PAPER ID	PAPER TITLE
7	A Tetrahedron-based Heat Flux Signature for Cortical Thickness Morphometry Analysis
8	DeepEM: Deep 3D ConvNets with EM for Weakly Supervised Pulmonary Nodule Detection
13	Towards Automatic Report Generation in Spine Radiology using Weakly Supervised Framework
14	Which Way Round? A Study on the Performance of Stain-Translation for Segmenting Arbitrarily Dyed Histological Images
16	Deep Chronnectome Learning via Full Bidirectional Long Short-Term Memory Networks for MCI Diagnosis
25	An Automated Localization, Segmentation and Reconstruction Framework for Fetal Brain MRI
33	Graph of brain structures grading for early detection of Alzheimer's disease
35	Deep Learning-based Boundary Detection for Model-based Segmentation with Application to MR Prostate Segmentation
40	Nasal Mesh Unfolding—an Approach to Obtaining 2-D Skin Templates from 3-D Nose Models
48	Joint Segmentation of Intracerebral Hemorrhage and Infarct from Non-Contrast CT Images of Post- Treatment Acute Ischemic Stroke Patients
51	A Learning-based Metal Artifacts Correction Method for MRI using Dual-Polarity Readout Gradients and Simulated Data
53	Adversarial Domain Adaptation for Classification of Prostate Histopathology Whole-Slide Images
54	Automated Choroidal Neovascularization Detection for Time Series SD-OCT Images
56	Uniqueness-Driven Saliency Analysis for Automated Lesion Detection with Applications to Retinal Diseases
57	Retinal Artery and Vein Classification via Dominant Sets Clustering based Vascular Topology Estimation
58	Beyond Retinal Layers: A Large Blob Detection for Subretinal Fluid Segmentation in SD-OCT Images
63	Adversarial Sparse-View CBCT Artifact Reduction
66	TextRay: Mining Clinical Reports to Gain a Broad Understanding of Chest X-rays
69	Patch-based Mapping of Transentorhinal Cortex with a Distributed Atlas
70	Multi-Context Deep Network for Angle-Closure Glaucoma Screening in Anterior Segment OCT
72	Towards a glaucoma risk index based on simulated hemodynamics from fundus images
74	VoxelAtlasGAN: 3D Left Ventricle Segmentation on Echocardiography with Atlas Guided Generation and Voxel-to-voxel Discrimination
84	Multiview Two-Task Recursive Attention Model for Left Atrium and Atrial Scars Segmentation
92	Locality Adaptive Multi-modality GANs for High-quality PET Image Synthesis
98	Cardiac Motion Scoring with Segment- and Subject-level Non-Local Modeling
100	Direct Reconstruction of Ultrasound Elastography Using an End-to-End Deep Neural Network
106	Group-driven Reinforcement Learning for Personalized mHealth Intervention
109	A Riemannian Framework for Longitudinal Analysis of Resting-State Functional Connectivity
110	High sensitivity with tiny candidates for Pulmonary Nodule Detection
119	Direct Automated Quantitative Measurement of Spine via Cascade Amplifier Regression Network
121	Hierarchical Spherical Deformation for Shape Correspondence
130	Learning an Infant Body Model from RGB-D Data for Accurate Full Body Motion Analysis
137	Synthesizing Missing PET from MRI with Cycle-consistent Generative Adversarial Networks for Alzheimer's Disease Diagnosis
142	Cost-sensitive active learning for intracranial hemorrhage detection
145	Generalizability vs. Robustness: Adversarial Examples for Medical Imaging

147	Deep Learning using K-space Based Data Augmentation for Automated Cardiac MR Motion Artefact
	Detection
152	Elastic Hyperalignment of Single Subject Task Based fMRI Signals
153	Towards a Fast and Safe LED-based Photoacoustic Imaging using a Deep Convolutional Neural Networks
157	Motion Aware MR Imaging via Spatial Core Correspondence
159	Anchor-constrained plausibility (ACP): a novel concept for assessing tractography and reducing false- positives
161	Btrfly Net: Vertebrae Labelling with Energy-based Adversarial Learning of Local Spine Prior
168	Combining Multiple Connectomes via Canonical Correlation Analysis Improves Predictive Models
172	Spatially Localized Atlas Network Tiles Enables 3D Whole Brain Segmentation from Limited Data
173	Nuclear Features Driven Local Cell Graph (FeDeG): Quantifying the Interactions between Self-
