

2011 Index

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This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2011, and items from previous years that were commented upon or corrected in 2011. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

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The Effect of Eavesdroppers on Network Connectivity: A Secrecy Graph Approach. *Goel, S.*, +, *TIFS Sept. 2011 712-724*

Towards Situational Awareness of Large-Scale Botnet Probing Events. *Li, Z.*, +, *TIFS March 2011 175-188*

Computer security

Comprehensive and Efficient Protection of Kernel Control Data. *Li, J.*, +, *TIFS Dec. 2011 1404-1417*

Darknet-Based Inference of Internet Worm Temporal Characteristics. *Wang, Q.*, +, *TIFS Dec. 2011 1382-1393*

Improved Radiometric Identification of Wireless Devices Using MIMO Transmission. *Shi, Y.*, +, *TIFS Dec. 2011 1346-1354*

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Darknet-Based Inference of Internet Worm Temporal Characteristics. *Wang, Q.*, +, *TIFS Dec. 2011 1382-1393*

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A Simulated Annealing Algorithm for General Threshold Visual Cryptography Schemes. *Chiu, P.-L.*, +, *TIFS Sept. 2011 992-1001*

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A Robust and Fast Video Copy Detection System Using Content-Based Fingerprinting. *Esmaili, M. M.*, +, *TIFS March 2011 213-226*

Extrinsic Signature Embedding and Detection in Electrophotographic Halftoned Images Through Exposure Modulation. *Chiang, P.-J.*, +, *TIFS Sept. 2011 946-959*

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A Privacy-Preserving Buyer-Seller Watermarking Protocol Based on Priced Oblivious Transfer. *Rial, A.*, +, *TIFS March 2011 202-212*

Extrinsic Signature Embedding and Detection in Electrophotographic Halftoned Images Through Exposure Modulation. *Chiang, P.-J.*, +, *TIFS Sept. 2011 946-959*

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A Privacy-Preserving Buyer-Seller Watermarking Protocol Based on Priced Oblivious Transfer. *Rial, A.*, +, *TIFS March 2011 202-212*

Collusion-Resistant Multicast Key Distribution Based on Homomorphic One-Way Function Trees. *Liu, J.*, +, *TIFS Sept. 2011 980-991*

Secure Device Pairing Based on a Visual Channel: Design and Usability Study. *Saxena, N.*, +, *TIFS March 2011 28-38*

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A Simulated Annealing Algorithm for General Threshold Visual Cryptography Schemes. *Chiu, P.-L.*, +, *TIFS Sept. 2011 992-1001*
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 Coding for Cryptographic Security Enhancement Using Stopping Sets. *Harrison, W. K.*, +, *TIFS Sept. 2011 575-584*
 Constrained Function-Based Message Authentication for Sensor Networks. *Yu, C.-M.*, +, *TIFS June 2011 407-425*
 Embedded Extended Visual Cryptography Schemes. *Liu, F.*, +, *TIFS June 2011 307-322*
 Exploiting Trust-Based Social Networks for Distributed Protection of Sensitive Data. *Xu, S.*, +, *TIFS March 2011 39-52*
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 On the Security of Randomized Arithmetic Codes Against Ciphertext-Only Attacks. *Katti, R. S.*, +, *TIFS March 2011 19-27*
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 Optimum Pixel Expansions for Threshold Visual Secret Sharing Schemes. *Shyu, S. J.*, +, *TIFS Sept. 2011 960-969*
 Privacy-Preserving ECG Classification With Branching Programs and Neural Networks. *Barni, M.*, +, *TIFS June 2011 452-468*
 Scaling Laws of Key Predistribution Protocols in Wireless Sensor Networks. *Gu, W.*, +, *TIFS Dec. 2011 1370-1381*
 Secure Adaptive Filtering. *Troncoso-Pastoriza, J. R.*, +, *TIFS June 2011 469-485*
 Signal Sets for Secret Key Agreement With Public Discussion Based on Gaussian and Fading Channels. *Isaka, M.*, +, *TIFS Sept. 2011 523-531*
 Strongly Secure Communications Over the Two-Way Wiretap Channel. *Pierrot, A. J.*, +, *TIFS Sept. 2011 595-605*
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 Lossy Compression and Iterative Reconstruction for Encrypted Image. *Zhang, X.*, +, *TIFS March 2011 53-58*
 Using a Knowledge-Based Approach to Remove Blocking Artifacts in Skin Images for Forensic Analysis. *Tang, C.*, +, *TIFS Sept. 2011 1038-1049*

