracking

Poh, Norman

Workshop: Group-specific Score Normalization for Biometric Systems

Workshop: Handling High Dimensionality in Biometric Classification with Multiple Quality Measures using Locality Preserving Projection

Pohl, Kilian M.

Workshop: Groupwise Morphometric Analysis Based on High Dimensional Clustering

Pohl, Kilian

Shape-based Similarity Retrieval of Doppler Images for Clinical Decision Support

Poirier, Hervé

Large-Scale Image Retrieval with Compressed Fisher Vectors

Poline, Jean-Baptiste

Workshop: A Supervised Clustering Approach for Extracting Predictive Information from Brain Activation Images

Pollefeys, Marc

Disambiguating Visual Relations Using Loop Constraints

Segmenting Video Into Classes of Algorithm-Suitability

Probabilistic 3D Occupancy Flow with Latent Silhouette Cues

Demo: Real-Time Wide Area Visual SLAM

Demo: Dense Reconstruction from Millions of Images on a Single PC

Pomerleau, Dean

Food Recognition Using Statistics of Pairwise Local Features

Ponce, Jean

Non-uniform Deblurring for Shaken Images

Admissible Linear Map Models of Linear Cameras

Discriminative Clustering for Image Co-segmentation

Learning Mid-Level Features For Recognition

Pons-Moll, Gerard

Multisensor-Fusion for 3D Full-Body Human Motion Capture

Pons, Jean-Philippe

Robust Piecewise-Planar 3D Reconstruction and Completion from Large-Scale Unstructured Point Data

Popovic, Jovan

Demo: Practical Real-Time Hand-Tracking

Porikli, Fatih

Breaking the Interactive Bottleneck in Multi-class Classification with Active Selection and Binary Feedback

Workshop: RelCom: Relational Combinatorics Features for Rapid Object Detection

Prabhakar, Karthir

Temporal Causality for the Analysis of Visual Events

Pradeep, Vivek

Egomotion using Assorted Features

Workshop: Robot Vision for the Visually Impaired

Prasad, Mukta

Finding Nemo: Deformable Object Class Modelling using Curve Matching

Prati, Andrea

Workshop: Perspective and Appearance Context for People Surveillance in Open Areas

Prémont, Julien

Workshop: Camera-Projector Matching Using an Unstructured Video Stream

Pribanic, Tomislav

Workshop: Absolute Phase Mapping for One-shot Dense Pattern Projection

Price, Brian L.

Geodesic Graph Cut for Interactive Image Segmentation

Simultaneous Foreground, Background, and Alpha Estimation for Image Matting

Prince, Jerry L.

Workshop: Topology-Preserving STAPLE

Prince, Simon J. D.

"Lattice Cut" - Constructing Superpixels using Layer Constraints

Pulli, Kari

Workshop: Mobile Panoramic Imaging System

Workshop: Fast Image Stitching and Editing for Panorama Painting on Mobile Phones

Pundlik, Shrinivas J.

Workshop: Periocular Region Appearance Cues for Biometric Identification

Punithakumar, Kumaradevan

Graph Cut Segmentation with a Global Constraint: Recovering Region Distribution via a Bound of the Bhattacharyya Measure

Putthividhya, Duangmanee

Topic Regression Multi-Modal Latent Dirichlet Allocation for Image Annotation

Pylvänäinen, Timo

Dynamic and Scalable Large Scale Image Reconstruction

Q

Qin, Hong

Workshop: Active Lighting Learning for 3D Model Based Vehicle Tracking

Qin, Xueying

Transductive Segmentation of Live Video with Non-stationary Background

Qin, Zenglu

Using Optical Defocus to Denoise

Quack, Till

Workshop: Server-side Object Recognition and Client-side Object Tracking for Mobile Augmented Reality

Quan, Long

Rectilinear Parsing of Architecture in Urban Environment

Quek, Francis

Workshop: Using a Vision Based Tracking to Support Real-Time Graphical Instruction for Student Who Have Visual Impairments

R

Rabah, Hassan

Workshop: Dynamically Reconfigurable Architecture for Real Time Adaptation of H264/AVC-SVC Video Streams

Rabe, Clemens

Workshop: Real-Time Semi-Global Matching on the CPU

Radeva, Petia

Workshop: Spatio-Temporal GrabCut Human Segmentation for Face and Pose Recovery

Workshop: Aligning Endoluminal Scene Sequences in Wireless Capsule Endoscopy

Radig, Bernd

Workshop: A Graphical Model for Unifying Tracking and Classification within a Multimodal Human-Robot Interaction Scenario

Raducanu, Bogdan

Workshop: Single Snapshot-Based 3D Head Pose Initialization for Tracking in an HRI Scenario

Raguram, Rahul

Demo: Dense Reconstruction from Millions of Images on a Single PC

Rahardja, Susanto

Object Recognition by Discriminative Combinations of Line Segments and Ellipses

Rahman, Md Mahmudur

Workshop: Local Concept-Based Medical Image Retrieval with Correlation-Enhanced Similarity Matching Based on Global Analysis

Rajagopalan, Ambasamudram N.

Workshop: Unscented Transformation for Depth from Motion-Blur in Videos

Rajan, Deepu

Object Recognition by Discriminative Combinations of Line Segments and Ellipses

Hybrid Shift Map for Video Retargeting

Ramakrishnan, Veshnu

Workshop: Redundancy and Diversity Measure Inspired Biometrics Fusion

Ramalingam, Srikumar

Axial Light Field for Curved Mirrors: Reflect Your Perspective, Widen Your View

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Ramanan, Deva

Layered Object Detection for Multi-Class Segmentation

Workshop: Discriminative Models for Static Human-object Interactions

Ramesh, Visvanathan

Illumination Compensation Based Change Detection Using Order Consistency

Ramirez, Ignacio

Classification and Clustering via Dictionary Learning with Structured Incoherence and Shared Features

Ramisa, Arnau

Fast and Robust Object Segmentation with the Integral Linear Classifier

Demo: Fast and Robust Object Segmentation with the Integral Linear Classifier

Ramnath, Krishnan

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Ranzato, Marc'Aurelio

Modeling Pixel Means and Covariances Using Factorized Third-Order Boltzmann Machines

Raptis, Michalis

Spike Train Driven Dynamical Models for Human Actions

Rasheed, Zeeshan

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Raskar, Ramesh

Analysis of Light Transport in Scattering Media

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Ratha, Nalini

Workshop: QPLC: A Novel Multimodal Biometric Score Fusion Method

Workshop: Redundancy and Diversity Measure Inspired Biometrics Fusion

Rattani, Ajita

Workshop: Group-specific Score Normalization for Biometric Systems

Rav-Acha, Alex

Regenerative Morphing

Raytchev, Bisser

Demo: CUDA-based Implementations of Softassign and EM-ICP

Reale, Michael

Workshop: Viewing Direction Estimation Based on 3D Eyeball Construction for HRI

Rehg, James M.

Temporal Causality for the Analysis of Visual Events

Rehrl, Tobias

Workshop: A Graphical Model for Unifying Tracking and Classification within a Multimodal Human-Robot Interaction Scenario

Reid, Ian

Real-time Tracking of Multiple Occluding Objects using Level Sets

Growing Semantically Meaningful Models for Visual SLAM

Reinbacher, Christian

Variational Segmentation of Elongated Volumetric Structures

Ren, Jinchang

Workshop: Immersive and Perceptual Human-Computer Interaction Using Computer Vision Techniques

Ren, Ren

Geometric Properties of Multiple Reflections in Catadioptric Camera with Two Planar Mirrors

Ren, Xiaofeng

Figure-Ground Segmentation Improves Handled Object Recognition in Egocentric Video

Rescorla, Eric

Demo: OpenScan: Using Computer Vision to Achieve Transparency in Elections

Reyes, Miguel

Workshop: Spatio-Temporal GrabCut Human Segmentation for Face and Pose Recovery

Reznik, Yuriy

Workshop: Quantization Schemes for Low Bitrate Compressed Histogram of Gradient Descriptors

Rheingans, Penny

Workshop: An MRF-based Statistical Deformation Model for Morphological Image Analysis

Rhemann, Christoph

A Spatially Varying PSF-based Prior for Alpha Matting

Ribnick, Evan

Workshop: Passive 3D Sensing, and Reconstruction using Multi-View Imaging

Ricanek, Karl

Workshop: Face Age Estimation Using Model Selection

Workshop: A Hierarchical Approach to Facial Aging

Riccio, Daniel

Workshop: HERO: Human Ear Recognition against Occlusions

Richardson, Mark

Boundary Learning by Optimization with Topological Constraints

Riemenschneider, Hayko

Linked Edges as Stable Region Boundaries

Rigoll, Gerhard

Workshop: Automated Pose Estimation in 3D Point Clouds Applying Annealing Particle Filters and Inverse Kinematics on a GPU

Workshop: A Graphical Model for Unifying Tracking and Classification within a Multimodal Human-Robot Interaction Scenario

Workshop: Dense Spatio-Temporal Motion Segmentation for Tracking Multiple Self-Occluding People

Ringaby, Erik

Rectifying Rolling Shutter Video from Hand-held Devices

Rishabh, Ish

Workshop: Interactive Semantic Camera Coverage Determination using 3D Floorplans

Robertson, Neil M.

Workshop: Contextual Smoothing of Image Segmentation

Robles-Kelly, Antonio

Shape and Refractive Index Recovery from Single-View Polarisation Images

Röder, Thorsten

Demo: The OpenTL Framework for Model-based Visual Tracking

Rodolà, Emanuele

A Game-Theoretic Approach to Fine Surface Registration without Initial Motion Estimation

Rodriguez, Mikel

CRAM: Compact Representation of Actions in Movies

Rohrbach, Marcus

What Helps Where - And Why? Semantic Relatedness for Knowledge Transfer

Rojas, Mario

Automatic Point-based Facial Trait Judgments Evaluation

Rosenberg, Charles

Demo: Google Image Swirl: A Large-Scale Content-Based Image Browsing System

Rosenhahn, Bodo

Multilinear Pose and Body Shape Estimation of Dressed Subjects from Image Sets

Multisensor-Fusion for 3D Full-Body Human Motion Capture

Rosenholtz, Ruth

Exploring Features in a Bayesian Framework for Material Recognition

Ross, Arun

Workshop: Block Based Texture Analysis for Iris Classification and Matching

Ross, David A.

