

資訊科技創新研究中心

黃彥男 (HUANG, YEN-NUN)

期刊論文

Hung-Li Chen, Yao-Tung Tsou, Bo-Chen Tai, Szu-Chuang Li, Yennun Huang, Chia-Mu Yu, and Yu-Shian Chiu (2016, Nov). Developments and Applications of Data Deidentification Technology Under Big Data. JOURNAL OF ELECTRONIC SCIENCE AND TECHNOLOGY. (Accepted).

Yao-Tung Tsou, Yung-Li Hu, Yennun Huang, Sy-Yen Kuo (2016, Jan). SFTopk: Secure Functional Top-k Query via Untrusted Data Storage. IEEE ACCESS, 3, 2875 - 2890.

學術會議(研討會)論文

Bo-Chen Tai, Su-Chuang Li and Yennun Huang (2016, Dec). K-aggregation: Improving Utility for Synthetic Dataset using Differential Privacy. the 31-th IEEE AINA-2017 International Conference and for publication in IEEE CPS Conference Proceedings. (Accepted).

Chia-Mu Yu, Kang-Cheng Chen, Bo-Chen Tai, Szu-Chuang Li, Yennun Huang, Chia-Ming Lin and Yao-Tung Tsou (2016, Dec). Data-Driven Approach for Evaluating Risk of Disclosure and Utility in Differentially Private Data Release. the 31-th IEEE AINA-2017 International Conference and for publication in IEEE CPS Conference Proceedings. (Accepted).

Chien-Hung Chen, Ting-Yuan Hsia, Yennun Huang and Sy-Yen Kuo (2016, Dec). Scheduling-Aware Data Prefetching for Data Processing Services in Cloud. the 31-th IEEE AINA-2017 International Conference and for publication in IEEE CPS Conference Proceedings. (Accepted).

Chieh-Ming Chang, Szu-Chuang Li, Yennun Huang (2016, Dec). Building Bluetooth Beacon-based Network for Spatial-Temporal Data Collection. 2016 International Conference on Communication and Information Systems (ACM ICCIS 2016), 91-95.

Chieh-ming Chang, Szu-Chuang Li, Yennun Huang (2016, Dec). Crowdsensing Traces Visualization in Bluetooth Beacon-based Sensor Network Using Wearable Device. The 9th ACM SIGGRAPH conference.

Chieh-Ming Chang, Szu-Chuang Li, Yennun Huang (2016, Sep). Crowdsensing Route Reconstruction using Portable Bluetooth Beacon-based two-way network. The 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2016).

Hung-Li Chen, Jia-Yang Chen, Yao-Tung Tsou, Chia-Mu Yu, Bo-Chen Tai, Szu-Chuang Li, Yennun Huang and Chia-Ming Lin (2016, Sep). Evaluating the Risk of Data Disclosure Using Noise Estimation for Differential Privacy. The 22nd IEEE Pacific Rim International Symposium on Dependable Computing (PRDC 2017). (Accepted).

陳泓歷, 賈椽, 鄒耀東, 戴伯臣, 游家牧, 李思壯, 黃彥男, 邱育賢 (2016年05月)。大數據下差分隱私資料去識別化技術發展與應用。第二十六屆全國資訊安全會議(CISC 2016) Cryptology and Information Security Conference 2016

王鈺強 (WANG, YU-CHIANG)

期刊論文

- Cheng-An Hou, Y.-H. Hubert Tsai, Yi-Ren Yeh, Y.-C. Frank Wang*, 2016, “Unsupervised Domain Adaptation with Label and Structural Consistency”, *IEEE TRANSACTIONS ON IMAGE PROCESSING*, 25(12), 5552-5562. (SCI) (IF: 3.735; SCI ranking: 5.4%,8.5%)
- K.-H. Lo, Y.-C. F. Wang, K.-L. Hua, 2016, “Example-based Image Textural Style Transfer”, *IEEE MultiMedia*, 23(4), 60-66. (SCI) (IF: 1.361; SCI ranking: 42.4%,33.3%,27.4%,32.4%)
- K.-L. Hua, S. C. Hidayati, F.-L. He, C.-P. Wei, Y.-C. F. Wang, 2016, “Context-Aware Joint Dictionary Learning for Color Image Demosaicking”, *Journal of Visual Communication and Image Representation*, 38, 230-245. (SCI) (IF: 1.53; SCI ranking: 34%,17.9%)
- K.-S. Huang, P.-J. Chiu, H.-M. Tsai, C.-C. Kuo, H.-Y. Lee, Y.-C. F. Wang, 2016, “RedEye: Preventing Collisions Caused by Red-Light Running Scooters with Smartphones”, *IEEE Transactions on Intelligent Transportation Systems*, 17(5), 1243-1257. (SCI) (IF: 2.534; SCI ranking: 6.3%,24.2%,15.2%)
- K.-H. Lo, Y.-C. F. Wang, and K.-L. Hua, 2016, “Extended Guided Filtering for Depth Map Upsampling”, *IEEE MultiMedia*, 23(2), 72-83. (SCI) (IF: 1.361; SCI ranking: 42.4%,33.3%,27.4%,32.4%)