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Blind Image Watermarking Using a Sample Projection Approach. *Akhaee, M. A.*, +, *TIFS Sept. 2011 883-893*
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 Secret-Fragment-Visible Mosaic Image—A New Computer Art and Its Application to Information Hiding. *Lai, I.-J.*, +, *TIFS Sept. 2011 936-945*

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Watermarking With Flexible Self-Recovery Quality Based on Compressive Sensing and Compositive Reconstruction. *Zhang, X.*, +, *TIFS Dec. 2011 1223-1232*

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BIT-TRAPS: Building Information-Theoretic Traffic Privacy Into Packet Streams. *Mathur, S.*, +, *TIFS Sept. 2011 752-762*
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 Privacy–Security Trade-Offs in Biometric Security Systems—Part I: Single Use Case. *Lai, L.*, +, *TIFS March 2011 122-139*

Privacy–Security Trade-Offs in Biometric Security Systems—Part II: Multiple Use Case. *Lai, L.*, +, *TIFS March 2011 140-151*

Privacy-Preserving ECG Classification With Branching Programs and Neural Networks. *Barni, M.*, +, *TIFS June 2011 452-468*

Secure Type-Based Multiple Access. *Jeon, H.*, +, *TIFS Sept. 2011 763-774*
 Visual Cryptography for Biometric Privacy. *Ross, A.*, +, *TIFS March 2011 70-81*

Write-Once Read-Many Oblivious RAM. *Carbunar, B.*, +, *TIFS Dec. 2011 1394-1403*

Data security

Write-Once Read-Many Oblivious RAM. *Carbunar, B.*, +, *TIFS Dec. 2011 1394-1403*

Database management systems

Database Access Pattern Protection Without Full-Shuffles. *Ding, X.*, +, *TIFS March 2011 189-201*

Preventing the Decodability Attack Based Cross-Matching in a Fuzzy Commitment Scheme. *Kelkboom, E. J. C.*, +, *TIFS March 2011 107-121*

Speculative Parallel Pattern Matching. *Luchaup, D.*, +, *TIFS June 2011 438-451*

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Write-Once Read-Many Oblivious RAM. *Carbunar, B.*, +, *TIFS Dec. 2011 1394-1403*

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Privacy-Preserving ECG Classification With Branching Programs and Neural Networks. *Barni, M.*, +, *TIFS June 2011 452-468*

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Correlation-and-Bit-Aware Spread Spectrum Embedding for Data Hiding. *Valizadeh, A.*, +, *TIFS June 2011 267-282*

Secret-Sharing LDPC Codes for the BPSK-Constrained Gaussian Wiretap Channel. *Wong, C. W.*, +, *TIFS Sept. 2011 551-564*

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Hand-Shape Biometrics Combining the Visible and Short-Wave Infrared Bands. *Ferrer, M. A.*, +, *TIFS Dec. 2011 1305-1314*

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Blind Forensics of Median Filtering in Digital Images. *Yuan, H.-D.*, +, *TIFS Dec. 2011 1335-1345*

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Erratum to “Defending Against Fingerprint-Copy Attack in Sensor-Based Camera Identification” [Mar 11 227-236]. *Goljan, M.*, +, *TIFS June 2011 513*

Digital images

Blind Forensics of Median Filtering in Digital Images. *Yuan, H.-D.*, +, *TIFS Dec. 2011 1335-1345*

Differentiating Between Images Using Wavelet-Based Transforms: A Comparative Study. *Ozparlak, L.*, +, *TIFS Dec. 2011 1418-1431*