SPEC Hashing: Similarity Preserving Algorithm for Entropy-based Coding

Ross, Ian

Graph Cut Segmentation with a Global Constraint: Recovering Region Distribution via a Bound of the Bhattacharyya Measure

Roth, Erwin

Demo: The OpenTL Framework for Model-based Visual Tracking

Roth, Peter M.

Workshop: Context-driven Clustering by Multi-class Classification in an Active Learning Framework

Workshop: TransientBoost: On-line Boosting with Transient Data

Workshop: Multiple Instance Learning from Multiple Cameras

Roth, Stefan

Secrets of Optical Flow Estimation and Their Principles

A Generative Perspective on MRFs in Low-Level Vision

Automatic Discovery of Meaningful Object Parts with Latent CRFs

Monocular 3D Pose Estimation and Tracking by Detection

Rother, Carsten

Geodesic Star Convexity for Interactive Image Segmentation

A Spatially Varying PSF-based Prior for Alpha Matting

Surface Stereo with Soft Segmentation

Rouhani, Mohammad

Relaxing the 3L Algorithm for an Accurate Implicit Polynomial Fitting

Roux, Michel

Implicit Hierarchical Boosting for Multi-view Object Detection

Rowley, Henry A.

Demo: Google Image Swirl: A Large-Scale Content-Based Image Browsing System

Roy-Chowdhury, Amit K.

Multilinear Feature Extraction and Classification of Multi-Focal Images, With Applications in

Nematode Taxonomy

Roy, Sébastien

Workshop: Fast Probabilistic Estimation of Egomotion From Image Intensities.

Royer, Eric

Real-Time Vehicle Global Localisation with a Single Camera in Dense Urban Areas: Exploitation of Coarse 3D City Models

Workshop: Efficient Planar Features Matching for Robot Localization using GPU

Rudovic, Ognjen

Workshop: Facial Expression Invariant Head Pose Normalization using Gaussian Process Regression

Rushmeier, Holly

Workshop: An Integrated Image and Sketching Environment for Archaeological Sites

Russakovsky, Olga

A Steiner Tree Approach to Efficient Object Detection

Russell, Chris

Efficient Piecewise Learning for Conditional Random Fields

Russo, Stephen

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Rusu, Radu

Demo: Robot Vision and Manipulation on Willow Garage's PR2

S

Sabaté, Jordi Gonzàlez

Harmony Potentials for Joint Classification and Segmentation

Sadjadi, Firooz

Workshop: Passive 3D Sensing, and Reconstruction using Multi-View Imaging

Saffari, Amir

Online Multi-Class LPBoost

On-line Semi-supervised Multiple-Instance Boosting

PROST: Parallel Robust Online Simple Tracking

Sagawa, Ryusuke

Workshop: One-shot Scanning Method using an Uncalibrated Projector and Camera System

Sahillioğlu, Yusuf

3D Shape Correspondence by Isometry-Driven Greedy Optimization

Sakaue, Fumihiko

Multiview Constraints in Frequency Space and Camera Calibration from Unsynchronized Images

Salah, Mohamed Ben

Finding Image Distributions on Active Curves

Saleemi, Imran

Scene Understanding by Statistical Modeling of Motion Patterns

Salganicoff, Marcos

Stratified Learning of Local Anatomical Context for Lung Nodules in CT Images

Saltz, Joel

Workshop: Two-Point Correlation as a Feature for Histology Images: Feature Space Structure and Correlation Updating

Salvi, Dhaval

Free-Shape Subwindow Search for Object Localization

Salvi, Joaquim

Workshop: Absolute Phase Mapping for One-shot Dense Pattern Projection

Salzmann, Mathieu

Combining Discriminative and Generative Methods for 3D Deformable Surface and Articulated Pose Reconstruction

Samaras, Dimitris

Dense Non-rigid Surface Registration Using High-Order Graph Matching

Samuel, Kegan G. G.

Learning to Recognize Shadows in Monochromatic Natural Images

Sánchez-Riera, Jordi

Simultaneous Pose, Correspondence and Non-Rigid Shape

Sánchez, Jorge

Large-Scale Image Retrieval with Compressed Fisher Vectors

Large-Scale Image Categorization with Explicit Data Embedding

Sanders, Donald

Workshop: REVEAL Intermediate Report

Workshop: Estimating Gothic Facade Architecture from Imagery

Sanfeliu, Alberto

Efficient Rotation Invariant Object Detection using Boosted Random Ferns

Sankaranarayanan, Aswin C.

Specular Surface Reconstruction from Sparse Reflection Correspondences

Sankaranarayanan, Aswin

Workshop: Real Time Head Pose Tracking from Multiple Cameras with a Generic Model

Sankur, Bülent

Workshop: Facial Action Unit Detection: 3D versus 2D Modality

Santner, Jakob

PROST: Parallel Robust Online Simple Tracking

Workshop: FlowGames

Sapiro, Guillermo

Classification and Clustering via Dictionary Learning with Structured Incoherence and Shared Features

Sapkota, Archana

Workshop: FACE-GRAB: Face Recognition with General Region Assigned to Binary Operator

Sapp, Benjamin

Adaptive Pose Priors for Pictorial Structures

Talking Pictures: Temporal Grouping and Dialog-Supervised Person Recognition

Sappa, Angel D.

Relaxing the 3L Algorithm for an Accurate Implicit Polynomial Fitting

Saragih, Jason

Workshop: The Extended Cohn-Kanade Dataset (CK+): A Complete Dataset for Action Unit and Emotion-specified Expression

Sargin, Mehmet Emre

Generalized Simultaneous Registration and Segmentation

Sato, Jun

Multiview Constraints in Frequency Space and Camera Calibration from Unsynchronized Images

Sato, Yoichi

Calibration-free Gaze Sensing using Saliency Maps

Savarese, Silvio

Toward Coherent Object Detection And Scene Layout Understanding

Savran, Arman

Workshop: Facial Action Unit Detection: 3D versus 2D Modality

Savvides, Marios

An Extension of Multifactor Analysis for Face Recognition Based on Submanifold Learning

Sawabe, Masashi

Workshop: Precomputed ROMP for Light Transport Acquisition

Sawhney, Harpreet

Vehicle Detection and Tracking in Wide Field-of-View Aerial Video

3D Model Based Vehicle Classification in Aerial Imagery

Sbaiz, Luciano

Finding Meaning on YouTube: Tag Recommendation and Category Discovery

Schalek,, Richard

Boundary Learning by Optimization with Topological Constraints

Scharr, Hanno

Diffusion Filtering Without Parameter Tuning: Models and Inference Tools

Scheffer, Lou

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Scheibel, Kevin

Metric-Induced Optimal Embedding for Intrinsic 3D Shape Analysis

Scheirer, Walter J.

Workshop: A Taxonomy of Face-models for System Evaluation

Scheirer, Walter

Workshop: FACE-GRAB: Face Recognition with General Region Assigned to Binary Operator

Schiele, Bernt

Multi-Cue Pedestrian Classification With Partial Occlusion Handling

What Helps Where - And Why? Semantic Relatedness for Knowledge Transfer

Automatic Discovery of Meaningful Object Parts with Latent CRFs

New Features and Insights for Pedestrian Detection

Monocular 3D Pose Estimation and Tracking by Detection

Schindler, Grant

Probabilistic Temporal Inference on Reconstructed 3D Scenes

Schindler, Konrad

New Features and Insights for Pedestrian Detection

Schlegel, Daniel R.

Demo: Armchair Interface: Computer Vision for General HCI

Schmalstieg, Dieter

Workshop: Instant Segmentation and Feature Extraction for Recognition of Simple Objects on Mobile Phones

Schmalz, Christoph

Workshop: A Graph-Based Approach for Robust Single-Shot Structured Light

Schmid, Cordelia

Multimodal Semi-supervised Learning for Image Classification

Aggregating Local Descriptors into a Compact Image Representation

Multi-View Object Class Detection with a 3D Geometric Model

Demo: Aggregating Descriptors to Index 10 Million Images on a Laptop

Schmidt, Uwe

A Generative Perspective on MRFs in Low-Level Vision

Schneider, Matthias

Model-Based Respiratory Motion Compensation for Image-Guided Cardiac Interventions

Schnieders, Dirk

Reconstruction of Display and Eyes from a Single Image

Schnitzspan, Paul

Automatic Discovery of Meaningful Object Parts with Latent CRFs

Schölkopf, Bernhard

Efficient Filter Flow for Space-Variant Multiframe Blind Deconvolution

Schraml, Stephan

Workshop: A Real-time Pedestrian Classification Method for Event-based Dynamic Stereo Vision

Workshop: Real-time Classification of Pedestrians and Cyclists for Intelligent Counting of Non-Motorized Traffic

Workshop: A Spatio-temporal Clustering Method Using Real-time Motion Analysis on Event-based

3D Vision

Schuon, Sebastian

3D Shape Scanning with a Time-of-Flight Camera

Workshop: The HPU

Sclaroff, Stan

Fast Globally Optimal 2D Human Detection with Loopy Graph Models

Šegvić, Siniša

Workshop: Generative Modeling of Spatio-temporal Traffic Sign Trajectories

Seidel, Hans-Peter

Optimal HDR Reconstruction with Linear Digital Cameras

Multilinear Pose and Body Shape Estimation of Dressed Subjects from Image Sets

Multisensor-Fusion for 3D Full-Body Human Motion Capture

Exploiting Global Connectivity Constraints for Reconstruction of 3D Line Segments from Images

Seitz, Steve M.