	organized Cell Sub-graph
174	Identification of Species-Preserved Cortical Landmarks
178	AutoDVT: Joint Real-time Classification for Vein Compressibility Analysis in Deep Vein Thrombosis
	Ultrasound Diagnostics
179	Keep and Learn: Continual Learning by Constraining the Latent Space for Knowledge Preservation in Neural Networks
180	Towards safe deep learning: accurately quantifying biomarker uncertainty in neural network
	predictions
181	Temporal Enhanced Ultrasound for Prostate Cancer Grading and Biopsy Guidance
186	Towards Generating Personalized Volumetric Phantom from Patient's Surface Geometry
187	Elastic Registration of Geodesic Vascular Graphs
196	Bridging the Gap Between 2D and 3D Organ Segmentation with Volumetric Fusion Net
200	IRIS-Net: Convolution Networks for Kidney Vessels Segmentation from CT-Volumes
204	Fast Vessel Segmentation and Tracking in Ultra High-Frequency Ultrasound Images
209	Fast Multiple Landmark Localisation Using a Patch-based Iterative Network
212	Solving the Cross-Subject Parcel Matching Problem using Optimal Transport
213	Recurrent Neural Networks for Aortic Image Sequence Segmentation with Sparse Annotations
214	Learning to Segment 3D Linear Structures Using Only 2D Annotations
215	Dual-Domain Cascaded Regression for Synthesizing 7T from 3T MRI
216	Graph CNN for Survival Analysis on Whole Slide Pathological Images
219	MuTGAN: Simultaneous Segmentation and Quantification of Myocardial Infarction without Contrast
222	Thermographic computational analyses of a 3D model of a scanned breast
222	Wehly Supervised Learning for Skin Lesion Classification
227	The Deep Poincar's Map: A Novel Approach for Left Ventricle Segmentation
230	Y-Net: Joint Segmentation and Classification for Diagnosis of Breast Biopsy Images
235	Needle Tip Force Estimation using an OCT Fiber and a Fused convGRU-CNN Architecture
236	Hashing-Based Atlas Ranking and Selection for Multiple-Atlas Segmentation
237	Endoscopic navigation in the absence of CT imaging
242	A Robust and Effective Approach Towards Accurate Metastasis Detection and pN-stage Classification
	in Breast Cancer
243	Computational Heart Modeling for Evaluating Efficacy of MRI Techniques in Predicting Appropriate
	ICD Therapy
245	Accurate Weakly-Supervised Deep Lesion Segmentation using Large-Scale Clinical Annotations: Slice- Propagated 3D Mask Generation from 2D RECIST

246	Iterative Attention Mining for Weakly Supervised Thoracic Disease Pattern Localization in Chest X-
	Rays
248	Task Driven Generative Modeling for Unsupervised Domain Adaptation: Application to X-ray Image
	Segmentation
249	A Feature-Driven Active Framework for Ultrasound-Based Brain Shift Compensation
264	Esophageal Gross Tumor Volume Segmentation using a 3D Convolutional Neural Network
274	Cardiac MR Segmentation from Undersampled k-space using Deep Latent Representation Learning
277	Towards radiotherapy enhancement and real time tumor radiation dosimetry through 3D imaging of
279	gold halloparticles using ArC1 Automatic Lacunae Localization in Placental Illtrasound Images via Laver Aggregation
275	Deen Reinforcement Learning for Vessel Centerline Tracing in Multi-modality 3D Volumes
281	Unsupervised Learning for East Probabilistic Diffeomorphic Registration
202	Conditional Entropy as a Supervised Primitive Segmentation Loss Function
200	Adversarial Similarity Network for Evaluating Image Alignment in Deen Learning based Registration
290	Adversarial similarity Network for Evaluating image Angriment in Deep Learning based Registration
291	CrCivil segmentation via coarse to rine context wemory
295	Deep Learning from Laber Proportions for Emphysema Quantification
296	Semi-Automatic RECIST Labeling on CT Scans with Cascaded Convolutional Neural Networks
306	A Weakly-Supervised Learning-Based Feature Localization in Confocal Laser Endomicroscopy Glioma
210	A nevel mixed reality navigation for lanaroscopic surgery
211	Spatiotomporal Manifold Prodiction Model for Antoriar Vertebral Body Growth Modulation Surgery in
511	Idiopathic Scoliosis