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A Robust and Fast Video Copy Detection System Using Content-Based Fingerprinting. *Esmaili, M. M.*, +, *TIFS March 2011 213-226*

Efficient Designated Confirmer Signature and DCS-Based Ambiguous Optimistic Fair Exchange. *Huang, Q.*, +, *TIFS Dec. 2011 1233-1247*

Extrinsic Signature Embedding and Detection in Electrophotographic Halftoned Images Through Exposure Modulation. *Chiang, P.-J.*, +, *TIFS Sept. 2011 946-959*

Preserving Transparency and Accountability in Optimistic Fair Exchange of Digital Signatures. *Huang, X.*, +, *TIFS June 2011 498-512*

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Watermarking With Flexible Self-Recovery Quality Based on Compressive Sensing and Compositive Reconstruction. *Zhang, X.*, +, *TIFS Dec. 2011 1223-1232*

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Robust Image Watermarking Based on Multiscale Gradient Direction Quantization. *Nezhadarya, E.*, +, *TIFS Dec. 2011 1200-1213*

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On Wireless Channels With M -Antenna Eavesdroppers: Characterization of the Outage Probability and ε -Outage Secrecy Capacity. *Prabhu, V. U.*, +, *TIFS Sept. 2011 853-860*

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Extrinsic Signature Embedding and Detection in Electrophotographic Halftoned Images Through Exposure Modulation. *Chiang, P.-J.*, +, *TIFS Sept. 2011 946-959*

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A Discriminative Model for Age Invariant Face Recognition. *Li, Z.*, +, *TIFS Sept. 2011 1028-1037*

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Electrocardiogram (ECG) Biometric Authentication Using Pulse Active Ratio (PAR). *Safie, S. I.*, +, *TIFS Dec. 2011 1315-1322*

Privacy-Preserving ECG Classification With Branching Programs and Neural Networks. *Barni, M.*, +, *TIFS June 2011 452-468*

Electronic commerce

A Privacy-Preserving Buyer–Seller Watermarking Protocol Based on Priced Oblivious Transfer. *Rial, A.*, +, *TIFS March 2011 202-212*

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Extrinsic Signature Embedding and Detection in Electrophotographic Halftoned Images Through Exposure Modulation. *Chiang, P.-J.*, +, *TIFS Sept. 2011 946-959*

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Efficient Designated Confirmer Signature and DCS-Based Ambiguous Optimistic Fair Exchange. *Huang, Q.*, +, *TIFS Dec. 2011 1233-1247*

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Secure Communications Over Wireless Broadcast Networks: Stability and Utility Maximization. *Liang, Y.*, +, *TIFS Sept. 2011 682-692*

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Efficient Designated Confirmer Signature and DCS-Based Ambiguous Optimistic Fair Exchange. *Huang, Q.*, +, *TIFS Dec. 2011 1233-1247*

Write-Once Read-Many Oblivious RAM. *Carbunar, B.*, +, *TIFS Dec. 2011 1394-1403*

Entropy

Low-Rate DDoS Attacks Detection and Traceback by Using New Information Metrics. *Xiang, Y.*, +, *TIFS June 2011 426-437*

Modulation Recognition in Continuous Phase Modulation Using Approximate Entropy. *Pawar, S. U.*, +, *TIFS Sept. 2011 843-852*

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Predictable Three-Parameter Design of Network Covert Communication Systems. *Smith, R. W.*, +, *TIFS March 2011 1-13*

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Correlation-and-Bit-Aware Spread Spectrum Embedding for Data Hiding. *Valizadeh, A.*, +, *TIFS June 2011 267-282*

LDPC Codes for the Gaussian Wiretap Channel. *Klinc, D.*, +, *TIFS Sept. 2011 532-540*

Predictable Three-Parameter Design of Network Covert Communication Systems. *Smith, R. W.*, +, *TIFS March 2011 1-13*

Strong Secrecy on the Binary Erasure Wiretap Channel Using Large-Girth LDPC Codes. *Subramanian, A.*, +, *TIFS Sept. 2011 585-594*