學術會議(研討會)論文

- W.-Y. Chen, T.-M. H. Hsu, Y.-H. H. Tsai, Y.-C. F. Wang, M.-S. Chen, 2016, “Transfer Neural Trees for Heterogeneous Domain Adaptation”, paper presented at *The 14th European Conference on Computer Vision (ECCV)*, Amsterdam, Netherlands: -, 2016-10-08 ~ 2016-10-16.
- C.-K. Yeh, W.-C. Wu, Y.-C. F. Wang*, 2016, “Learning Graph Fusion for Query and Database Specific Image Retrieval”, paper presented at *IEEE International Workshop on Multimedia Signal Processing (MMSP)*, Montreal, Canada: IEEE, 2016-09-21 ~ 2016-09-23.
- W.-J. Ko, Y.-C. F. Wang, S.-Y. Chien, 2016, “Learning Patch-Based Anchors for Face Hallucination”, paper presented at *IEEE International Workshop on Multimedia Signal Processing (MMSP)*, Montreal, Canada: IEEE, 2016-09-21 ~ 2016-09-23.
- H.-Y. D. Wen, Y.-C. F. Wang*, 2016, “Robust Propagated Filtering with Applications to Image Texture Filtering and Beyond”, paper presented at *IEEE International Workshop on Multimedia Signal Processing (MMSP)*, Montreal, Canada: IEEE, 2016-09-21 ~ 2016-09-23.
- Y.-T. Hsieh, S.-Y. Tao, Y.-H. H. Tsai, Y.-C. F. Wang*, 2016, “Recognizing Heterogeneous Cross-Domain Data via Generalized Joint Distribution Adaptation”, paper presented at *IEEE International Conference on Multimedia and Expo (ICME)*, Seattle, USA: IEEE, 2016-07-11 ~ 2016-07-15.
- C.-P. Wei, Y.-C. F. Wang*, 2016, “With One Look: 3D Face Shape Estimation from a Single Snapshot”, paper presented at *IEEE International Conference on Multimedia and Expo (ICME)*, Seattle, USA: IEEE, 2016-07-11 ~ 2016-07-15.
- Y.-H. Tsai, Y.-R. Yeh, Y.-C. F. Wang*, 2016, “Learning Cross-Domain Landmarks for Heterogeneous Domain Adaptation”, paper presented at *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, USA: IEEE, 2016-06-26 ~ 2016-07-01.

- Y.-H. Tsai, Y.-R. Yeh, Y.-C. F. Wang*, 2016, "Heterogeneous Domain Adaptation with Label and Structure Consistency", paper presented at *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Shanghai, China: IEEE, 2016-03-20 ~ 2016-03-25.
- T.-E. Tseng, W.-Y. Chang, C.-S. Chen, Y.-C. F. Wang*, 2016, "Style Retrieval from Natural Images", paper presented at *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Shanghai, China: IEEE, 2016-03-20 ~ 2016-03-25.
- W.-Y. Chang, Y.-C. F. Wang*, 2016, "Style-Centric Image Summarization from Photographic Views of a City", paper presented at *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Shanghai, China: IEEE, 2016-03-20 ~ 2016-03-25.

修丕承 (HSIU, PI-CHENG)

期刊論文

- Sheng-Wei Cheng, Che-Wei Chang, Jian-Jia Chen, Tei-Wei Kuo, and Pi-Cheng Hsiu, 2016, "Many-Core Real-Time Task Scheduling with Scratchpad Memory", *IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS*, 27(10):2953-2966. (SCI) (IF: 2.661; SCI ranking: 12.8%,8.6%)
- Chun-Han Lin, Chih-Kai Kang, and Pi-Cheng Hsiu*, 2016, "CURA: A Framework for Quality-retaining Power Saving on Mobile OLED Displays", *ACM Transactions on Embedded Computing Systems*, 15(4):76:1-76:25. (SCI) (IF: 0.714; SCI ranking: 60.8%,66%)
- Yu-Ming Chang, Pi-Cheng Hsiu*, Yuan-Hao Chang, Chi-Hao Chen, Tei-Wei Kuo, and Cheng-Yuan Michael Wang, 2016, "Improving PCM Endurance with a Constant-cost Wear Leveling Design", *ACM TRANSACTIONS ON DESIGN AUTOMATION OF ELECTRONIC SYSTEMS*, 22, 9:1-9:27. (SCI) (IF: 0.82; SCI ranking: 60.4%,58.8%)
- Pi-Cheng Hsiu*, Po-Hsien Tseng, Wei-Ming Chen, Chin-Chiang Pan, and Tei-Wei Kuo, 2016, "User-Centric Scheduling and Governing on Mobile Devices with big.LITTLE Processors", *ACM Transactions on Embedded Computing Systems*, 15(1):17:1-17:22. (SCI) (IF: 0.714; SCI ranking: 60.8%,66%)