Towards Internet-scale Multi-view Stereo

Generating Sharp Panoramas from Motion-blurred Videos

Regenerative Morphing

Seo, Yongduek

Global Optimization for Estimating a BRDF with Multiple Specular Lobes

Sethuram, Amrutha

Workshop: A Hierarchical Approach to Facial Aging

Shacham, Hovav

Demo: OpenScan: Using Computer Vision to Achieve Transparency in Elections

Shah, Mubarak

Human Identity Recognition in Aerial Images

Chaotic Invariants of Lagrangian Particle Trajectories for Anomaly Detection in Crowded Scenes

Scene Understanding by Statistical Modeling of Motion Patterns

Shah, Shishir K.

A Shape-Driven MRF Model for the Segmentation of Organs in Medical Images

Shaji, Appu

Simultaneous Point Matching and 3D Deformable Surface Reconstruction

Shamir, Ariel

Motion Fields to Predict Play Evolution in Dynamic Sport Scenes

Shan, Qi

Using Optical Defocus to Denoise

Shan, Shiguang

Adaptive Generic Learning for Face Recognition from a Single Sample per Person

Shanmugavadivel, S. Karthikeyan

Anatomical Parts-Based Regression Using Non-Negative Matrix Factorization

Shao, Xiaowei

An Online Approach: Learning-Semantic-Scene-by-Tracking and Tracking-by-Learning-Semantic-Scene

Sharan, Lavanya

Exploring Features in a Bayesian Framework for Material Recognition

Sharma, Gaurav

Workshop: Distributed Calibration of Pan-Tilt Camera Network using Multi-Layered Belief Propagation

Sharma, Ojaswa

Multi-domain, Higher Order Level Set Scheme for 3D Image Segmentation on the GPU

Shechtman, Eli

Regenerative Morphing

Shen, Chunhua

Rapid Face Recognition Using Hashing

Shen, Dinggang

ABSORB: Atlas Building by Self-Organized Registration and Bundling

Shen, Jialie

Weakly-Supervised Hashing in Kernel Space

Shen, Xiaohui

Sparsity Model for Robust Optical Flow Estimation at Motion Discontinuities

Shen, Yi

Harvesting Large-Scale Weakly-Tagged Image Databases from the Web

Shen, Zuowei

Robust Video Denoising using Low Rank Matrix Completion

Sheng, Yu

Workshop: Dynamic Projection Environments for Immersive Visualization

Shi, Boxin

Self-calibrating Photometric Stereo

Shi, Jianbo

Many-to-one Contour Matching for Describing and Discriminating Object Shape

Shi, Qinfeng

Rapid Face Recognition Using Hashing

Shi, Yonggang

Metric-Induced Optimal Embedding for Intrinsic 3D Shape Analysis

Shibasaki, Ryosuke

An Online Approach: Learning-Semantic-Scene-by-Tracking and Tracking-by-Learning-Semantic-Scene

Shimizu, Masao

Image Restoration and Disparity Estimation from an Uncalibrated Multi-Layered Image

Shin, Sung Yong

Coded Exposure Imaging for Projective Motion Deblurring

Shin, Young Min

Unsupervised Detection and Segmentation of Identical Objects

Shinagawa, Yoshihisa

Stratified Learning of Local Anatomical Context for Lung Nodules in CT Images

Shokoufandeh, Ali

Workshop: Classification of Archaeological Ceramic Fragments Using Texture and Color Descriptors

Shroff, Nitesh

Moving Vistas: Exploiting Motion for Describing Scenes

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Shu, Chang

Posture Invariant Surface Description and Feature Extraction

Shu, Chiao-fe

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Shum, Heung-Yeung

Interest Seam Image

Scalable Face Image Retrieval with Identity-Based Quantization and Multi-Reference Re-ranking

Shyr, Alex

Sufficient Dimension Reduction for Visual Sequence Classification

Siddiqui, Matheen

Workshop: Human Pose Estimation from a Single View Point, Real-Time Range Sensor

Siddiquie, Behjat

Beyond Active Noun Tagging: Modeling Contextual Interactions for Multi-Class Active Learning

Sigal, Leonid

Dynamical Binary Latent Variable Models for 3D Human Pose Tracking

Sikirić, Ivan

Workshop: Generative Modeling of Spatio-temporal Traffic Sign Trajectories

Sim, Terence

Correcting Over-Exposure in Photographs

Robust Flash Deblurring

Towards General Motion-Based Face Recognition

Simon, Loïc

Segmentation of Building Facades Using Procedural Shape Priors

Simon, Tomas

Action Unit Detection with Segment-based SVMs

Singh, Maneesh

Illumination Compensation Based Change Detection Using Order Consistency

Singh, Vikas

Learning Kernels for Variants of Normalized Cuts: Convex Relaxations and Applications

Singh, Vivek Kumar

Learning 3D Action Models from a Few 2D Videos for View Invariant Action Recognition
Workshop: Multiple Pose Context Trees for Estimating Human Pose in Object Context

Singhal, Nitin

Workshop: Mobile Photo Collage

Sinusas, Albert J.

Workshop: Vascular Tree Reconstruction by Minimizing A Physiological Functional Cost

Sitjes, Josep M. Gonfaus

Harmony Potentials for Joint Classification and Segmentation

Sivic, Josef

Non-uniform Deblurring for Shaken Images

Sizintsev, Mikhail

Efficient Action Spotting Based on a Spacetime Oriented Structure Representation

Slomp, Marcos

Demo: CUDA-based Implementations of Softassign and EM-ICP

Sminchisescu, Cristian

Object Recognition as Ranking Holistic Figure-Ground Hypotheses
Constrained Parametric Min-Cuts for Automatic Object Segmentation

Smith, Brandon M.

Model Evolution: An Incremental Approach to Non-Rigid Structure from Motion

Smith, Martin

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Smith, Patrick

Workshop: Classification of Archaeological Ceramic Fragments Using Texture and Color Descriptors

Smith, William A. P.

Refinement of Digital Elevation Models from Shadowing Cues

Snoek, Jasper

Workshop: Automatic Segmentation of Video to Aid the Study of Faucet Usability for Older Adults

Soatto, Stefano

Warping Background Subtraction

Curious Snakes: A Minimum Latency Solution to the Cluttered Background Problem in Active Contours

Spike Train Driven Dynamical Models for Human Actions

Demo: Tracking and Recognition on a Hand-held

Socher, Richard

Connecting Modalities: Semi-supervised Segmentation and Annotation of Images Using Unaligned Text Corpora

Sofka, Michal

Multiple Object Detection by Sequential Monte Carlo and Hierarchical Detection Network

Song, Qi

Simultaneous Searching of Globally Optimal Interacting Surfaces with Shape Priors

Song, Xuan

An Online Approach: Learning-Semantic-Scene-by-Tracking and Tracking-by-Learning-Semantic-Scene

Song, Yang

Taxonomic Classification for Web-based Videos
YouTubeCat: Learning to Categorize Wild Web Videos
Demo: YoutubeCat: Categorizing Wild Youtube Videos

Sonka, Milan

Simultaneous Searching of Globally Optimal Interacting Surfaces with Shape Priors

Sontag, Eduardo

Rapid and Accurate Developmental Stage Recognition of *C. elegans* from High-throughput Image Data

Spiro, Ian

Workshop: Hands by Hand: Crowd-sourced Motion Tracking for Gesture Annotation

Sprechmann, Pablo

Classification and Clustering via Dictionary Learning with Structured Incoherence and Shared Features

Sra, Suvrit

Efficient Filter Flow for Space-Variant Multiframe Blind Deconvolution

Sridharan, Ramesh

Workshop: Nonparametric Hierarchical Bayesian Model for Functional Brain Parcellation

Srinivasan, Praveen

Many-to-one Contour Matching for Describing and Discriminating Object Shape

Srivastava, Anuj

A Novel Riemannian Framework for Shape Analysis of 3D Objects
Workshop: A Fully Statistical Framework for Shape Detection in Image Primitives

Staub, Lawrence

Workshop: Constrained Non-rigid Registration Using Lagrange Multipliers for Application in Prostate Radiotherapy

Stam, Joseph

Demo: OpenCV on NVidia Stereoids

Stark, Michael

What Helps Where - And Why? Semantic Relatedness for Knowledge Transfer

Starner, Thad

Workshop: A Novel Approach to American Sign Language (ASL) Phrase Verification using Reversed Signing

Stavens, David

Unsupervised Learning of Invariant Features Using Video

Steadly, Drew

Pushing the Envelope of Modern Methods for Bundle Adjustment

Stenger, Björn

Workshop: Online Multiple Classifier Boosting for Object Tracking

Sternig, Sabine

Workshop: Context-driven Clustering by Multi-class Classification in an Active Learning Framework

Workshop: TransientBoost: On-line Boosting with Transient Data

Stevens, Mark

Workshop: Action Recognition in Spatiotemporal Volume

Stilla, Uwe

Workshop: Airborne Analysis and Assessment of Urban Traffic Scenes from LiDAR Data – Theory and Experiments

Storer, Markus

Workshop: Occlusion Detection for ICAO Compliant Facial Photographs

Strandmark, Petter

Parallel and Distributed Graph Cuts by Dual Decomposition

Strasdat, Hauke

Scalable Active Matching

Strecha, Christoph

Dynamic and Scalable Large Scale Image Reconstruction

Strobl, Reto

Demo: YoutubeCat: Categorizing Wild Youtube Videos

Ström, Jacob

Workshop: Removing Motion Blur from Barcode Images

Sturm, Peter

Estimating Satellite Attitude from Pushbroom Sensors

Workshop: One-shot Scanning Method using an Uncalibrated Projector and Camera System

Sturzel, Marc

Implicit Hierarchical Boosting for Multi-view Object Detection

Su, Jingyong

Workshop: A Fully Statistical Framework for Shape Detection in Image Primitives

Su, Yu

Adaptive Generic Learning for Face Recognition from a Single Sample per Person

Sudol, Jeremi

Workshop: LookTel—A Comprehensive Platform for Computer-Aided Visual Assistance

Suen, Ching Y.