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A Discriminative Model for Age Invariant Face Recognition. *Li, Z.*, +, *TIFS Sept. 2011 1028-1037*

Depth Estimation of Face Images Based on the Constrained ICA Model. *Sun, Z.-L.*, +, *TIFS June 2011 360-370*

Erratum to “Soft Biometric Traits for Continuous User Authentication” [Dec 10 771-780]. *Ninuma, K.*, +, *TIFS Sept. 2011 1180*

Face Verification Using the LARK Representation. *Seo, H. J.*, +, *TIFS Dec. 2011 1275-1286*

Passive Multimodal 2-D+3-D Face Recognition Using Gabor Features and Landmark Distances. *Jahanbin, S.*, +, *TIFS Dec. 2011 1287-1304*

Periocular Biometrics in the Visible Spectrum. *Park, U.*, +, *TIFS March 2011 96-106*

Restoring Degraded Face Images: A Case Study in Matching Faxed, Printed, and Scanned Photos. *Bourlai, T.*, +, *TIFS June 2011 371-384*

Visual Cryptography for Biometric Privacy. *Ross, A.*, +, *TIFS March 2011 70-81*

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Secure Communications Over Wireless Broadcast Networks: Stability and Utility Maximization. *Liang, Y.*, +, *TIFS Sept. 2011 682-692*

Secure Wireless Communication and Optimal Power Control Under Statistical Queueing Constraints. *Qiao, D.*, +, *TIFS Sept. 2011 628-639*

Signal Sets for Secret Key Agreement With Public Discussion Based on Gaussian and Fading Channels. *Isaka, M.*, +, *TIFS Sept. 2011 523-531*

Wireless Secrecy Regions With Friendly Jamming. *Vilela, J. P.*, +, *TIFS June 2011 256-266*

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A Discriminative Model for Age Invariant Face Recognition. *Li, Z.*, +, *TIFS Sept. 2011 1028-1037*

A Local-Concentration-Based Feature Extraction Approach for Spam Filtering. *Zhu, Y.*, +, *TIFS June 2011 486-497*

A Robust and Fast Video Copy Detection System Using Content-Based Fingerprinting. *Esmaili, M. M.*, +, *TIFS March 2011 213-226*

A SIFT-Based Forensic Method for Copy–Move Attack Detection and Transformation Recovery. *Amerini, L.*, +, *TIFS Sept. 2011 1099-1110*

A Unified Framework for Contactless Hand Verification. *Kanhangad, V.*, +, *TIFS Sept. 2011 1014-1027*

Collaborative Pedestrian Tracking and Data Fusion With Multiple Cameras. *Lin, D.-T.*, +, *TIFS Dec. 2011 1432-1444*

Differentiating Between Images Using Wavelet-Based Transforms: A Comparative Study. *Ozparlak, L.*, +, *TIFS Dec. 2011 1418-1431*

Electrocardiogram (ECG) Biometric Authentication Using Pulse Active Ratio (PAR). *Safie, S. I.*, +, *TIFS Dec. 2011 1315-1322*

Fingerprint Matching Incorporating Ridge Features With Minutiae. *Choi, H.*, +, *TIFS June 2011 338-345*

How to Generate Spoofed Irises From an Iris Code Template. *Venugopalan, S.*, +, *TIFS June 2011 385-395*

Human Identification Using Palm-Vein Images. *Zhou, Y.*, +, *TIFS Dec. 2011 1259-1274*

Identifying Image Composites Through Shadow Matte Consistency. *Liu, Q.*, +, *TIFS Sept. 2011 1111-1122*

Improving Fingerprint Orientation Extraction. *Turroni, F.*, +, *TIFS Sept. 2011 1002-1013*

Passive Multimodal 2-D+3-D Face Recognition Using Gabor Features and Landmark Distances. *Jahanbin, S.*, +, *TIFS Dec. 2011 1287-1304*

Periocular Biometrics in the Visible Spectrum. *Park, U.*, +, *TIFS March 2011 96-106*

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Blind Forensics of Median Filtering in Digital Images. *Yuan, H.-D.*, +, *TIFS Dec. 2011 1335-1345*