學術會議(研討會)論文

- Wei-Ming Chen, Tai-Sheng Cheng, Pi-Cheng Hsiu, and Tei-Wei Kuo, 2016, "Value-based Task Scheduling for Nonvolatile Processor-based Embedded Devices", paper presented at *IEEE Real-Time Systems Symposium (RTSS)*, Porto, Portugal, 2016-11-29 ~ 2016-12-02.
- Chi-Sheng Shih, Pi-Cheng Hsiu, Yuan-Hao Chang, Tei-Wei Kuo, 2016, "Framework Designs to Enhance Reliable and Timely Services of Disaster Management Systems", paper presented at *ACM/IEEE International Conference on Computer-Aided Design (ICCAD)*, -, 2016-11-07 ~ 2016-11-10.
- Yu-Wen Jong, Pi-Cheng Hsiu, Sheng-Wei Cheng, and Tei-Wei Kuo, 2016, "A Semantics-Aware Design for Mounting Remote Sensors on Mobile Systems", paper presented at *IEEE/ACM Design Automation Conference (DAC)*, Austin, Texas, USA, 2016-06-05 ~ 2016-06-09.
- Chun-Hao Kao, Sheng-Wei Cheng, and Pi-Cheng Hsiu, 2016, "Similarity-Based Wakeup

Management for Mobile Systems in Connected Standby”, paper presented at *IEEE/ACM Design Automation Conference (DAC)*, Austin, Texas, USA, 2016-06-05 ~ 2016-06-09.

林靖茹 (LIN, CHING-JU)

學術會議(研討會)論文

T.-W. Kuo, B.-H. Liou, K. C.-J. Lin and M.-J. Tsai, 2016, “Deploying Chains of Virtual Network Functions: On the Relation Between Link and Server Usage”, paper presented at *IEEE INFOCOM*, San Francisco, USA: IEEE, 2016-04.

W.-L. Shen, K. C.-J. Lin, M.-S. Chen and K. Tan, 2016, “Client as a First-Class Citizen: Practical User-Centric Network MIMO Clustering”, paper presented at *IEEE INFOCOM*, San Francisco, USA: IEEE, 2016-04.

鍾偉和 (CHUNG, WEI-HO)

期刊論文

Sian-Jheng Lin, Tareq Y. Al-Naffouri, Yungshiang S. Han, Wei-Ho Chung, 2016, “Novel Polynomial Basis With Fast Fourier Transform and Its Application to Reed–Solomon Erasure Codes”, *IEEE TRANSACTIONS ON INFORMATION THEORY*, volume 62, number 11, pages 6284-6299. (SCI) (IF: 1.737; SCI ranking: 27.1%,35.4%)

Chi-Shiang Cho, Wei-Ho Chung, and Sy-Yen Kuo, 2016, “Cyber-Physical Security and Dependability Analysis of Digital Control Systems in Nuclear Power Plants”, *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, volume 46, number 3, pages 356-369.

Han-Wen Liang, Wei-Ho Chung, and Sy-Yen Kuo, 2016, “Coding-aided K-means Clustering Blind Transceiver for Space Shift Keying MIMO Systems”, *IEEE Transactions on Wireless Communications*, volume 15, number 1, pages 103-115.

鄭文皇 (CHENG, WEN-HUANG)

期刊論文

Wei-Cih Jhou and Wen-Huang Cheng, 2016, “Animating Still Landscape Photographs Through Cloud Motion Creation”, *IEEE Transactions on Multimedia*, vol. 18, no. 1, pp. 4-13. (SCI, EI) (IF: 2.536; SCI ranking: 11.1%,3.8%,12.2%)

學術會議(研討會)論文

Bo Wu, Tao Mei, Wen-Huang Cheng, and Yongdong Zhang, 2016, “Unfolding Temporal Dynamics: Predicting Social Media Popularity Using Multi-scale Temporal Decomposition”, paper presented at *The 30th AAAI Conference on Artificial Intelligence (AAAI 2016)*, Phoenix, USA: AAAI, 2016-02-12 ~ 2016-02-17.

Yu-Chen Chen, Shintami C. Hidayati, Wen-Huang Cheng, Min-Chun Hu, and Kai-Lung Hua, 2016, “Locality Constrained Sparse Representation for Cat Recognition”, paper presented at *The 2016*

International MultiMedia Modeling Conference (MMM 2016), Miami, USA: MMM, 2016-01-04 ~ 2016-01-06.