Workshop: Spectral Regression based Age Determination

Suenaga, Tsuyoshi

Surface Color Estimation Based on Inter- and Intra-Pixel Relationships in Outdoor Scenes

Sugano, Yusuke

Calibration-free Gaze Sensing using Saliency Maps

Sugaya, Yoshiko

Workshop: Contrasting Shadow for Occluder Light Suppression from One-Shot Image

Sui, Yunfeng

Workshop: Estimating Gothic Facade Architecture from Imagery

Sukthankar, Rahul

Optimizing One-Shot Recognition with Micro-Set Learning

Food Recognition Using Statistics of Pairwise Local Features

Sun, Deqing

Secrets of Optical Flow Estimation and Their Principles

Sun, Jian

Context-Constrained Hallucination for Image Super-Resolution

AAM based Face Tracking with Temporal Matching and Face Segmentation

Fast Matting Using Large Kernel Matting Laplacian Matrices

Parallel Graph-cuts by Adaptive Bottom-up Merging

Face Recognition with Learning-based Descriptor

Scalable Face Image Retrieval with Identity-Based Quantization and Multi-Reference Re-ranking

Sun, Min

Toward Coherent Object Detection And Scene Layout Understanding

Sun, Xiaoshuai

Towards Semantic Embedding in Visual Vocabulary

Sundar, Hari

Model-Based Respiratory Motion Compensation for Image-Guided Cardiac Interventions

Sundaramoorthi, Ganesh

Curious Snakes: A Minimum Latency Solution to the Cluttered Background Problem in Active Contours

Sunder, Manisha Sam

Workshop: Block Based Texture Analysis for Iris Classification and Matching

Sung, Eric

Workshop: Boosting Dense SIFT Descriptors and Shape Contexts of Face Images for Gender Recognition

Suter, David

Multi-Structure Model Selection via Kernel Optimisation

Syeda-Mahmood, Tanveer

Shape-based Similarity Retrieval of Doppler Images for Clinical Decision Support

Workshop: Cardiac Disease Detection from Echocardiogram using Edge Filtered Scale-invariant Motion Features

Szarvas, György

What Helps Where - And Why? Semantic Relatedness for Knowledge Transfer

Szeliski, Richard

Towards Internet-scale Multi-view Stereo

A Content-Aware Image Prior

Removing Rolling Shutter Wobble

Pushing the Envelope of Modern Methods for Bundle Adjustment

Szlam, Arthur

Randomized Hybrid Linear Modeling by Local Best-fit Flats

Sznaier, Mario

GPCA with Denoising: A Moments-Based Convex Approach

T**Taati, Babak**

Workshop: Automatic Segmentation of Video to Aid the Study of Faucet Usability for Older Adults

Taguchi, Yuichi

Axial Light Field for Curved Mirrors: Reflect Your Perspective, Widen Your View

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Tai, Xuecheng

A Study on Continuous Max-Flow and Min-Cut Approaches

Tai, Yu-Wing

Super Resolution using Edge Prior and Single Image Detail Synthesis

Coded Exposure Imaging for Projective Motion Deblurring

A Framework for Ultra High Resolution 3D Imaging

Takacs, Gabriel

Unified Real-Time Tracking and Recognition with Rotation-Invariant Fast Features

Demo: Unified Tracking and Recognition with Rotation-Invariant Fast Features

Workshop: Quantization Schemes for Low Bitrate Compressed Histogram of Gradient Descriptors

Takaki, Masanari

Workshop: Feature Co-occurrence Representation Based on Boosting for Object Detection

Takamatsu, Jun

Surface Color Estimation Based on Inter- and Intra-Pixel Relationships in Outdoor Scenes

Estimating Demosaicing Algorithms using Image Noise Variance

Takemura, Kentaro

Surface Color Estimation Based on Inter- and Intra-Pixel Relationships in Outdoor Scenes

Tal, Ayellet

Context-Aware Saliency Detection

Talbot, Hugues

The Phase Only Transform for Unsupervised Surface Defect Detection

Tamaki, Toru

Demo: CUDA-based Implementations of Softassign and EM-ICP

Tan, Jookooi

Workshop: Action Recognition by Employing Combined Directional Motion History and Energy Images

Tan, Ping

Self-calibrating Photometric Stereo

Tan, Robby T.

Estimating Optical Properties of Layered Surfaces Using the Spider Model

Tan, Tieniu

Visual Tracking via Incremental Self-tuning Particle Filtering on the Affine Group

Tan, Wei-Chian

Estimating Camera Pose from a Single Urban Ground-View Omnidirectional Image and a 2D Building Outline Map

Tan, Yap-Peng

Cost-Sensitive Subspace Learning for Face Recognition

Workshop: Ordinary Preserving Manifold Analysis for Human Age Estimation

Workshop: Respiratory Rate Estimation via Simultaneously Tracking and Segmentation

Tanaka, Masayuki

Direct Image Alignment of Projector-Camera Systems with Planar Surfaces

Tanaskovic, Marko

Workshop: Wrong Turn – No Dead End: a Stochastic Pedestrian Motion Model

Tang, Chi-keung

Quasi-Dense 3D Reconstruction using Tensor-based Multiview Stereo

Tang, Jinhui

Nonparametric Label-to-Region by Search

Tang, Kevin D.

Optimizing One-Shot Recognition with Micro-Set Learning

Tang, Lisa

Workshop: Graph-based Tracking of Tongue Contour in Ultrasound Sequences with Adaptive Temporal Regularization

Tang, Xiaoou

Object Cut: Complex 3D Object Reconstruction Through Line Drawing Separation

Isoperimetric Cut on a Directed Graph

Fast Matting Using Large Kernel Matting Laplacian Matrices

Face Recognition with Learning-based Descriptor

Tao, Litian

Efficient Histogram-Based Sliding Window

Tappen, Marshall F.

Learning to Recognize Shadows in Monochromatic Natural Images

Context-Constrained Hallucination for Image Super-Resolution

Optimizing One-Shot Recognition with Micro-Set Learning

Tardos, Éva

Globally Optimal Pixel Labeling Algorithms for Tree Metrics

Tarsetti, Flavio

Demo: MOBIO: Mobile Biometric Face and Speaker Authentication

Taskar, Ben

Object Detection via Boundary Structure Segmentation

Detecting and Parsing Architecture at City Scale from Range Data

Adaptive Pose Priors for Pictorial Structures

Talking Pictures: Temporal Grouping and Dialog-Supervised Person Recognition

Workshop: Application of Trace-Norm and Low-Rank Matrix Decomposition for Computational Anatomy

Taslidere, Ezgi

Workshop: Virtual Reconstruction of Archaeological Vessels using Expert Priors & Surface Markings

Taubin, Gabriel

Workshop: REVEAL Intermediate Report

Workshop: Robust One-Shot 3D Scanning Using Loopy Belief Propagation

Taylor, Geoff

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Taylor, Graham W.

Dynamical Binary Latent Variable Models for 3D Human Pose Tracking

Deconvolutional Networks

Taylor, Graham

Workshop: Hands by Hand: Crowd-sourced Motion Tracking for Gesture Annotation

Taylor, Jonathan

Non-Rigid Structure from Locally-Rigid Motion

Teboul, Olivier

Segmentation of Building Facades Using Procedural Shape Priors

Teller, Seth

Workshop: Appearance-based Object Reacquisition for Mobile Manipulation

Temlyakov, Andrew

Two Perceptually Motivated Strategies for Shape Classification

Theißing, Nikolaus

Workshop: A Graphical Model for Unifying Tracking and Classification within a Multimodal Human-Robot Interaction Scenario

Theobalt, Christian

Optimal HDR Reconstruction with Linear Digital Cameras
3D Shape Scanning with a Time-of-Flight Camera

Theoharis, Theoharis

Bidirectional Relighting for 3D-aided 2D Face Recognition

Thirion, Bertrand

Workshop: A Supervised Clustering Approach for Extracting Predictive Information from Brain Activation Images

Thoma, George R.

Workshop: Local Concept-Based Medical Image Retrieval with Correlation-Enhanced Similarity Matching Based on Global Analysis

Thompson, Paul

Compression of Surface Registrations using Beltrami Coefficients

Thormählen, Thorsten

Multilinear Pose and Body Shape Estimation of Dressed Subjects from Image Sets
Exploiting Global Connectivity Constraints for Reconstruction of 3D Line Segments from Images

Thornton, Jay

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Thrun, Sebastian

Upsampling Range Data in Dynamic Environments
3D Shape Scanning with a Time-of-Flight Camera
Unsupervised Learning of Invariant Features Using Video
Real Time Motion Capture using a Single Time-Of-Flight Camera

Tian, Tai-Peng

Fast Globally Optimal 2D Human Detection with Loopy Graph Models

Tian, Yingli

Workshop: Door Detection via Signage Context-based Hierarchical Compositional Model
Workshop: Robust Door Detection in Unfamiliar Environments by Combining Edge and Corner Features

Tian, Yuandong

A Globally Optimal Data-Driven Approach for Image Distortion Estimation

Tico, Marius

Workshop: Mobile Panoramic Imaging System

Tistarelli, Massimo

Workshop: Group-specific Score Normalization for Biometric Systems

Toderici, George

Bidirectional Relighting for 3D-aided 2D Face Recognition

Finding Meaning on YouTube: Tag Recommendation and Category Discovery

Todorov, Alexander

Automatic Point-based Facial Trait Judgments Evaluation

Toews, Matthew

Workshop: Gender Classification from Unconstrained Video Sequences

Workshop: A Mutual-Information Scale-space for Image Feature Detection and Feature-based Classification of Volumetric Brain Images

Toga, Arthur W.