312	Order-Sensitive Deep Hashing for Multimorbidity Medical Image Retrieval
314	Densely Deep Supervised Networks with Threshold Loss for Cancer Detection in Automated Breast
	Ultrasound
316	SPNet: Shape Prediction using a Fully Convolutional Neural Network
317	Modeling Longitudinal Voxel-wise Feature Change in Normal Aging with Spatial-Anatomical Regularization
318	CapsDeMM: Capsule network for Detection of Munro's Microabcess in skin biopsy images
321	A Novel Bayesian Model Incorporating Deep Neural Network and Statistical Shape Model for Pancreas
	Segmentation
327	One-pass Multi-task Convolutional Neural Networks for Efficient Brain Tumor Segmentation
329	MRI Measurement of Placental Perfusion and Fetal Blood Oxygen Saturation in Normal Pregnancy and
220	Placental Insufficiency
330	Stochastic Deep Compressive Sensing for the Reconstruction of Diffusion Tensor Cardiac MRI
333	Local and Non-local Deep Feature Fusion for Malignancy Characterization of Hepatocellular
334	Deep Reinforcement Learning for Surgical Gesture Segmentation and Classification
339	Omni-supervised learning: scaling up to large unlabelled medical datasets
342	AtlasNet: Multi-atlas non-linear deep networks for medical image segmentation
345	Multiple Instance Learning for Heterogeneous Images: Training a CNN for Histopathology
351	Combining Convolutional and Recurrent Neural Networks for Classification of Focal Liver Lesions in
	Multi-Phase CT Images
352	Domain and Geometry Agnostic CNNs for Left Atrium Segmentation in 3D Ultrasound
353	Roto-Translation Covariant Convolutional Networks for Medical Image Analysis
364	Joint Correlational and Discriminative Ensemble Classifier Learning for Dementia Stratification Using
	Shallow Brain Multiplexes
375	Rotation Equivariant CNNs for Digital Pathology

376	GlymphVIS: Visualizing Glymphatic Transport Pathways Using Regularized Optimal Transport
377	Multiscale Network Followed Network Model for Retinal Vessels Segmentation
381	A Generative-Discriminative Basis Learning Framework to Predict Clinical Severity from Resting State Functional MRI Data
384	Integrate Domain Knowledge in Training CNN for Ultrasonography Breast Cancer Diagnose
386	Noninvasive Determination of Gene Mutations in Clear Cell Renal Cell Carcinoma using Multiple
392	Respiratory Motion Modelling using cGANs
398	A deep learning-based method for automated performance evaluation in Transesoesophageal
	Echocardiography
405	Dilatation of Lateral Ventricles with Brain Volumes in Infants with 3D Transfontanelle US
406	Double Your Views - Exploiting Symmetry in Transmission Imaging
407	Improving Surgical Training Phantoms by Hyperrealism: Deep Unpaired Image-to-Image Translation from Real Surgeries
413	Joint High-Order Multi-Task Feature Learning to Predict the Progression of Alzheimer's Disease
418	Mean Field Network based Graph Refinement with application to Airway Tree Extraction
421	Generative Modeling and Inverse Imaging of Cardiac Transmembrane Potential
427	Deep Active Self-paced Learning for Accurate Pulmonary Nodule Segmentation
428	Deep Attentional Features for Prostate Segmentation in Ultrasound
440	3D Anisotropic Hybrid Network: Transferring Convolutional Features from 2D Images to 3D
	Anisotropic Volumes
442	Generative Invertible Networks (GIN): Pathophysiology-Interpretable Feature Mapping and Virtual
440	Patient Generation
449	A multi-scale pyramid of 3D fully convolutional networks for abdominal multi-organ segmentation
450	A Gramowork for Identifying Diabetic Potingnathy Pased on Anti-poise Detection and Attention based
451	Fusion
458	Magnetic Resonance Spectroscopy Quantification using Deep Learning
460	DeepHCS: Bright-field to Fluorescence Microscopy Image Conversion using Deep Learning for Label- free High-Content Screening
462	Volumetric Clipping Surface: Un-occluded visualization of structures preserving depth cues into surrounding organs
463	Tract orientation mapping for bundle-specific tractography
474	Computing CNN Loss and Gradients for Pose Estimation with Riemannian Geometry
477	Multi-Modal Synthesis of ASL-MRI Features with KPLS Regression on Heterogeneous Data