Heng-Yu Chi, Wen-Huang Cheng, Chuang-Wen You, and Ming-Syan Chen, 2016, “What Catches Your Eyes as You Move Around? On the Discovery of Interesting Regions in the Street”, paper presented at *The 2016 International MultiMedia Modeling Conference (MMM 2016)*, Miami, USA: MMM, 2016-01-04 ~ 2016-01-06.

林彥宇 (LIN, YEN-YU)

期刊論文

Pai-Heng Hsiao, Feng-Ju Chang, and Yen-Yu Lin*, 2016, “Learning Discriminatively Reconstructed Source Data for Object Recognition with Few Examples”, *IEEE Transactions on Image Processing (TIP)*, 3518-3532.

學術會議(研討會)論文

Chun-Rong Huang, Wei-An Wang, Szu-Yu Lin, and Yen-Yu Lin, 2016, “USEQ: Ultra-Fast Superpixel Extraction via Quantization”, 6 pages, paper presented at *IEEE International Conference on Pattern Recognition (ICPR)*, Cancun, Mexico: IEEE, 2016-12-04 ~ 2016-12-08.

Tsun-Yi Yang, Yen-Yu Lin, and Yung-Yu Chuang, 2016, “Accumulated Stability Voting: A Robust Descriptor from Descriptors of Multiple Scales”, 9 pages, paper presented at *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, USA: IEEE, 2016-06-27 ~ 2016-07-01.

Yuan-Ting Hu and Yen-Yu Lin, 2016, “Progressive Feature Matching with Alternate Descriptor Selection and Correspondence Enrichment”, 9 pages, paper presented at *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, USA: IEEE, 2016-06-27 ~ 2016-07-01.

Tsung-Yu Tsai, Yen-Yu Lin, Hong-Yuan Mark Liao, and Shyh-Kang Jeng, 2016, “Precise Player Segmentation in Team Sports Videos Using Contrast-Aware Co-Segmentation”, 5 pages, paper presented at *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Beijing, China: IEEE, 2016-03-20 ~ 2016-03-25.

楊奕軒 (YANG, YI-HSUAN)

期刊論文

M. Schedl, Y.-H. Yang, and P. Herrera, 2016, “Introduction to intelligent music systems and applications”, *ACM Transactions on Intelligent Systems and Technology*, 8(2), 1-8. (SCI) (IF: 2.414; SCI ranking: 23.1%,13.9%)

Tak-Shing Chan and Yi-Hsuan Yang, 2016, “Polar n-complex and n-bicomplex singular value decomposition and principal component pursuit”, *IEEE TRANSACTIONS ON SIGNAL PROCESSING*, 64(24), 6533-6544. (SCI) (IF: 2.624; SCI ranking: 13.2%)

P.-K. Jao, L. Su, Y.-H. Yang and B. Wohlberg, 2016, “Monaural music source separation using

convolutional sparse coding”, *IEEE TRANSACTIONS ON ACOUSTICS SPEECH AND SIGNAL PROCESSING*, 24(11), 2158-2170.

Ping-Keng Jao, Li Su, Yi-Hsuan Yang and Brendt Wohlberg, 2016, “Monaural Music Source Separation using Convolutional Sparse Coding”, *IEEE/ACM Trans. Audio, Signal Language Proc. (TASLP)*, 24, 2158 - 2170.

Tak-Shing Chan and Yi-Hsuan Yang, 2016, “Complex and quaternionic principal component pursuit and its application to audio separation”, *IEEE SIGNAL PROCESSING LETTERS*, 23(2), 287-291. (SCI) (IF: 1.661; SCI ranking: 37%)

學術會議(研討會)論文

M.-H. Yang, L. Su and Y.-H. Yang, 2016, “Highlighting root notes in chord recognition using cepstral features and multi-task learning”, paper presented at *Asia Pacific Signal and Infor. Proc. Asso. Annual Summit and Conf.*, Jeju, Korea: Asia Pacific Signal and Infor. Proc. Asso., 2016-12-13 ~ 2016-12-16.

Mu-Heng Yang, Li Su and Yi-Hsuan Yang, 2016, “Highlighting root notes in chord recognition using cepstral features and multi-task learning”, paper presented at *Proc. Asia Pacific Signal and Infor. Proc. Asso. Annual Summit and Conf. (APSIPA ASC)*, -, -, 2016-12.

Chih-Hong Yang, Pei-Ching Li, Alvin Su, Li Su and Yi-Hsuan Yang, 2016, “Automatic violin synthesis using expressive musical term features”, paper presented at *Proc. Int. Conf. Digital Audio Effects (DAFx)*, -, -, 2016-11.

Event localization in music auto-tagging, 2016, “J.-Y. Liu and Y.-H. Yang”, 1048-1057 pages, paper presented at *ACM Multimedia*, Amsterdam, The Netherlands: ACM, 2016-10-15 ~ 2016-10-19.