Metric-Induced Optimal Embedding for Intrinsic 3D Shape Analysis

Diffeomorphic Sulcal Shape Analysis for Cortical Surface Registration

Toledo, Ricardo

Fast and Robust Object Segmentation with the Integral Linear Classifier

Demo: Fast and Robust Object Segmentation with the Integral Linear Classifier

Tome, Pedro

Workshop: Scenario-Based Score Fusion for Face Recognition at a Distance

Tommasi, Tatiana

Safety in Numbers: Learning Categories from Few Examples with Multi Model Knowledge Transfer

Tong, Yan

Workshop: Improving Biometric Identification Through Quality-based Face and Fingerprint Biometric Fusion

Torabi, Atousa

Workshop: Feedback Scheme for Thermal-visible Video Registration, Sensor Fusion, and People Tracking

Torki, Marwan

One-Shot Multi-Set Non-rigid Feature-Spatial Matching

Putting Local Features on a Manifold

Torr, Philip H. S.

Discrete Minimum Ratio Curves and Surfaces

Efficient Piecewise Learning for Conditional Random Fields

Torralba, Antonio

Exploiting Hierarchical Context on a Large Database of Object Categories

Part and Appearance Sharing: Recursive Compositional Models for Multi-View Multi-Object Detection

SUN Database: Large Scale Scene Recognition from Abbey to Zoo

Torresani, Lorenzo

Simultaneous Point Matching and 3D Deformable Surface Reconstruction

Torsello, Andrea

A Game-Theoretic Approach to Fine Surface Registration without Initial Motion Estimation

Toshev, Alexander

Object Detection via Boundary Structure Segmentation
Detecting and Parsing Architecture at City Scale from Range Data

Triggs, Bill

Face Recognition Based on Image Sets

Trinh, Hoang

Workshop: Structure and Motion from Road-Driving Stereo Sequences

Trinh, Nhon H.

Workshop: Learning Prototypical Shapes for Object Categories

Trivedi, Mohan

Workshop: Attention Estimation by Simultaneous Observation of Viewer and View

Tsai, Sam

Unified Real-Time Tracking and Recognition with Rotation-Invariant Fast Features

Demo: Unified Tracking and Recognition with Rotation-Invariant Fast Features

Workshop: Quantization Schemes for Low Bitrate Compressed Histogram of Gradient Descriptors

Tsang, Ivor Wai-Hung

Local Features Are Not Lonely - Laplacian Sparse Coding for Image Classification

Visual Event Recognition in Videos by Learning from Web Data

Tag-based Web Photo Retrieval Improved by Batch Mode Re-Tagging

Tsuji, Akira

Silhouette Transformation based on Walking Speed for Gait Identification

Tsumura, Norimichi

Workshop: Precomputed ROMP for Light Transport Acquisition

Tu, Zhuowen

Workshop: Sparse Semi-Supervised Learning for Perceptual Grouping

Tung, Tony

Dynamic Surface Matching by Geodesic Mapping for 3D Animation Transfer

Turaga, Pavan

Moving Vistas: Exploiting Motion for Describing Scenes

Shape-based Similarity Retrieval of Doppler Images for Clinical Decision Support

Türetken, Engin

Delineating Trees in Noisy 2D Images and 3D Image-Stacks

Turk, Matthew

Workshop: Location-based Augmented Reality on Mobile Phones

Turtinen, Markus

Demo: MOBIO: Mobile Biometric Face and Speaker Authentication

Tuytelaars, Tinne

Dense Interest Points

Tuzel, Oncel

Fast Directional Chamfer Matching

Specular Surface Reconstruction from Sparse Reflection Correspondences
Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Tyagi, Vivek

Workshop: QPLC: A Novel Multimodal Biometric Score Fusion Method

Tzimiropoulos, Georgios

Bidirectional Relighting for 3D-aided 2D Face Recognition

U

Uhl, Andreas

Workshop: Predicting the Histology of Colorectal Lesions in a Probabilistic Framework

Ullman, Shimon

The Chains Model for Detecting Parts by their Context

Ulrich, Markus

Model Globally, Match Locally: Efficient and Robust 3D Object Recognition

Ulusoy, Ali Osman

Workshop: Robust One-Shot 3D Scanning Using Loopy Belief Propagation

Urschler, Martin

Workshop: Occlusion Detection for ICAO Compliant Facial Photographs

Urtasun, Raquel

Combining Discriminative and Generative Methods for 3D Deformable Surface and Articulated Pose Reconstruction

Sufficient Dimension Reduction for Visual Sequence Classification

V

V, Muralidharan

Workshop: An Efficient Fashion-driven Learning Approach to Model User Preferences in On-Line Shopping Scenarios

Valko, Michal

Workshop: Online Semi-Supervised Perception: Real-Time Learning without Explicit Feedback

Valstar, Michel

Facial Point Detection using Boosted Regression and Graph Models

Van de Weijer, Joost

Harmony Potentials for Joint Classification and Segmentation

van den Hengel, Anton

Efficient Computation of Robust Low-Rank Matrix Approximations in the Presence of Missing Data using the L1 Norm

Van der Maaten, Laurens

Workshop: Capturing Appearance Variation in Active Appearance Models

Van Gool, Luc

An Object-Dependent Hand Pose Prior from Sparse Training Data

Exploiting Simple Hierarchies for Unsupervised Human Behavior Analysis

What's going on? Discovering Spatio-Temporal Dependencies in Dynamic Scenes

Tracking the Invisible: Learning Where the Object Might be

A Hough Transform-Based Voting Framework for Action Recognition

Finding Nemo: Deformable Object Class Modelling using Curve Matching

Workshop: Server-side Object Recognition and Client-side Object Tracking for Mobile Augmented Reality

Workshop: Wrong Turn – No Dead End: a Stochastic Pedestrian Motion Model

Vanegas, Carlos A.

Building Reconstruction using Manhattan-World Grammars

Varnavas, Andreas

Workshop: Dense Photometric Stereo Reconstruction on Many Core GPUs

Varol, Aydin

Simultaneous Point Matching and 3D Deformable Surface Reconstruction

Vasconcelos, Nuno

On the Design of Robust Classifiers for Computer Vision

Anomaly Detection in Crowded Scenes

Vázquez-Reina, Amelio

Workshop: Radon-Like Features and their Application to Connectomics

Vázquez, David

Learning Appearance in Virtual Scenarios for Pedestrian Detection

Vécsei, Andreas

Workshop: Predicting the Histology of Colorectal Lesions in a Probabilistic Framework

Vedaldi, Andrea

Efficient Additive Kernels via Explicit Feature Maps

Vedantham, Ramakrishna

Demo: Unified Tracking and Recognition with Rotation-Invariant Fast Features

Veeraraghavan, Ashok

Robust RVM Regression Using Sparse Outlier Model

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Fast Directional Chamfer Matching

Specular Surface Reconstruction from Sparse Reflection Correspondences

Axial Light Field for Curved Mirrors: Reflect Your Perspective, Widen Your View

Optimal Coded Sampling for Temporal Super-Resolution

Demo: A Practical and Robust System for Object Detection and Pose Estimation in Heavy Clutter using Active Illumination

Veksler, Olga

Tiered Scene Labeling with Dynamic Programming

Veldhuis, Raymond N. J.

Workshop: Complex Spectral Minutiae Representation For Fingerprint Recognition

Vemuri, Baba C.

Total Bregman Divergence and its Applications to Shape Retrieval

Image Atlas Construction via Intrinsic Averaging on the Manifold of Images

Venkataraman, Archana

Workshop: Robust Feature Selection in Resting-State fMRI Connectivity Based on Population Studies

Venkataraman, Vijay

Workshop: RelCom: Relational Combinatorics Features for Rapid Object Detection

Venkatesh, Svetha

Exploiting Monge Structures in Optimum Subwindow Search

Verbeek, Jakob

Multimodal Semi-supervised Learning for Image Classification

Improving Web Image Search Results using Query-relative Classifiers

Vezhnevets, Alexander

Towards Weakly Supervised Semantic Segmentation by Means of Multiple Instance and Multitask Learning.

Vezzani, Roberto

Workshop: Event Driven Software Architecture for Multi-camera and Distributed Surveillance Research Systems

Vijayanarasimhan, Sudheendra

Far-Sighted Active Learning on a Budget for Image and Video Recognition

Visual Recognition and Detection Under Bounded Computational Resources

Workshop: Top-Down Pairwise Potentials for Piecing Together Multi-Class Segmentation Puzzles

Villamizar, Michael

Efficient Rotation Invariant Object Detection using Boosted Random Ferns

Vinciarelli, Alessandro

Workshop: Socially Intelligent Surveillance and Monitoring: Analysing Social Dimensions of Physical Space

Vitaladevuni, Shiv N.

Co-clustering of Image Segments Using Convex Optimization Applied to EM Neuronal Reconstruction

Vitaladevuni, Shiv

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Vitrià, Jordi

Automatic Point-based Facial Trait Judgments Evaluation

Workshop: Aligning Endoluminal Scene Sequences in Wireless Capsule Endoscopy

Vlachos, Theodore

Workshop: Immersive and Perceptual Human-Computer Interaction Using Computer Vision Techniques

Vogiatzis, George

Demo: Video-based, Real-Time Multi View Stereo

Vogtenhuber, Stefan

Workshop: A Socio-Technical Approach for Event Detection in Security Critical Infrastructure

Vol, Ilya

Workshop: Indoor-Outdoor Detector for Mobile Phone Cameras Using Gentle Boosting

Vu, Diem

Workshop: An Efficient Fashion-driven Learning Approach to Model User Preferences in On-Line Shopping Scenarios

Vul, Edward

Workshop: Nonparametric Hierarchical Bayesian Model for Functional Brain Parcellation

W

Wachinger, Christian

Workshop: Structural Image Representation for Image Registration

Wachsmuth, Sven

Workshop: Facial Expressions as Feedback Cue in Human-Robot Interaction — A Comparison between Human and Automatic Recognition Performances

Waggoner, Jarrell W

Two Perceptually Motivated Strategies for Shape Classification

Waggoner, Jarrell

Free-Shape Subwindow Search for Object Localization

Walk, Stefan

New Features and Insights for Pedestrian Detection

Wallhoff, Frank

Workshop: A Graphical Model for Unifying Tracking and Classification within a Multimodal Human-Robot Interaction Scenario

Walter, Matthew R.