480	Deep supervision with additional labels for retinal vessel segmentation task
481	Model-based refinement of nonlinear registrations in 3D histology reconstruction
482	Probabilistic Source Separation on resting-state fMRI and Its Use for Early MCI Identification
488	Construction of a spatiotemporal statistical shape model of pediatric liver from cross-sectional data
491	An Open Framework Enabling Electromagnetic Tracking in Image-Guided Interventions
492	Small Lesion Classication in Dynamic Contrast Enhancement MRI for Breast Cancer Early Detection
494	Uncertainty Estimation in Segmentation with Perfect MCMC Sampling in Bayesian MRFs
497	Training Medical Image Analysis Systems like Radiologists
498	Multi-task SonoEyeNet: Detection of Fetal Standardized Planes Assisted By Generated Sonographer
1	Attention Mone
EOO	Attention Maps
500	Attention Maps Learning Interpretable Anatomical Features Through Deep Generative Models: Application to Cardiac Remodeling

504	Towards Accurate and Complete Registration of Coronary Arteries in CTA images
517	Real-time augmented reality for ear surgery
518	Joint PET+MRI Patch-based Dictionary for Bayesian Random Field PET Reconstruction
520	Joint Prediction and Classification of Brain Image Evolution Trajectories from Baseline Brain Image
	with Application to Early Dementia
528	IMAGE SEGMENTATION AND CLASSIFICATION FOR SICKLE CELL DISEASE USING DEFORMABLE U-NET
535	Initialize globally before acting locally: Enabling Landmark-free 3D US to MRI Registration
541	Left Ventricle Segmentation via Optical-Flow-Net from Short-axis Cine MRI: Preserving the Temporal
	Coherence of Cardiac Motion
545	Cell Instance Tracking with Cosine Embeddings and Recurrent Hourglass Networks
551	Some Investigations on Robustness of Deep Learning in Limited Angle Tomography
554	Normative Modeling of Neuroimaging Data using Scalable Multi-Task Gaussian Processes
556	Deep Multi-Structural Shape Analysis: Application to Neuroanatomy
557	Nonparametric Density Flows for MRI Intensity Normalisation
559	Exploring Fiber Skeletons via Joint Representation of Functional Networks and Structural Connectivity
560	Ultra-fast T2-weighted MR Reconstruction using Complementary T1-weighted Information
562	Deep Convolutional Gaussian Mixture Model for Stain-Color Normalization of Histopathological Images
566	Towards MR-Only Radiotherapy Treatment Planning: Synthetic CT Generation Using Multi-view Deep
	Convolutional Neural Networks
567	Deep learning with synthetic diffusion MRI data for free-water elimination in glioblastoma cases
568	3D Deep Convolutional Neural Network Revealed the Value of Brain Network Overlap in
	Differentiating Autism Spectrum Disorder from Healthy Controls
571	Adaptive feature recombination and recalibration for semantic segmentation: application to brain
F 70	tumor segmentation in MRI
5/2	Inherent Brain Segmentation Quality Control from Fully ConvNet Monte-Carlo Sampling
5/3	Modeling 4D fMRI Data via Spatio-Temporal Convolutional Neural Networks (ST-CNN)
577	Concurrent Spatial and Channel Squeeze & Excitation in Fully Convolutional Networks
5/8	Learning Myelin Content in Multiple Scierosis from Multimodal MRI through Adversarial Training
584	Edema-Informed anatomically constrained particle filter tractography
586	Ordinal multi-modal feature selection for survival analysis of early-stage renal cancer
592	A No-Reference Retinal Vessel Tree Segmentation Quality Metric
596	Fully Automated Blind Color Deconvolution of Histopathological Images
599	A Pixel-wise Distance Regression Approach for Joint Retinal Optical Disc and Fovea Detection
600	A Decomposable Model for the Detection of Prostate Cancer in Multi-Decomposable Model for the Detection of Prostate Cancer in Multi-Decomposable MPL
608	A Decomposable Model for the Detection of Prostate Cancel in Multi-Parametric MR
009	nulmonary hypertension
618	MS-Net: Mixed-Supervision Fully-Convolutional Networks for Full-Resolution Segmentation
624	Uncertainty in multitask learning: joint representations for probabilistic MR-only radiotherapy