S.-Y. Chou, Y.-H. Yang, J.-S. Jang and Y.-C. Lin, 2016, “Addressing cold start for next-song recommendation”, paper presented at *ACM Recommender Systems*, Boston, USA: ACM, 2016-09-15 ~ 2016-09-19.

C.-M. Chen, M.-F. Tsai, Y.-C. Lin and Y.-H. Yang, 2016, “Query-based music recommendations via preference embedding”, 79-82 pages, paper presented at *ACM Recommender Systems*, Boston, USA: ACM, 2016-09-15 ~ 2016-09-19.

C.-H. Yang, P.-C. Li, A. W. Y. Su, L. Su, and Y.-H. Yang, 2016, “Automatic violin synthesis using expressive musical term features”, paper presented at *Int. Conf. Digital Audio Effects*, Brno, Czech Republic: Int. Conf. Digital Audio Effects, 2016-09-05 ~ 2016-09-09.

Li Su, Tsung-Ying Chuang and Yi-Hsuan Yang, 2016, “Exploiting frequency, periodicity and harmonicity using advanced time-frequency concentration techniques for multipitch estimation of choir and symphony”, 393-399 pages, paper presented at *Int. Society of Music Information Retrieval Conf*, New York, USA: Int. Society of Music Information Retrieval, 2016-08-07 ~ 2016-08-11.

Li Su, Tsung-Ying Chuang and Yi-Hsuan Yang, 2016, “Exploiting frequency, periodicity and harmonicity using advanced time-frequency concentration techniques for multipitch estimation of choir and symphony”, paper presented at *International Society for Music Information Retrieval Conference (ISMIR)*, -, -, 2016-08.

曹昱 (TSAO, YU)

期刊論文

- S.-H. Fang, W.-H. Chang, Y. Tsao*, H.-C. Shih, and C. Wang, accepted, “Channel state reconstruction using multilevel discrete wavelet transform for improved fingerprinting-based indoor localization”, *IEEE SENSORS JOURNAL*, 16(21), 7784 - 7791. (SCI) (IF: 1.889; SCI ranking: 35.9%,30%,28.6%)
- H.-L. S. Wang, I.-C. Chen, C.-H. Chiang, Y.-H. Lai, and Y. Tsao, 2016, “Auditory perception, suprasegmental speech processing, and vocabulary development in Chinese preschool-ers”, *PERCEPTUAL AND MOTOR SKILLS*, 123(2). (SSCI) (IF: 0.618; SSCI ranking: 98.8%)
- S.-H. Fang , H.-H. Liao , Y.-X. Fei , K.-H. Chen , J.- W. Huang , Y.-D. Lu and Y. Tsao, 2016, “Transportation modes classification using sensors on smartphones”, *SENSORS*, 16(8). (SCI) (IF: 2.033; SCI ranking: 59.3%,48%,21.4%)
- S.-S. Wang, A. Chern, Y. Tsao, J.-w. Hung, X. Lu, Y.-H. Lai, and B. Su , 2016, “Wavelet speech enhancement based on nonnegative matrix factorization”, *IEEE SIGNAL PROCESSING LETTERS*, 23(8), 1101-1105. (SCI) (IF: 1.661; SCI ranking: 37%)
- P. Lin, S.-W. Fu, Y.-H. Lai, and H. Jing, Y. Tsao, , 2016, “Deep belief networks initialized by maximum entropy learning”, *Entropy*, 18(7). (SCI) (IF: 1.743; SCI ranking: 31.6%)
- F. Chen, Y. Tsao, Y.-H. Lai, 2016, “Modeling speech intelligibility with recovered envelope from temporal fine-structure stimulus”, *SPEECH COMMUNICATION*, 81, 120–128. (SCI) (IF: 1.038; SCI ranking: 75%,53.1%)
- Y. Tsao and Y.-H. Lai, 2016, “Generalized maximum a posteriori spectral amplitude estimation for speech enhancement”, *SPEECH COMMUNICATION*, 76, 112–126. (SCI) (IF: 1.038; SCI ranking: 75%,53.1%)

張佑榕 (CHANG, RONALD)

期刊論文

- C.-H. Chang, R. Y. Chang, and F.-T. Chien, 2016, “Energy-Assisted Information Detection for Simultaneous Wireless Information and Power Transfer: Performance Analysis and Case Studies”, *IEEE Transactions on Signal and Information Processing over Networks*, 2(2), 149-159.
- Y. Chang, R. Y. Chang, C.-Y. Lin, and X. Luo, 2016, “Mandarin Tone and Vowel Recognition in Cochlear Implant Users: Effects of Talker Variability and Bimodal Hearing”, *Ear and Hearing*, 37(3), 271-281. (SCI) (IF: 2.517; SCI ranking: 14%,16%)
- H.-J. Chou, R. Y. Chang, and J.-M. Wu, 2016, “Degrees-of-Freedom-Based Sequential Base-Station Selection in Cochannel MIMO Networks”, *IEEE Transactions on Vehicular Technology*, 65(2), 953-959. (SCI) (IF: 2.243; SCI ranking: 17.1%,30.3%,21.4%)