Workshop: Appearance-based Object Reacquisition for Mobile Manipulation

Wand, Michael

Optimal HDR Reconstruction with Linear Digital Cameras

Wang, Changhu

Spatial-Bag-of-Features

Probabilistic Models for Supervised Dictionary Learning

Wang, Chaohui

Dense Non-rigid Surface Registration Using High-Order Graph Matching

Wang, Chong

Building and Using a Semantivisual Image Hierarchy

Wang, Fei

Shape-based Similarity Retrieval of Doppler Images for Clinical Decision Support

Workshop: Cardiac Disease Detection from Echocardiogram using Edge Filtered Scale-invariant Motion Features

Wang, Gang

Comparative Object Similarity for Improved Recognition with Few or No Examples

Wang, Hanzi

Multi-Structure Model Selection via Kernel Optimisation

Workshop: A Swarm Intelligence Based Searching Strategy for Articulated 3D Human Body Tracking

Wang, Jian-Gang

Workshop: Boosting Dense SIFT Descriptors and Shape Contexts of Face Images for Gender Recognition

Wang, Jingbin

Demo: Google Image Swirl: A Large-Scale Content-Based Image Browsing System

Wang, Jingdong

Optimizing kd-trees for Scalable Visual Descriptor Indexing

Wang, Jinjun

Locality-constrained Linear Coding for Image Classification

Wang, Jun

Semi-Supervised Hashing for Scalable Image Retrieval

Wang, Kai

Demo: OpenScan: Using Computer Vision to Achieve Transparency in Elections

Wang, Liang

A Constant-Space Belief Propagation Algorithm for Stereo Matching

Wang, Ping

Temporal Causality for the Analysis of Visual Events

Wang, Qian

ABSORB: Atlas Building by Self-Organized Registration and Bundling

Wang, Robert Y

Demo: Practical Real-Time Hand-Tracking

Wang, Sen

Workshop: Active Lighting Learning for 3D Model Based Vehicle Tracking

Wang, Shengnan

SVM for Edge-Preserving Filtering

Wang, Song

Two Perceptually Motivated Strategies for Shape Classification

Free-Shape Subwindow Search for Object Localization

Workshop: Feature Matching In Underwater Environments Using Sparse Linear Combinations

Wang, Wei

Measuring Visual Saliency by Site Entropy Rate

Wang, Weiran

Manifold Blurring Mean Shift Algorithms for Manifold Denoising

Wang, Xiangyang

Workshop: A Swarm Intelligence Based Searching Strategy for Articulated 3D Human Body Tracking

Wang, Xianwang

Learning 3D Shape from a Single Facial Image via Non-linear Manifold Embedding and Alignment

Wang, Xin-Jing

ARISTA - Image Search to Annotation on Billions of Web Photos

Wang, Xu-Lei

Global and Local Isometry-Invariant Descriptor for 3D Shape Comparison and Partial Matching

Wang, Yang

Dense Non-rigid Surface Registration Using High-Order Graph Matching

Recognizing Human Actions from Still Images with Latent Poses

Wang, Yangsheng

AAM based Face Tracking with Temporal Matching and Face Segmentation

Wang, Yi

Randomized Hybrid Linear Modeling by Local Best-fit Flats

Wang, Yishi

Workshop: Face Age Estimation Using Model Selection

Wang, Yizhou

Measuring Visual Saliency by Site Entropy Rate

Wang, Yunhong

Workshop: Ethnicity Classification Based on Gait Using Multi-view Fusion

Wang, Zheshen

YouTubeCat: Learning to Categorize Wild Web Videos

Demo: YoutubeCat: Categorizing Wild Youtube Videos

Warrell, Jonathan

"Lattice Cut" - Constructing Superpixels using Layer Constraints

Watanabe, Wataru

Point-Based Non-Rigid Surface Registration with Accuracy Estimation

Weber, Serge

Workshop: Dynamically Reconfigurable Architecture for Real Time Adaptation of H264/AVC-SVC Video Streams

Wei, Yichen

Efficient Histogram-Based Sliding Window

Self-calibrating Photometric Stereo

Weiland, James

Workshop: Robot Vision for the Visually Impaired

Weise, Thibaut

An Object-Dependent Hand Pose Prior from Sparse Training Data

Weiss, Alexander

Contour People: A Parameterized Model of 2D Articulated Human Shape

Welinder, Peter

Cascaded Pose Regression

Workshop: Online Crowdsourcing: Rating Annotators and Obtaining Cost-effective Labels

Wells, William M., III

Workshop: A Mutual-Information Scale-space for Image Feature Detection and Feature-based Classification of Volumetric Brain Images

Weng, Juyang

Workshop: Online Learning for Attention, Recognition, and Tracking by a Single Developmental Framework

Werlberger, Manuel

Motion Estimation with Non-Local Total Variation Regularization

Workshop: FlowGames

Wersing, Heiko

Workshop: Facial Expressions as Feedback Cue in Human-Robot Interaction — A Comparison between Human and Automatic Recognition Performances

Westin, Carl-Fredrik

Workshop: Robust Feature Selection in Resting-State fMRI Connectivity Based on Population Studies

Wetzstein, Gordon

A Theory of Plenoptic Multiplexing

Sensor Saturation in Fourier Multiplexed Imaging

Wexler, Yonatan

Detecting Text in Natural Scenes with Stroke Width Transform

Wheeler, Frederick W.

Workshop: Improving Biometric Identification Through Quality-based Face and Fingerprint Biometric Fusion

White, Amelia G.

Rapid and Accurate Developmental Stage Recognition of *C. elegans* from High-throughput Image Data

White, Brandyn

Workshop: VizWiz::LocateIt - Enabling Blind People to Locate Objects in Their Environment

Whyte, Oliver

Non-uniform Deblurring for Shaken Images

Wildes, Richard P.

Dynamic Texture Recognition Based on Distributions of Spacetime Oriented Structure
Efficient Action Spotting Based on a Spacetime Oriented Structure Representation

Williams, George

Workshop: Hands by Hand: Crowd-sourced Motion Tracking for Gesture Annotation

Willis, Andrew

Workshop: REVEAL Intermediate Report
Workshop: Estimating Gothic Facade Architecture from Imagery

Willsky, Alan S.

Exploiting Hierarchical Context on a Large Database of Object Categories

Wilson, Richard C.

Spherical Embeddings for non-Euclidean Dissimilarities

Winlock, Tess

Workshop: Toward Real-Time Grocery Detection for the Visually Impaired

Wnuk, Kamil

Spike Train Driven Dynamical Models for Human Actions

Wojtczyk, Martin

Demo: The OpenTL Framework for Model-based Visual Tracking

Wolf, Lior

Visual Recognition using Mappings that Replicate Margins
An Eye for an Eye: A Single Camera Gaze-Replacement Method

Wong, Kwan-Yee K.

Reconstruction of Display and Eyes from a Single Image

Wong, Tien Yin

Demo: Retinal Vessel Caliber Measurement: A Semi-automatic Approach

Wong, Tsz Wai

Compression of Surface Registrations using Beltrami Coefficients

Woodard, Damon L.

Workshop: Periocular Region Appearance Cues for Biometric Identification

Woodley, Thomas

Workshop: Online Multiple Classifier Boosting for Object Tracking

Woods, Roger P.

Diffeomorphic Sulcal Shape Analysis for Cortical Surface Registration

Woods, Roger

Metric-Induced Optimal Embedding for Intrinsic 3D Shape Analysis

Wrba, Friedrich

Workshop: Predicting the Histology of Colorectal Lesions in a Probabilistic Framework

Wright, John

RASL: Robust Alignment by Sparse and Low-rank Decomposition for Linearly Correlated Images

Compact Projection: Simple and Efficient Near Neighbor Search with Practical Memory Requirements

Wu, Changchang

Demo: Dense Reconstruction from Millions of Images on a Single PC

Wu, Chen

Workshop: Hierarchical Preference Learning for Light Control from User Feedback

Wu, Dijia

Stratified Learning of Local Anatomical Context for Lung Nodules in CT Images

Sign Ambiguity Resolution for Phase Demodulation in Interferometry with Application to Prelens Tear Film Analysis

Wu, Fei

Sparse Representation using Nonnegative Curds and Whey

Wu, Fuchao

Line Matching Leveraged By Point Correspondences

Wu, Guorong

ABSORB: Atlas Building by Self-Organized Registration and Bundling

Wu, Huai-Yu

Global and Local Isometry-Invariant Descriptor for 3D Shape Comparison and Partial Matching

Wu, Lei

Compact Projection: Simple and Efficient Near Neighbor Search with Practical Memory Requirements

Wu, Lin

Geo-location Estimation from Two Shadow Trajectories

Wu, Qiang

Support Vector Regression for Multi-View Gait Recognition based on Local Motion Feature Selection

Wu, Shandong

Chaotic Invariants of Lagrangian Particle Trajectories for Anomaly Detection in Crowded Scenes

Wu, Tai-Pang

Quasi-Dense 3D Reconstruction using Tensor-based Multiview Stereo

Wu, Tianfu

Discovering Scene Categories by Information Projection and Cluster Sampling

Wu, Tingfan

Workshop: Facial Expression Recognition Using Gabor Motion Energy Filters

Wu, Xiaodong

Simultaneous Searching of Globally Optimal Interacting Surfaces with Shape Priors

Wu, Xiaoyun

Taxonomic Classification for Web-based Videos

Demo: YoutubeCat: Categorizing Wild Youtube Videos

Wu, Ying

Sparsity Model for Robust Optical Flow Estimation at Motion Discontinuities

Wu, Zhaohui

Removal of 3D Face Expressions: A Learning-based Approach

Wu, Zheng

Ink-Bleed Reduction Using Functional Minimization

Wu, Zhong

Scalable Face Image Retrieval with Identity-Based Quantization and Multi-Reference Re-ranking