	planning
629	Multi-channel Generative Adversarial Network for Parallel Magnetic Resonance Image Reconstruction
	in K-space
632	Physics-based Simulation to enable Ultrasound monitoring of HIFU ablation: an MRI validation
637	Deep 3D dose analysis for prediction of outcomes after liver stereotactic body radiation therapy
638	A probabilistic model combining deep learning and multi-atlas segmentation for semi-automated
	labelling of histology

639	How to Cure Cancer with Unpaired Image Translation
645	3D Context Enhanced Region-based Convolutional Neural Network for End-to-End Lesion Detection
646	A Comprehensive Approach for Learning-based Fully-Automated Inter-slice Motion Correction for
651	Better Fiber ODEs From Subontimal Data With Autoencoder Based Regularization
656	Multi-Label Transduction for Identifying Disease Comorbidity Patterns
659	Training Multi-organ Segmentation Networks with Sample Selection by Relaxed Upper Confident
	Bound
660	Tumor-aware, Adversarial Domain Adaptation from CT to MRI for Lung Cancer Segmentation
667	A Novel Method for Epileptic Seizure Detection Using Coupled Hidden Markov Models
668	Efficient Groupwise Registration for MR Brain Images via Hierarchical Graph Set Shrinkage
669	Conditional Generative Adversarial Networks for Metal Artifact Reduction in CT Images of the Head
673	Deep Recurrent Level Set for Segmenting Brain Tumors
676	Deep convolutional filtering for spatio-temporal denoising and artifact removal in arterial spin labelling MRI
680	Joint Learning of Motion Estimation and Segmentation for Cardiac MR Image Sequences
681	3D Segmentation with Exponential Logarithmic Loss for Highly Unbalanced Object Sizes
682	Real Time RNN Based 3D Ultrasound Scan Adequacy for Developmental Dysplasia of the Hip
683	Thalamic nuclei segmentation using tractography, population-specific priors and local fibre orientation
691	Exploratory Population Analysis with Unbalanced Optimal Transport
692	Respond-CAM: Analyzing Deep Models for 3D Imaging Data by Visualizations
693	A Cascaded Refinement GAN for Phase Contrast Microscopy Image Super Resolution
702	DeepDRR - A Catalyst for Machine Learning in Fluoroscopy-guided Procedures
705	Evaluating surgical skills from kinematic data using convolutional neural networks
706	X-ray-transform Invariant Anatomical Landmark Detection for Pelvic Trauma Surgery
712	Efficient Active Learning for Image Classification and Segmentation using a Sample Selection and
715	Pyramid-based Fully Convolutional Networks for Cell Segmentation
725	Pulse Sequence Resilient Fast Brain Segmentation
726	Multi-Laver Large-Scale Functional Connectome Reveals Infant Brain Developmental Patterns
733	Standard Plane Detection in 3D Fetal Ultrasound Using an Iterative Transformation Network
737	Atlas Propagation Through Template Selection
740	3D Fetal Skull Reconstruction from 2DUS via Deep Conditional Generative Networks
742	Simultaneous Surgical Visibility Assessment, Restoration, and Augmented Stereo Surface
740	Reconstruction for Robotic Prostatectomy
/45	Convolutional Neural Network
746	Exploiting Partial Structural Symmetry For Patient-Specific Image Augmentation in Trauma
753	Multimodal Recurrent Model with Attention for Automated Radiology Report Generation
754	Structured Deep Generative Model of FMRI Signals for Mental Disorder Diagnosis
758	The dynamic measurements of regional brain activity for resting-state fMRI: d-ALFF, d-fALFF and d-
765	Enhancing clinical MRI Perfusion maps with data-driven maps of complementary nature for lesion outcome prediction
768	Accurate Detection of Inner Ears in Head CTs Using a Deep Volume-to-Volume Regression Network
	with False Positive Suppression and a Shape-Based Constraint

770	Multimodal Fusion of Brain Networks with Longitudinal Couplings
778	Low-Rank Representation for Multi-Center Autism Spectrum Disorder Identification
786	Closing the Calibration Loop: An Inside-out-tracking Paradigm for Augmented Reality in Orthopedic
	Surgery
790	S4ND: Single-shot Single-scale lung Nodule Detection
797	Atrial fibrosis quantification based on maximum likelihood estimator of multivariate images
