

資訊科學研究所

王大為 (WANG, DA-WEI)

Hsiao-Mei Tsao, Mei-Lien Pan, Ean-Wen Huang, Da-Wei Wang, Mar. 2016, "Experience from National Medical Informatics Policy: Using the Example of Epidemic Prevention and Control Project", *Taiwan Association for Medical Informatics*, 25, 1-12.

Zong-De Jian, Tsan-Sheng Hsu and Da-Wei Wang, Jul. 2016, "Searching Vaccination Strategy with Surrogate-assisted Evolutionary Computing", paper presented at *SIMULTECH 2016*, -: -, 2016-07.

王柏堯 (WANG, BOW-YAW)

Fei He, Shu Mao, Bow-Yaw Wang, Jul. 2016, "Learning-Based Assume-Guarantee Regression Verification", 9779, 310-328 pages, paper presented at *Computer Aided Verification (CAV 2016)*, -: -, 2016-07.

Fang Yu, Ching-Yuan Shueh, Chun-Han Lin, Yu-Fang Chen, Bow-Yaw Wang and Tefvik Bultan, Jul. 2016, "Optimal Sanitization Synthesis for Web Application Vulnerability Repair", , 189-200 pages, paper presented at *International Symposium on Software Testing and Analysis (ISSTA 2016)*, -: -, 2016-07.

Yu-Fang Chen, Chiao Hsieh, Ondrej Lengál, Tsung-Ju Lii, Ming-Hsien Tsai, Bow-Yaw Wang, Farn Wang, May. 2016, "PAC learning-based verification and model synthesis", paper presented at *International Conference on Software Engineering (ICSE 2016)*, -: -, 2016-05.

王新民 (WANG, HSIN-MIN)

Yu-Ren Chien, Hsin-Min Wang, and Shyh-Kang Jeng, Nov. 2016, "Alignment of Lyrics With Accompanied Singing Audio Based on Acoustic-Phonetic Vowel Likelihood Modeling", *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 24, 1998 - 2008.

Kuan-Yu Chen, Shih-Hung Liu, Berlin Chen, Hsin-Min Wang, and Hsin-Hsi Chen, Jun. 2016, "Exploring the Use of Unsupervised Query Modeling Techniques for Speech Recognition and Summarization", *Speech Communication*, 80, 49-59. (SCI) (IF: 1.038; SCI ranking: 75%,53.1%)

Kuan-Yu Chen, Shih-Hung Liu, Berlin Chen and Hsin-Min Wang, Dec. 2016, "A Novel Paragraph Embedding Method for Spoken Document Summarization", paper presented at *APSIPA Annual Summit and Conference (APSIPA ASC 2016)*, -: -, 2016-12.

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

Shih-Hung Liu, Kuan-Yu Chen, Yu-Lun Hsieh, Berlin Chen, Hsin-Min Wang, Hsu-Chun Yen and Wen-Lian Hsu, Dec. 2016, "Exploiting Graph Regularized Nonnegative Matrix Factorization for Extractive Speech Summarization", paper presented at *APSIPA Annual Summit and Conference (APSIPA ASC 2016)*, -: -, 2016-12.

Kuan-Yu Chen, Shih-Hung Liu, Berlin Chen and Hsin-Min Wang, Dec. 2016, "Learning to Distill: The Essence Vector Modeling Framework", paper presented at *International Conference on Computational Linguistics (COLING2016)*, -: -, 2016-12.