Wuhrer, Stefanie

Posture Invariant Surface Description and Feature Extraction

Wyatt, Chris

An Automatic Unsupervised Classification of MR Images in Alzheimer's Disease

X**Xiang, Yu**

Semantic Context Modeling with Maximal Margin Conditional Random Fields for Automatic Image Annotation

Xiao, Jianjian

Vehicle Detection and Tracking in Wide Field-of-View Aerial Video

Xiao, Jianxiong

Rectilinear Parsing of Architecture in Urban Environment

SUN Database: Large Scale Scene Recognition from Abbey to Zoo

Xiao, Yu-Hua

Workshop: 3-D Scene Representation with Layered Non-Uniform Global Sampling

Xie, Nianhua

Use Bin-Ratio Information for Category and Scene Classification

Workshop: A Swarm Intelligence Based Searching Strategy for Articulated 3D Human Body Tracking

Xie, Yuchen

Image Atlas Construction via Intrinsic Averaging on the Manifold of Images

Xiong, Yingen

Workshop: Mobile Panoramic Imaging System

Workshop: Fast Image Stitching and Editing for Panorama Painting on Mobile Phones

Xu, Chao

Content-Aware Ranking for Visual Search

Self-calibrating Photometric Stereo

Xu, Chenyang

Model-Based Respiratory Motion Compensation for Image-Guided Cardiac Interventions

Xu, Dong

Visual Event Recognition in Videos by Learning from Web Data
Tag-based Web Photo Retrieval Improved by Batch Mode Re-Tagging

Xu, Gang

3D Reconstruction of Glossy Surfaces Using Stereo Cameras and Projector-Display

Xu, Haiyun

Workshop: Complex Spectral Minutiae Representation For Fingerprint Recognition

Xu, Li

Motion Detail Preserving Optical Flow Estimation

Xu, Lin

Bundled Depth-Map Merging for Multi-View Stereo

Xu, Liwei

Recovering Fluid-type Motions Using Navier-Stokes Potential Flow

Xu, Ran

Cascaded L1-norm Minimization Learning (CLML) Classifier for Human Detection

Xu, Shan

Increasing Depth Resolution of Electron Microscopy of Neural Circuits using Sparse Tomographic Reconstruction

Xu, Wei

Performance Evaluation of Color Correction Approaches for Automatic Multi-view Image and Video Stitching

Xu, Wenli

RASL: Robust Alignment by Sparse and Low-rank Decomposition for Linearly Correlated Images

Xu, Yi

High-Resolution Modeling of Moving and Deforming Objects Using Sparse Geometric and Dense Photometric Measurements

Xu, Yong

A New Texture Descriptor Using Multifractal Analysis in Multi-orientation Wavelet Pyramid

Xu, Yuhong

Robust Video Denoising using Low Rank Matrix Completion

Xue, Tianfan

Object Cut: Complex 3D Object Reconstruction Through Line Drawing Separation

Y**Yagi, Yasushi**

Analysis of Light Transport in Scattering Media
Silhouette Transformation based on Walking Speed for Gait Identification
Workshop: One-shot Scanning Method using an Uncalibrated Projector and Camera System

Yagnik, Jay

SPEC Hashing: Similarity Preserving Algorithm for Entropy-based Coding
Taxonomic Classification for Web-based Videos
Finding Meaning on YouTube: Tag Recommendation and Category Discovery
Demo: YoutubeCat: Categorizing Wild Youtube Videos

Yahyanejad, Saeed

Workshop: Removing Motion Blur from Barcode Images

Yamamoto, Satoshi

Workshop: Precomputed ROMP for Light Transport Acquisition

Yamashita, Takayoshi

Workshop: Feature Co-occurrence Representation Based on Boosting for Object Detection

Yamauchi, Yuji

Workshop: Feature Co-occurrence Representation Based on Boosting for Object Detection

Yamazaki, Masaki

3D Reconstruction of Glossy Surfaces Using Stereo Cameras and Projector-Display

Yan, Fei

Learning Weights for Codebook in Image Classification and Retrieval

l_p Norm Multiple Kernel Fisher Discriminant Analysis for Object and Image Categorisation

Yan, Jingqi

Efficient Joint 2D and 3D Palmprint Matching with Alignment Refinement

Yan, Shuicheng

Nonparametric Label-to-Region by Search

Common Visual Pattern Discovery via Spatially Coherent Correspondences

Weakly-Supervised Hashing in Kernel Space

Factorization Towards a Classifier

Visual Classification with Multi-Task Joint Sparse Representation

Sparse Representation using Nonnegative Curds and Whey

Spatialized Epitome and Its Applications

Yang, Jianchao

Locality-constrained Linear Coding for Image Classification

Supervised Translation-Invariant Sparse Coding

Yang, Linjun

Content-Aware Ranking for Visual Search

Compact Projection: Simple and Efficient Near Neighbor Search with Practical Memory Requirements

Yang, Ming-Hsuan

Fast Sparse Representation with Prototypes

Workshop: The HPU

Yang, Peng

Exploring Facial Expression with Compositional Features

Yang, Qingxiong

SVM for Edge-Preserving Filtering

A Constant-Space Belief Propagation Algorithm for Stereo Matching

Yang, Ruigang

Learning 3D Shape from a Single Facial Image via Non-linear Manifold Embedding and Alignment

Yang, Shulin

Food Recognition Using Statistics of Pairwise Local Features

Yang, Songfan

Workshop: Error Model for Scene Reconstruction from Motion and Stereo

Yang, Weilong

Recognizing Human Actions from Still Images with Latent Poses

Yang, Xiaodong

Workshop: Robust Door Detection in Unfamiliar Environments by Combining Edge and Corner Features

Yang, Xin

Workshop: Mobile Image Search With Multimodal Context-Aware Queries

Yang, Xiong

A New Texture Descriptor Using Multifractal Analysis in Multi-orientation Wavelet Pyramid

Yang, Yi

Layered Object Detection for Multi-Class Segmentation

Yano, Takahiro

Image Restoration and Disparity Estimation from an Uncalibrated Multi-Layered Image

Yao, Angela

A Hough Transform-Based Voting Framework for Action Recognition

Yao, Bangpeng

Grouplet: A Structured Image Representation for Recognizing Human and Object Interactions
Modeling Mutual Context of Object and Human Pose in Human-Object Interaction Activities

Yao, Hongxun

Visual Tracking via Weakly Supervised Learning from Multiple Imperfect Oracles
Towards Semantic Embedding in Visual Vocabulary
Novel Observation Model for Probabilistic Object Tracking

Yao, Jianchao

Workshop: Respiratory Rate Estimation via Simultaneously Tracking and Segmentation

Yao, Wei

Workshop: Airborne Analysis and Assessment of Urban Traffic Scenes from LiDAR Data – Theory and Experiments

Yao, Yi

Region Moments: Fast invariant descriptors for detecting small image structures
Boosting for Transfer Learning with Multiple Sources

Yapo, Theodore C.

Workshop: Dynamic Projection Environments for Immersive Visualization

Yarkony, Julian

Covering Trees and Lower-bounds on Quadratic Assignment

Yau, Shing-Tung

Compression of Surface Registrations using Beltrami Coefficients

Yau, Wei-Yun

Workshop: Boosting Dense SIFT Descriptors and Shape Contexts of Face Images for Gender Recognition

Ye, Dong Hye

Workshop: Groupwise Morphometric Analysis Based on High Dimensional Clustering

Ye, Ning

Towards General Motion-Based Face Recognition

Ye, Qixiang

Cascaded L1-norm Minimization Learning (CLML) Classifier for Human Detection

Yeh, Tom

Workshop: VizWiz::LocateIt - Enabling Blind People to Locate Objects in Their Environment

Yemez, Yücel

3D Shape Correspondence by Isometry-Driven Greedy Optimization

Yeung, Dit-Yan

Multi-Task Warped Gaussian Process for Personalized Age Estimation

Yeung, Sai-Kit

Quasi-Dense 3D Reconstruction using Tensor-based Multiview Stereo

Yezzi, Anthony J.

Curious Snakes: A Minimum Latency Solution to the Cluttered Background Problem in Active Contours

Yin, Jun

Workshop: Human Activity Recognition in Video using a Hierarchical Probabilistic Latent Model

Yin, Lijun

Workshop: Viewing Direction Estimation Based on 3D Eyeball Construction for HRI

Yin, Qi

Face Recognition with Learning-based Descriptor

Ying, Xianghua

Geometric Properties of Multiple Reflections in Catadioptric Camera with Two Planar Mirrors

Yoo, Terry

Workshop: An MRF-based Statistical Deformation Model for Morphological Image Analysis

York, Timothy

Demo: Real-time Polarization Imaging at 1 Megapixel Resolution

You, Di

Bayes Optimal Kernel Discriminant Analysis

Yu, Chanki

Global Optimization for Estimating a BRDF with Multiple Specular Lobes

Yu, Jingyi

Recovering Fluid-type Motions Using Navier-Stokes Potential Flow

Yu, Kai

Locality-constrained Linear Coding for Image Classification

Supervised Translation-Invariant Sparse Coding

Yu, Li

Workshop: Rapidly Deployable Video Analysis Sensor Units for Wide Area Surveillance

Yu, Stella X.

Finding Dots: Segmentation as Popping out Regions from Boundaries

Workshop: Indoor-Outdoor Classification with Human Accuracies: Image or Edge Gist?