803	Deep Random Walk for Drusen Segmentation from Fundus Images
813	Quasi-automatic Colon Segmentation on T2-MRI Images with Low User Effort
815	Predicting Cancer with a Recurrent Visual Attention Model for Histopathology Images
817	An FMRI Study of Cognitive Control Using ROI-reweight 3D CNN
818	Phase Angle Spatial Embedding (PhASE): A Kernel Method for Studying the Topology of the Human
	Functional Connectome
820	BESNet: Boundary-enhanced segmentation of cells in histopathological images
821	rfDemons: Resting fMRI-based Cortical Surface Registration using BrainSync Transform
824	Brain Biomarker Interpretation in ASD Using Deep Learning and fMRI
826	Using the Anisotropic Laplace Equation to Compute Cortical Thickness
831	Panoptic Segmentation with an End-to-end Cell R-CNN for Pathology Image Analysis
832	Colon Shape Estimation Method for Colonoscope Tracking using Recurrent Neural Networks
833	Identifying Brain Networks of Multiple Time Scales via Deep Recurrent Neural Network
843	A Framework to Objectively Identify Reference Region for Normalizing Quantitative Imaging
849	A Deep Model with Shape-preserving Loss for Gland Instance Segmentation
858	Star Shape Prior in Fully Convolutional Networks for Skin Lesion Segmentation
864	Direct Estimation of Pharmacokinetic Parameters from DCE-MRI using Deep CNN with Forward
	Physical Model Loss
866	Liver Lesion Detection from Weakly-labeled Multi-phase CT Volumes with a Grouped Single Shot
077	MultiBox Detector
8//	Corners detection for bioresorbable vascular scattolds segmentation in IVOCT images
883	Fast GPU computation of 3D isothermal volumes in the vicinity of major blood vessels for
888	Weakly Supervised Representation Learning for Endomicroscopy Image Analysis
894	Fast CansNet for Lung Cancer Screening
897	On Comprehensively Quantifying Local Geometric Structures of Fiber Tracts
903	Consistent Correspondence of Cone-Beam CT Images using Volume Functional Maps
918	Skin Lesion Classification in Dermoscopy Images Using Synergic Deep Learning
920	Exact Combinatorial Inference for Brain Images
922	Adversarial Deformation Regularisation for Training Image Registration Neural Networks
925	Intraoperative brain shift compensation using a hybrid mixture model
933	Image reconstruction by splitting deep learning regularization from iteraive inversion
940	A Combined Simulation & Deep Learning Approach for Image-based Force Estimation during
3.0	Robotized Intravitreal Injections
943	Real-time Prediction of Segmentation Quality
946	Improving Cytoarchitectonic Segmentation of Human Brain Areas with Self-supervised Siamese
	Networks
947	Video-based computer aided arthroscopy for patient specific reconstruction of the Anterior Cruciate
	Ligament
948	On the Effect of Inter-observer Variability for a Reliable Estimation of Uncertainty of Medical Image
	Segmentation

954	Multi-Input and Dataset-Invariant Adversarial Learning (MDAL) for Left and Right-Ventricular
	Coverage Estimation in Cardiac MRI
956	DeepASL: Kinetic Model Incorporated Loss for Denoising Arterial Spin Labeled MRI via Deep Residual
	Learning
967	GDL-FIRE4D: general considerations for deep learning-based fast 4D image registration
969	Less is More: Simultaneous View Classification and Landmark Detection for Abdominal Ultrasound
000	Images
980	Cell Detection with Star-convex Polygons
984	Pulmonary vessel tree matching for quantifying changes in vascular morphology
988	β-hemolysis detection on cultured blood agar plates by convolutional neural networks
989	Statistical Inference with Ensemble of Clustered Desparsified Lasso
990	FDR-HS: An Empirical Bayesian Identification of Heterogenous Features in Neuroimage Analysis
991	Soft-Body Registration of Pre-operative CT to Intra-operative RGBD Partial Body Scans
1010	SLSDeep: Skin Lesion Segmentation Based on Dilated Residual and Pyramid Pooling Networks
1012	Fast registration by boundary sampling and linear programming
1018	Do Baby Brain Cortices that Look Alike at Birth Grow Alike During The First Year of Postnatal
	Development?