學術會議(研討會)論文

- D. K. Verma and R. Y. Chang, 2016, “Energy-Assisted Decode-and-Forward in Energy Harvesting Cooperative Spectrum-Sharing Networks”, paper presented at *IEEE Global Communications Conference (GLOBECOM)*, Washington, DC, USA: IEEE, 2016-12-04 ~ 2016-12-08.
- I. Dey and R. Y. Chang, 2016, “Adaptive Coded Modulation for Mobility Constrained Indoor Wireless Environments”, paper presented at *IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*, Valencia, Spain: IEEE, 2016-09-04 ~ 2016-09-07.
- J.-J. Ding, N.-C. Wang, S.-C. Chuang, and R. Y. Chang, 2016, “Morphology-Based Disparity Estimation and Rendering Algorithm for Light Field Images”, paper presented at *IEEE International Conference on Consumer Electronics - Taiwan (ICCE-TW)*, Nantou, Taiwan: IEEE, 2016-05-27 ~ 2016-05-29.
- H.-J. Chou and R. Y. Chang, 2016, “Interference-Aware D2D Mode Selection in Hybrid MIMO Cellular Networks”, paper presented at *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia: IEEE, 2016-05-23 ~ 2016-05-27.
- Y.-K. Cheng, H.-J. Chou, and R. Y. Chang, 2016, “Machine-Learning Indoor Localization with Access Point Selection and Signal Strength Reconstruction”, paper presented at *IEEE Vehicular Technology Conference (VTC)*, Nanjing, China: IEEE, 2016-05-15 ~ 2016-05-18.
- I. Ali, R. Y. Chang, and J. Y.-C. Liu, 2016, “Multilayer CPW-Fed Patch Antenna on New AMC Ground Plane for 60 GHz Millimeter-Wave Communications”, paper presented at *IEEE Vehicular Technology Conference (VTC)*, Nanjing, China: IEEE, 2016-05-15 ~ 2016-05-18.
- Y.-T. Liu, Y. Tsao, and R. Y. Chang, 2016, “Nonnegative Matrix Factorization-Based Frequency Lowering Technology for Mandarin-Speaking Hearing Aid Users”, paper presented at *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Shanghai, China: IEEE, 2016-03-20 ~ 2016-03-25.

王志宇 (WANG, CHIH-YU)

期刊論文

- Yan Chen, Chunxiao Jiang, Chih-Yu Wang, Yang Gao, K.J. Ray Liu*, 2016, “Decision Learning: Data Analytic Learning with Strategic Decision Making”, *IEEE SIGNAL PROCESSING MAGAZINE*, 33(1), 37-56. (SCI) (IF: 6.671; SCI ranking: 1.2%)

學術會議(研討會)論文

- Fredrick Mzee Awuor, Chih-Yu Wang*, 2016, “Massive Machine Type Communication in Cellular System: A Distributed Queue Approach”, paper presented at *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia: IEEE, 2016-05-23 ~ 2016-05-27.

嚴漢偉 (YEN, ERIC)

期刊論文

- E. Yen, F. Lee, et al, 2016, “Distributed Cloud Operating System Development at Academia Sinica”, *Proceedings of Science*, PoS(ISGC 2016)038. (Online Journal)

李德財 (LEE, DER-TSAI)

期刊論文

B.-S. Dai, Mong-Jen Kao and D.T. Lee, 2016, “Optimal Time-Convex Hull for a Straight-Line Highway in Lp-Metrics”, *Computational Geometry: Theory and Applications*, 53, 1-20.

何建明 (HO, JAN-MING)

期刊論文

Chi-Jen Wu, Chin-Fu Ku, Jan-Ming Ho, and Ming-Syan Chen, 2016, “A Novel Pipeline Approach for Efficient Big Data Broadcasting”, *IEEE Transactions on Knowledge and Data Engineering*, 28, 17 - 28. (SCI) (IF: 2.476; SCI ranking: 11.8%,16.3%,21.5%)

學術會議(研討會)論文

Hsin-Tsung Peng, William Hsu, Jan-Ming Ho and Min-Ruey Yu, 2016, “Homomorphic Encryption Application on FinancialCloud Framework”, paper presented at *2016 IEEE Symposium Series on Computational Intelligence*, Athens, Greece: -, 2016-12.

Hung-Min Hsu, Wei-Sheng Zeng, Chen-Shuo Hung, Dung-Sheng Chen, Ray-I Chang, Shian-Hua Lin, Jan-Ming Ho, 2016, “Frame Dispatcher: A Multiframe Classification System for Social Movement by using Microblogging Data”, paper presented at *Proceedings 2016 IEEE/WIC/ACM International Conference on Web Intelligence (WI'16)*., -: -, 2016-10.