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A Robust and Fast Video Copy Detection System Using Content-Based Fingerprinting. *Esmaili, M. M.*, +, *TIFS March 2011 213-226*

Candidate List Reduction Based on the Analysis of Fingerprint Indexing Scores. *Cappelli, R.*, +, *TIFS Sept. 2011 1160-1164*

Defending Against Fingerprint-Copy Attack in Sensor-Based Camera Identification. *Goljan, M.*, +, *TIFS March 2011 227-236*

Fingerprint Matching Incorporating Ridge Features With Minutiae. *Choi, H.*, +, *TIFS June 2011 338-345*

Improvement of Fingerprint Retrieval by a Statistical Classifier. *Leung, K. C.*, +, *TIFS March 2011 59-69*

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Modeling the Growth of Fingerprints Improves Matching for Adolescents. *Gottschlich, C.*, +, *TIFS Sept. 2011 1165-1169*

Separating Overlapped Fingerprints. *Chen, F.*, +, *TIFS June 2011 346-359*

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Power and Subcarrier Allocation for Physical-Layer Security in OFDMA-Based Broadband Wireless Networks. *Wang, X.*, +, *TIFS Sept. 2011 693-702*

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An Information Secrecy Game in Cognitive Radio Networks. *Wu, Y.*, +, *TIFS Sept. 2011 831-842*

MIMO Interference Channel With Confidential Messages: Achievable Secrecy Rates and Precoder Design. *Fakoorian, S. A. A.*, +, *TIFS Sept. 2011 640-649*

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Key Agreement Over Multiple Access Channel. *Salimi, S.*, +, *TIFS Sept. 2011 775-790*

LDPC Codes for the Gaussian Wiretap Channel. *Klinc, D.*, +, *TIFS Sept. 2011 532-540*

MIMO Interference Channel With Confidential Messages: Achievable Secrecy Rates and Precoder Design. *Fakoorian, S. A. A.*, +, *TIFS Sept. 2011 640-649*

On the Secrecy Degrees of Freedom of the Multiantenna Block Fading Wiretap Channels. *Kobayashi, M.*, +, *TIFS Sept. 2011 703-711*

Secret-Key Agreement With Channel State Information at the Transmitter. *Khisti, A.*, +, *TIFS Sept. 2011 672-681*

Secret-Sharing LDPC Codes for the BPSK-Constrained Gaussian Wiretap Channel. *Wong, C. W.*, +, *TIFS Sept. 2011 551-564*

Signal Sets for Secret Key Agreement With Public Discussion Based on Gaussian and Fading Channels. *Isaka, M.*, +, *TIFS Sept. 2011 523-531*

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Collusion-Resistant Multicast Key Distribution Based on Homomorphic One-Way Function Trees. *Liu, J.*, +, *TIFS Sept. 2011 980-991*

Strong Secrecy on the Binary Erasure Wiretap Channel Using Large-Girth LDPC Codes. *Subramanian, A.*, +, *TIFS Sept. 2011 585-594*

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Quality-Driven Super-Resolution for Less Constrained Iris Recognition at a Distance and on the Move. *Nguyen, K.*, +, *TIFS Dec. 2011 1248-1258*

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Erratum to "Soft Biometric Traits for Continuous User Authentication" [Dec 10 771-780]. *Niinuma, K.*, +, *TIFS Sept. 2011 1180*

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Digital Image Authentication From JPEG Headers. *Kee, E.*, +, *TIFS Sept. 2011 1066-1075*

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IEEE

List of Reviewers. , *TIFS Dec. 2011 1445-1448*

IEEE standards

Keys Through ARQ: Theory and Practice. *Abdallah, Y.*, +, *TIFS Sept. 2011 737-751*

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A Simulated Annealing Algorithm for General Threshold Visual Cryptography Schemes. *Chiu, P.-L.*, +, *TIFS Sept. 2011 992-1001*

Anti-forensics of digital image compression. *Stamm, M.C.*, +, *TIFS Sept. 2011 1050-1065*