1027	Neural Network Evolution Using Expedited GeneticAlgorithm for Medical Image Denoising
1032	Automatic, fast and robust characterization of noise distributions for diffusion MRI
1036	Volume-based Analysis of 6-month-old Infant Brain MRI for Autism Biomarker Identification and Early
	Diagnosis
1038	Fine-Grained Segmentation Using Hierarchical Dilated Neural Networks
1041	Binary Glioma Grading: Radiomics versus Pre-trained CNN Features
1046	Estimating Achilles tendon healing progress with convolutional neural networks
1049	A Global Estimation Framework for Asymmetric Fiber Orientation Distributions
1054	Global Geodesic Tractography (GGT) for Mitigating Gyral Bias in Cortical Tractography
1059	Phase-sensitive Region-of-Interest Computed Tomography
1064	How to exploit weaknesses in biomedical challenge design and organization?
1065	High frame-rate cardiac ultrasound imaging with deep learning
1066	Automatic View Planning with Multi-scale Deep Reinforcement Learning Agents
1067	Bayesian VoxDRN: A Probabilistic Deep Voxelwise Dilated Residual Network for Whole Heart
	Segmentation from 3D MR Images
1069	ASDNet: Attention based Semi-supervised Deep Networks for Medical Image Segmentation
1077	From Local to Global: A Holistic Lung Graph Model
1089	Learn the new, keep the old: Extending pretrained models with new anatomy and images
1091	Localization and Labeling of Posterior Ribs in Chest Radiographs Using a CRF-regularized FCN with
109/	Automatic Teeth Segmentation in Panoramic X-Ray Images Using a Counled Shape Model in
1034	Combination with a Neural Network
1095	Recurrent neural networks for classifying human embryonic stem cell-derived cardiomyocytes
1107	Computational modelling of pathogenic protein behaviour-governing mechanisms in the brain
1111	Accurate and robust segmentation of the clinical target volume for prostate brachytherapy
1117	Simultaneous Segmentation and Classification of Bone Surfaces from Ultrasound Using a Multi-
	feature Guided CNN
1120	A Lifelong Learning Approach to Brain MR Segmentation Across Scanners and Protocols
1127	Temporal Correlation Structure Learning for MCI Conversion Prediction
1129	DeepPhase: Surgical Phase Recognition in CATARACTS Videos

1130	Adversarial and Perceptual Refinement for Compressed Sensing MRI Reconstruction
1131	Efficient Laplace Approximation for Bayesian Registration Uncertainty Quantification
1133	Synaptic partner prediction from point annotations in insect brains
1134	Higher Order of Motion Magnification for Vessel Localisation in Surgical Video
1148	Revealing Regional Associations of Cortical Folding Alterations with In Utero Ventricular Dilation Using Joint Spectral Embedding
1157	Harmonizing diffusion MRI data across magnetic field strengths
1159	Short Acquisition Time PET/MR Pharmacokinetic Modelling using CNNs
1160	Identification of Gadolinium contrast enhanced regions in MS lesions using brain tissue
	microstructure information obtained from diffusion and T2 relaxometry MRI
1162	Efficient and Accurate MRI Super-Resolution using a Generative Adversarial Network and 3D Multi- Level Densely Connected Network
1163	Diffeomorphic brain shape modelling using Gauss-Newton optimisation
1166	Craniomaxillofacial Bony Structures Segmentation from MRI with Deep-Supervision Adversarial
	Learning
1169	Factorised spatial representation learning: application in semi-supervised myocardial segmentation
1173	Automatic Irregular Texture Detection in Brain MRI without Human Supervision
1177	Retinal Image Understanding Emerges from Self-Supervised Multimodal Reconstruction
1182	Synaptic cleft segmentation in non-isotropic volume electron microscopy of the complete Drosophila
4400	brain
1190	Analysis of 3D facial dysmorphology in genetic syndromes from unconstrained 2D photographs
1201	Automatic classification of cochlear implant electrode cavity positioning
1209	Neural Activation Estimation in Brain Networks During Task and Rest Using BOLD-fMRI
1210	Bimodal network architectures for automatic generation of image annotation from text
1214	Generative Model
1215	Inter-site variability in prostate segmentation accuracy using deep learning
1222	A machine learning approach to predict instrument bending in stereotactic neurosurgery
1228	Cardiac Cycle Estimation for BOLD-fMRI
1229	Text to brain: predicting the spatial distribution of neuroimaging observations from text reports
1239	Detection and Delineation of Acute Cerebral Infarct on DWI using Weakly Supervised Machine Learning
1240	A Multi-task Network to Detect Junctions in Retinal Vasculature
1245	EndoScan: endoscopic laser surface scanner for minimally invasive abdominal surgeries
1249	Automatic skin lesion segmentation on dermoscopic images by the means of superpixel merging
1251	Evaluation of collimation prediction based on depth images and automated landmark detection for