Yu-Chi Liu, Wei-Chun Chung, Meng-Huang Lee, Kuan-Jen Wang, Shin-Hung Chang, Chi-Jen Wu, Ray-I Chang, and Jan-Ming Ho, 2016, “Scheduling of Optimal DASH Streaming”, paper presented at *International Conference on Internet of Things and Cloud Computing*, Cambridge, United Kingdom: -, 2016-03.

廖弘源 (LIAO, HONG-YUAN MARK)

學術會議(研討會)論文

T.Y. Tsai, Y. Y. Lin, H.Y. Mark Liao, and S. K. Jeng, 2016, “Precise Player Segmentation in Team Sports Videos Using Contrast-Aware Co-segmentation”, paper presented at *IEEE International Conference on Acoustics, Speech, and Signal Processing*, IEEE: -, 2016-03.

陳孟彰 (CHEN, MENG-CHANG)

期刊論文

Li-Ming Chen, Shun-Wen Hsiao, Meng Chang Chen, WanJiun Liao, 2016, “Slow-Paced Persistent Network Attacks Analysis and Detection Using Spectrum Analysis”, *IEEE Systems Journal*, 10, 1326 - 1337. (SCI) (IF: 2.114; SCI ranking: 18.8%,20.7%,20.7%,24.5%)

陳祝嵩 (CHEN, CHU-SONG)

學術會議(研討會)論文

Huei-Fang Yang, Kevin Lin, and Chu-Song Chen, 2016, “Cross-batch Reference Learning for Deep Classification and Retrieval”, paper presented at *ACM International Conference on Multimedia 2016, ACM MM 2016 (full paper)*, -: -, 2016-10.

Kevin Lin, Jiwen Lu, Chu-Song Chen, and Jie Zhou, 2016, “Learning Compact Binary Descriptors with Unsupervised Deep Neural Networks”, paper presented at *International Conference on Computer Vision and Pattern Recognition, CVPR 2016*, -: -, 2016-06.

Kuan-Hsien Liu, Ting-Yen Chen, and Chu-Song Chen, 2016, “MVC: A Dataset for View-Invariant Clothing Retrieval and Attribute Prediction”, paper presented at *ACM International Conference on Multimedia Retrieval, ICMR 2016*, -: -, 2016-06.

Ting-En Tseng, Wei-Yi Chang, Chu-Song Chen, and Yu-Chiang Frank Wang, 2016, “Style Retrieval from Natural Images”, paper presented at *IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP 2016*, -: -, 2016-03.

呂俊賢 (LU, CHUN SHIEN)

學術會議(研討會)論文

Sung-Hsien Hsieh, Chun-Shien Lu, and Soo-Chang Pei, 2016, “Fast and Cost-Effective Greedy Algorithm for Compressive Sensing of Large-Scale Signals”, paper presented at *IEEE GlobalSIP Symposium on Signal Processing of Big Data*, -: -, 2016-12.

Sung-Hsien Hsieh, Chun-Shien Lu, and Soo-Chang Pei, 2016, “Fast Binary Embedding via Circulant Downsampled Matrix”, , 1789-1793 pages, paper presented at *IEEE ICIP*, -: -, 2016-09.

王建民 (WANG, CHIEN-MIN)

學術會議(研討會)論文

Joshua Ho and Chien-Min Wang, 2016, “Towards More Efficient and Cost-Effective Augmented Reality on Wearable Computer Using Contextual Learning of User-Centric Computing and Social Crowdsourcing”, paper presented at *Proceedings of the First International Conference on Wearable Technologies, Knowledge Development, and Learning*, -: -, 2016-11.

Joshua Ho and Chien-Min Wang, 2016, “User-Centric and Real-Time Activity Recognition Using Smart Glasses”, paper presented at *Proceedings of The 11th International Conference on Green, Pervasive and Cloud Computing*, -: -, 2016-05.

張韻詩 (LIU, JANE)

學術會議(研討會)論文

J. W. S. Liu, E. T.H. Chu, F. T Lin and Z. L. Zhong, 2016, “Intelligent Indoor Emergency Evacuation Systems - Reference Architecture and Data Requirements”, paper presented at *Proceedings of Future Technologies Conference (FTC 2016), December 2016*, -: -, 2016-12.

Tzu-Liang Hsu and Jane W. S. Liu, 2016, “ABDiSE: Agent-Based Disaster Simulation Environment”, paper presented at *Proceedings of the 7th International Conference on Computer Modeling and Simulation (ICCMS 2016)*, -: -, 2016-01.