Blind Forensics of Median Filtering in Digital Images. *Yuan, H.-D.*, +, *TIFS Dec. 2011 1335-1345*

Blind Image Watermarking Using a Sample Projection Approach. *Akhaee, M. A.*, +, *TIFS Sept. 2011 883-893*

Detecting Recompression of JPEG Images via Periodicity Analysis of Compression Artifacts for Tampering Detection. *Chen, Y.-L.*, +, *TIFS June 2011 396-406*

Digital Image Authentication From JPEG Headers. *Kee, E.*, +, *TIFS Sept. 2011 1066-1075*

How to Generate Spoofed Irises From an Iris Code Template. *Venugopalan, S.*, +, *TIFS June 2011 385-395*

Lossy Compression and Iterative Reconstruction for Encrypted Image. *Zhang, X.*, +, *TIFS March 2011 53-58*

Optimum Pixel Expansions for Threshold Visual Secret Sharing Schemes. *Shyu, S. J.*, +, *TIFS Sept. 2011 960-969*

Secret-Fragment-Visible Mosaic Image—A New Computer Art and Its Application to Information Hiding. *Lai, I.-J.*, +, *TIFS Sept. 2011 936-945*

Towards Shift Tolerant Visual Secret Sharing Schemes. *Wang, D.*, +, *TIFS June 2011 323-337*

Using a Knowledge-Based Approach to Remove Blocking Artifacts in Skin Images for Forensic Analysis. *Tang, C.*, +, *TIFS Sept. 2011 1038-1049*

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Secret-Fragment-Visible Mosaic Image—A New Computer Art and Its Application to Information Hiding. *Lai, I.-J.*, +, *TIFS Sept. 2011 936-945*

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Restoring Degraded Face Images: A Case Study in Matching Faxed, Printed, and Scanned Photos. *Bourlai, T.*, +, *TIFS June 2011 371-384*

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A Discriminative Model for Age Invariant Face Recognition. *Li, Z.*, +, *TIFS Sept. 2011 1028-1037*

Collaborative Pedestrian Tracking and Data Fusion With Multiple Cameras. *Lin, D.-T.*, +, *TIFS Dec. 2011 1432-1444*

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A Discriminative Model for Age Invariant Face Recognition. *Li, Z.*, +, *TIFS Sept. 2011 1028-1037*

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- Defending Against Fingerprint-Copy Attack in Sensor-Based Camera Identification. *Goljan, M., +, TIFS March 2011 227-236*
- Erratum to "Defending Against Fingerprint-Copy Attack in Sensor-Based Camera Identification" [Mar 11 227-236]. *Goljan, M., +, TIFS June 2011 513*
- Fingerprint Matching Incorporating Ridge Features With Minutiae. *Choi, H., +, TIFS June 2011 338-345*
- Modeling the Growth of Fingerprints Improves Matching for Adolescents. *Gottschlich, C., +, TIFS Sept. 2011 1165-1169*
- Periocular Biometrics in the Visible Spectrum. *Park, U., +, TIFS March 2011 96-106*
- Restoring Degraded Face Images: A Case Study in Matching Faxed, Printed, and Scanned Photos. *Bourlai, T., +, TIFS June 2011 371-384*
- Visual Cryptography for Biometric Privacy. *Ross, A., +, TIFS March 2011 70-81*
- Image processing**
- A SIFT-Based Forensic Method for Copy-Move Attack Detection and Transformation Recovery. *Amerini, I., +, TIFS Sept. 2011 1099-1110*
- Embedded Extended Visual Cryptography Schemes. *Liu, F., +, TIFS June 2011 307-322*
- Image recognition**
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- Human Identification Using Palm-Vein Images. *Zhou, Y., +, TIFS Dec. 2011 1259-1274*
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- Lossy Compression and Iterative Reconstruction for Encrypted Image. *Zhang, X., +, TIFS March 2011 53-58*
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- Towards Shift Tolerant Visual Secret Sharing Schemes. *Wang, D., +, TIFS June 2011 323-337*
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