Workshop: Structural Correspondence as A Contour Grouping Problem

Yu, Tianli

Workshop: An Efficient Fashion-driven Learning Approach to Model User Preferences in On-Line Shopping Scenarios

Yu, Yang

Automatic Image Annotation Using Group Sparsity

Yuan, Jing

A Study on Continuous Max-Flow and Min-Cut Approaches

Yuan, Xiao-Tong

Visual Classification with Multi-Task Joint Sparse Representation

Yuan, Xiaotong

Visual Tracking via Weakly Supervised Learning from Multiple Imperfect Oracles

Yuille, Alan

Latent Hierarchical Structural Learning for Object Detection

Part and Appearance Sharing: Recursive Compositional Models for Multi-View Multi-Object Detection

Yun, Il Dong

Optical Flow Estimation with Adaptive Convolution Kernel Prior on Discrete Framework

Z**Zabih, Ramin**

Globally Optimal Pixel Labeling Algorithms for Tree Metrics

Zach, Christopher

Disambiguating Visual Relations Using Loop Constraints

Zacharaki, Evangelia I.

Workshop: Learning High-dimensional Image Statistics for Abnormality Detection on Medical Images

Zafeiriou, Stefanos

Workshop: Sparse Representations For Facial Expressions Recognition via l1 optimization

Zafireiou, Stefanos

Bidirectional Relighting for 3D-aided 2D Face Recognition

Zafrulla, Zahoor

Workshop: A Novel Approach to American Sign Language (ASL) Phrase Verification using Reversed Signing

Zakhor, Avidoh

Workshop: Selection of Temporally Dithered Codes for Increasing Virtual Depth of Field in Structured Light Systems

Zeiler, Matthew D.

Deconvolutional Networks

Zeisl, Bernhard

On-line Semi-supervised Multiple-Instance Boosting

Zelnik-Manor, Lihi

Context-Aware Saliency Detection

Zeng, Gang

Optimizing kd-trees for Scalable Visual Descriptor Indexing

Zeng, Yun

Dense Non-rigid Surface Registration Using High-Order Graph Matching

Zha, Hongbin

Geometric Properties of Multiple Reflections in Catadioptric Camera with Two Planar Mirrors

Optimizing kd-trees for Scalable Visual Descriptor Indexing

An Online Approach: Learning-Semantic-Scene-by-Tracking and Tracking-by-Learning-Semantic-Scene

Global and Local Isometry-Invariant Descriptor for 3D Shape Comparison and Partial Matching

Zhai, Yun

Demo: IBM Smart Surveillance System: Searchable Video Analytics for Urban Environments and Retail Stores

Zhang, Baochang

Cascaded L1-norm Minimization Learning (CLML) Classifier for Human Detection

Zhang, David

Efficient Joint 2D and 3D Palmprint Matching with Alignment Refinement

The Multiscale Competitive Code via Sparse Representation for Palmprint Verification

Workshop: Human Hand Identification with 3D Hand Pose Variations

Zhang, De

Workshop: Ethnicity Classification Based on Gait Using Multi-view Fusion

Zhang, Honghui

Rectilinear Parsing of Architecture in Urban Environment

Zhang, Jian

Support Vector Regression for Multi-View Gait Recognition based on Local Motion Feature Selection

Zhang, Jingdan

Multiple Object Detection by Sequential Monte Carlo and Hierarchical Detection Network

Zhang, John R.

Workshop: Annotation and Taxonomy of Gestures in Lecture Videos

Zhang, Juyong

A Diffusion Approach to Seeded Image Segmentation

Zhang, Lei

Efficient Joint 2D and 3D Palmprint Matching with Alignment Refinement

ARISTA - Image Search to Annotation on Billions of Web Photos

Spatial-Bag-of-Features

Interest Seam Image

Probabilistic Models for Supervised Dictionary Learning

Zhang, Li

Denoising vs. Deblurring: HDR Imaging Techniques Using Moving Cameras

Model Evolution: An Incremental Approach to Non-Rigid Structure from Motion

Zhang, Liqing

Spatial-Bag-of-Features

Zhang, Qiang

Discriminative K-SVD for Dictionary Learning in Face Recognition

Workshop: Synthesis of Stereoscopic Views from Monocular Endoscopic Videos

Zhang, Qin

Multi-domain, Higher Order Level Set Scheme for 3D Image Segmentation on the GPU

Zhang, Qing

Workshop: Real Time Head Pose Tracking from Multiple Cameras with a Generic Model

Zhang, Renqi

Fast Pattern Matching using Orthogonal Haar Transform

Zhang, Shaoting

Image Retrieval via Probabilistic Hypergraph Ranking

Automatic Image Annotation Using Group Sparsity

Zhang, Teng

Randomized Hybrid Linear Modeling by Local Best-fit Flats

Zhang, Wei

Gradient-directed Composition of Multi-exposure Images

Zhang, Xiao-Ping

Workshop: A New Player-Enabled Rapid Video Navigation Method Using Temporal Quantization and Repeated Weighted Boosting Search

Zhang, Xiao

Interest Seam Image

Zhang, Xiaoqin

Use Bin-Ratio Information for Category and Scene Classification

Workshop: A Swarm Intelligence Based Searching Strategy for Articulated 3D Human Body Tracking

Zhang, Yimin

Bundled Depth-Map Merging for Multi-View Stereo

Zhang, Yu

Multi-Task Warped Gaussian Process for Personalized Age Estimation

Zhang, Yuting

Removal of 3D Face Expressions: A Learning-based Approach

Zhang, Zhengyou

Workshop: Real Time Head Pose Tracking from Multiple Cameras with a Generic Model

Workshop: Action Recognition Based on A Bag of 3D Points

Zhang, Zhenwu

Workshop: Vascular Tree Reconstruction by Minimizing A Physiological Functional Cost

Zhang, Zhihua

Sparse Representation using Nonnegative Curds and Whey

Zhang, Zhiqi

Free-Shape Subwindow Search for Object Localization

Zhang, Zhongchuan

Workshop: Virtual Reconstruction of Archaeological Vessels using Convex Hulls of Surface Markings

Zhao, Guoying

Modeling Pixel Process with Scale Invariant Local Patterns for Background Subtraction in Complex Scenes

Zhao, Huijing

An Online Approach: Learning-Semantic-Scene-by-Tracking and Tracking-by-Learning-Semantic-Scene

Zhao, Ming

Taxonomic Classification for Web-based Videos

YouTubeCat: Learning to Categorize Wild Web Videos

Demo: Google Image Swirl: A Large-Scale Content-Based Image Browsing System

Demo: YoutubeCat: Categorizing Wild Youtube Videos

Zhao, Peilin

Local Features Are Not Lonely - Laplacian Sparse Coding for Image Classification

Zhao, Peng

Rectilinear Parsing of Architecture in Urban Environment

Zhao, Qijun

Workshop: On the Utility of Extended Fingerprint Features: A Study on Pores

Zhao, Qinpeng

Rectilinear Parsing of Architecture in Urban Environment

Zhao, Xu

Bimodal Gender Recognition from Face and Fingerprint

Zheng, Jianmin

A Diffusion Approach to Seeded Image Segmentation

Zheng, Yuanjie

Estimation of Image Bias Field with Sparsity Constraints

Zhong, Bineng

Visual Tracking via Weakly Supervised Learning from Multiple Imperfect Oracles

Towards Semantic Embedding in Visual Vocabulary

Zhong, Fan

Transductive Segmentation of Live Video with Non-stationary Background

Zhong, Yu

Workshop: Action Recognition in Spatiotemporal Volume

Zhou, Changyin

Depth from Diffusion

Zhou, Feng

Unsupervised Discovery of Facial Events

Zhou, Jie

Trajectory Matching from Unsynchronized Videos

Demo: Understanding Multidimensional Biological Images -- An Automatic Classification and Annotation Framework

Zhou, Jin

Workshop: Synthesis of Stereoscopic Views from Monocular Endoscopic Videos

Zhou, Kevin S.

Search Strategies for Multiple Landmark Detection by Submodular Maximization

Zhou, Mingcai

AAM based Face Tracking with Temporal Matching and Face Segmentation

Zhou, Ning

Harvesting Large-Scale Weakly-Tagged Image Databases from the Web

Zhou, S. Kevin

Lymph Node Detection in 3-D Chest CT using a Spatial Prior Probability

Multiple Object Detection by Sequential Monte Carlo and Hierarchical Detection Network

Zhou, Xiangdong

Semantic Context Modeling with Maximal Margin Conditional Random Fields for Automatic Image Annotation

Zhou, Xiuzhuang

Abrupt Motion Tracking via Adaptive Stochastic Approximation Monte Carlo Sampling

Zhu, Jiejie

Learning to Recognize Shadows in Monochromatic Natural Images
Context-Constrained Hallucination for Image Super-Resolution

Zhu, Long

Latent Hierarchical Structural Learning for Object Detection
Part and Appearance Sharing: Recursive Compositional Models for Multi-View Multi-Object Detection

Zhu, Qihui

Many-to-one Contour Matching for Describing and Discriminating Object Shape

Zhu, Shengqi

Model Evolution: An Incremental Approach to Non-Rigid Structure from Motion

Zhu, Song-Chun

Learning a Probabilistic Model Mixing 3D and 2D Primitives for View Invariant Object Recognition
Discovering Scene Categories by Information Projection and Cluster Sampling

Zhu, Zhiqiang

Workshop: A Fully Statistical Framework for Shape Detection in Image Primitives

Zhuang, Yueting

Sparse Representation using Nonnegative Curds and Whey

Zhuo, Shaojie

Correcting Over-Exposure in Photographs
Robust Flash Deblurring

Zickler, Todd

Analyzing Spatially-varying Blur

Zikic, Darko

Natural Gradients for Deformable Registration

Zisserman, Andrew

Geodesic Star Convexity for Interactive Image Segmentation
Efficient Additive Kernels via Explicit Feature Maps
Non-uniform Deblurring for Shaken Images
Finding Nemo: Deformable Object Class Modelling using Curve Matching

Zitnick, C. Lawrence

A Content-Aware Image Prior
The Role of Features, Algorithms and Data in Visual Recognition

Zuffi, Silvia

Contour People: A Parameterized Model of 2D Articulated Human Shape

Zuo, Wangmeng

The Multiscale Competitive Code via Sparse Representation for Palmprint Verification