鄭湘筠 (CHENG, HSIANG-YUN)

學術會議(研討會)論文

Hsiang-Yun Cheng*, Jishen Zhao, Jack Sampson, Mary Jane Irwin, Aamer Jaleel, Yu Lu, Yuan Xie, 2016, “LAP: Loop-Block Aware Inclusion Properties for Energy-Efficient Asymmetric Last Level Caches”, 103-114 pages, paper presented at *ACM/IEEE International Symposium on Computer Architecture (ISCA)*, Seoul, South Korea: ACM/IEEE, 2016-06-18 ~ 2016-06-22.

Meng-Fan Chang*, Ching-Hao Chuang, Yen-Ning Chiang, Shyh-Shyuan Sheu, Chia-Chen Kuo, Hsiang-Yun Cheng, John Sampson, Mary Jane Irwin, 2016, “Designs of Emerging Memory Based Non-Volatile TCAM for Internet-of-Things (IoT) and Big-Data Processing: A 5T2R Universal Cell”, 1142-1145 pages, paper presented at *IEEE International Symposium on Circuits and Systems (ISCAS)*, Montreal, Canada: IEEE, 2016-05-22 ~ 2016-05-25.

技術報告

Hsiang-Yun Cheng*, Jishen Zhao, Jack Sampson, Mary Jane Irwin, Aamer Jaleel, Yu Lu, Yuan Xie, 2016, *Dswitch: Write-Aware Dynamic Inclusion Property Switching for Emerging Asymmetric Memory Technologies*, 1-10 pages.

他類論文

Hsiang-Yun Cheng, 2016, “Exploiting and Accommodating Asymmetries in Memory to Enable Efficient Multi-core Systems”, *Pennsylvania State University Ph.D Thesis*, 1-149.

王釗茹 (WANG, CHUAN-JU)

期刊論文

Liang-Chih Liu, Tian-Shyr Dai, and Chuan-Ju Wang, , 2016, “Evaluating Corporate Bonds and Analyzing Claim Holders’ Decisions with Complex Debt Structure”, *Journal of Banking and Finance*, 72: 151–174. (SSCI) (IF: 1.485; SSCI ranking: 24.6%,28.7%)

Ming-Feng Tsai, Chuan-Ju Wang, and Po-Chuan Chien, 2016, “Discovering Finance Keywords via Continuous Space Language Models”, *ACM Transactions on Management Information Systems*, 7(3), Article No. 7. (EI)

學術會議(研討會)論文

Yu-Wen Liu, Liang-Chih Liu, Chuan-Ju Wang, and Ming-Feng Tsai, 2016, “FIN10K: A Web-based Information System for Financial Report Analysis and Visualization”, paper presented at *The 25th ACM Conference on Information and Knowledge Management (CIKM)*, Indianapolis, USA: ACM, 2016-10-24 ~ 2016-10-28.

Chuan-Ju Wang, Tian-Shyr Dai, and Jr-Yan Wang, 2016, “Pricing Convertible Bonds under the First-

Passage Credit Risk Model”, paper presented at *The 2016 Annual Meeting of the Financial Management Association (FMA)*, Las Vegas, USA: FMA, 2016-10-19 ~ 2016-10-22.

Chih-Yu Chao, Yi-Fan Chu, Yi Ho, Chuan-Ju Wang, Ming-Feng Tsai, 2016, “Dish Discovery via Word Embeddings on Restaurant Reviews”, paper presented at *The 10th ACM Conference on Recommender Systems*, Boston, USA: ACM, 2016-09-15 ~ 2016-09-19.

王新民 (WANG, HSIN-MIN)

學術會議(研討會)論文

Jen-Cheng Hou, Syu-Siang Wang, Ying-Hui Lai, Jen-Chun Lin, Yu Tsao, Hsiu-Wen Chang, and Hsin-Min Wang, 2016, “Audio-Visual Speech Enhancement using Deep Neural Networks”, paper presented at *APSIPA Annual Summit and Conference (APSIPA ASC 2016)*, -: -, 2016-12.

Chin-Cheng Hsu, Hsin-Te Hwang, Yi-Chiao Wu, Yu Tsao and Hsin-Min Wang, 2016, “Voice Conversion from Non-parallel Corpora Using Variational Auto-encoder”, paper presented at *APSIPA Annual Summit and Conference (APSIPA ASC 2016)*, -: -, 2016-12.

Yi-Chiao Wu, Hsin-Te Hwang, Chin-Cheng Hsu, Yu Tsao, and Hsin-Min Wang, 2016, “Locally Linear Embedding for Exemplar-Based Spectral Conversion”, paper presented at *Interspeech2016*, -: -, 2016-09.

Hung-Shin Lee, Yu Tsao, Chi-Chun Lee, Hsin-Min Wang, Wei-Cheng Lin, Wei-Chen Chen, Shan-Wen Hsiao, and Shyh-Kang Jeng, 2016, “Minimization of Regression and Ranking Losses with Shallow Neural Networks on Automatic Sincerity Evaluation”, paper presented at *Interspeech2016*, -: -, 2016-09.