1757	Pour Learning Resed Instance Segmentation in 2D Riemodical Images Using Weak Appetation
1252	A Bayes Hilbert Space for Compartment Model Computing in Diffusion MRI
1255	Deen Generative Breast Cancer Screening and Diagnosis
1265	Conditional Generative Adversarial and Convolutional Networks for X-ray Breast Mass Segmentation
1200	and Shape Classification
1273	Surgical Activity Recognition in Robot-Assisted Prostatectomy using Deep Learning
1279	Segmentation of Renal Structures for Image-Guided Surgery
1280	Translation of 1D Inverse Fourier Transform of K-space to an Image based on Deep Learning for Accelerating Magnetic Resonance Imaging
1286	Generative discriminative models for multivariate inference and statistical mapping in medical imaging

1287	Identifying Personalized Autism Related Impairments Using Resting Functional MRI and ADOS Reports
1288	Quantitative deconvolution of fMRI data with Multiecho Sparse Paradigm Free Mapping
1290	Framework for Fusion of Data- and Model-Based Approaches for Ultrasound Simulation
1293	A Natural Language Interface for Dissemination of Reproducible Biomedical Data Science
1296	Identification of multi-scale hierarchical brain functional networks using deep matrix factorization
1300	RIIS-DenseNet: Rotation-Invariant and Image Similarity Constrained Densely Connected Convolutional
	Network for Polyp Detection
1301	Identification of temporal transition of functional states using recurrent neural networks from
	functional MRI
1308	Vascular Network organization via Hough transform (VaNgOGH): A novel radiomic biomarker for
	diagnosis and treatment response
1310	Brain decoding from functional MRI using long short-term memory recurrent neural networks
1316	Registration-Free Infant Cortical Surface Parcellation using Deep Convolutional Neural Networks
1317	Improving Whole Slide Segmentation Through Visual Context - A Systematic Study
1321	Interaction Techniques for Immersive CT Colonography: A Professional Assessment
1322	Quantifying Tensor Field Similarity With Global Distributions and Optimal Transport
1331	A Deep Learning based Anti-aliasing Self Super-resolution Algorithm for Magnetic Resonance Imaging
1333	Unsupervised Learning for Surgical Motion: Learning Context-Aware Representations by Predicting
1005	the Future
1335	A Novel Multi-Task Learning Architecture: Application to Simultaneous Bright and Dark Lesions
1349	Statistical Framework for the definition of emphysema in CT scans: Beyond Density Mask
1350	Tract-Specific Group Analysis in Fetal Cohorts using in utero Diffusion Tensor Imaging
1356	Deen Adversarial Context-Aware Landmark Detection for Illtrasound Imaging
1366	Analysis of Morphological Changes of the Lamina Cribrosa under Acute Intraocular Pressure Change
1369	Fast manning of the eloquent cortex by learning 12 nenalties
1371	Deeper Image Quality Transfer: Training Low-Memory Neural Networks for 3D Images
1371	A Multiresolution Convolutional Neural Network with Partial Label Training for Annotating
1070	Reflectance Confocal Microscopy Images of Skin
1376	Automated Object Tracing for Biomedical Image Segmentation Using a Deep Convolutional Neural
	Network
1382	CompNet: Complementary Segmentation Network for Brain MRI Extraction
1391	3D U-JAPA-Net: Mixture of Convolutional Networks for Abdominal Multi-Organ CT Segmentation
1394	Subject2Vec: Generative-Discriminative Approach from a Bag of Image Patches to a Vector
1401	Exploring Uncertainty Measures in Deep Networks for Multiple Sclerosis Lesion Detection and
	Segmentation
1402	Towards Automated Colonoscopy Diagnosis: Binary Polyp Size Estimation via Unsupervised Depth
4 4 0 0	Learning
1403	Deep convolutional networks for automated detection of epileptogenic brain mailormations
1426	A Novel Deep Learning Framework on Brain Functional Networks for Early MCI Diagnosis
1434	Integration of Spatial Distribution in Imaging-Genetics
1437	iviore knowledge is Better: Cross-iviodality volume Completion and 3D+2D Segmentation for
1464	Generalizing Deen Models for Elltrasound Image Segmentation
1469	Unsupervised Domain Adaptation for Automatic Estimation of Cardiothoracic Ratio
1400	A Diagnostic Report Generator from CT Volumes on Liver Tumor with Semi-supervised Attention
14,2	Mechanism

1482	Registration-based patient-specific musculoskeletal modeling using high fidelity cadaveric template model
1497	CT-Realistic Lung Nodule Simulation from 3D Conditional Generative Adversarial Networks for Robust Lung Segmentation
1507	Gradient Profile Based Super Resolution of MR Images with Induced Sparsity
1513	Can Deep Learning Relax Endomicroscopy Hardware Miniaturization Requirements?
1521	Learning Generalizable Recurrent Neural Networks from Small Task-fMRI Datasets
1527	Evaluation of adjoint methods in photoacoustic tomography with under-sampled sensors