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

- Jen-Chun Lin, Wen-Li Wei, and Hsin-Min Wang, Oct. 2016, “Automatic Music Video Generation Based on Emotion-Oriented Pseudo Song Prediction and Matching”, paper presented at *ACM Multimedia Conference 2016*, -: -, 2016-10.
- Chin-Cheng Hsu, Hsin-Te Hwang, Yi-Chiao Wu, Yu Tsao, and Hsin-Min Wang, Oct. 2016, “Dictionary Update for NMF-based Voice Conversion Using an Encoder-Decoder Network”, paper presented at *International Symposium on Chinese Spoken Language Processing (ISCSLP2016)*, -: -, 2016-10.
- Yu-Lun Hsieh, Shih-Hung Liu, Kuan-Yu Chen, Hsin-Min Wang, Wen-Lian Hsu, and Berlin Chen, Oct. 2016, “Exploiting Sequence-to-Sequence Generation Framework for Automatic Abstractive Summarization”, paper presented at *The 28th ROCLING Conference on Computational Linguistics and Speech Processing (ROCLING2016)*, -: -, 2016-10.
- Kuan-Yu Chen, Shih-Hung Liu, Berlin Chen, Hsin-Min Wang, and Hsin-Hsi Chen, Oct. 2016, “Novel Word Embedding and Translation-based Language Modeling for Extractive Speech Summarization”, paper presented at *ACM Multimedia Conference 2016*, -: -, 2016-10.
- Shih-Hung Liu, Kuan-Yu Chen, Yu-Lun Hsieh, Berlin Chen, Hsin-Min Wang, Hsu-Chun Yen, and Wen-Lian Hsu, 2016年9月, 〈Exploring Word Mover’s Distance and Semantic-Aware Embedding Techniques for Extractive Broadcast News Summarization〉, 發表於 *Interspeech2016*, - : - , 2016-09。
- Yi-Chiao Wu, Hsin-Te Hwang, Chin-Cheng Hsu, Yu Tsao, and Hsin-Min Wang, Sept. 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, Sept. 2016, “Minimization of Regression and Ranking Losses with Shallow Neural Networks on Automatic Sincerity Evaluation”, paper presented at *Interspeech2016*, -: -, 2016-09.
- Jen-Chun Lin, Wen-Li Wei, and Hsin-Min Wang, Mar. 2016, “DEMV-Matchmaker: Emotional Temporal Course Representation and Deep Similarity Matching for Automatic Music Video Generation”, paper presented at *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2016)*, - : -, 2016-03.
- Kuan-Yu Chen, Shih-Hung Liu, Berlin Chen, and Hsin-Min Wang, Mar. 2016, “Improved Spoken Document Summarization with Coverage Modeling Techniques”, paper presented at *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2016)*, -: -, 2016-03.

王建民 (WANG, CHIEN-MIN)

- Hsiang-Huang Wu and Chien-Min Wang, to appear, “Generalization of Large-Scale Data Processing in one MapReduce job for Coarse-Grained Parallelism”, *International Journal of Parallel Programming*. (SCI) (IF: 0.68; SCI ranking: 71.4%)
- Joshua Ho and Chien-Min Wang, Nov. 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, May. 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.

張原豪 (CHANG, YUAN-HAO)

- Yuan-Hung Kuan, Yuan-Hao Chang, Tseng-Yi Chen, Po-Chun Huang, and Kam-Yiu Lam, Oct. 2016, "Space-Efficient Index Scheme for PCM-based Multiversion Databases in Cyber-Physical Systems", *ACM Transactions on Embedded Computing Systems (TECS)*, 16, 21:1-21:26.
- Ming-Chang Yang, Yuan-Hao Chang, Che-Wei Tsao, and Chung-Yu Liu, Oct. 2016, "Utilization-aware Self-tuning Design for TLC Flash Storage Devices", *IEEE Transactions on Very Large Scale Integration Systems (TVLSI)*, 24, 3132-3144.
- Ming-Chang Yang, Yuan-Hao Chang, Yuan-Hung Kuan, and Che-Wei Tsao, Sept. 2016, "Graceful Space Degradation: An Uneven Space Management for Flash Storage Devices", *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)*, 35, 1425-1434.
- Ming-Chang Yang, Yuan-Hao Chang, and Tei-Wei Kuo, Sept. 2016, "Virtual Flash Chips: Reinforcing the Hardware Abstraction Layer to Improve Data Recoverability of Flash Devices", *IEEE Transactions on Computers (TC)*, 65, 2872-2883.
- Sheng-Wei Cheng, Yuan-Hao Chang, Tseng-Yi Chen, Yu-Fen Chang, Hsin-Wen Wei, and Wei-Kuan Shih, Jul. 2016, "Efficient Warranty-Aware Wear-Leveling for Embedded Systems with PCM Main Memory", *IEEE Transactions on Very Large Scale Integration Systems (TVLSI)*, 24, 2535-2547.
- Ming-Chang Yang, Yuan-Hao Chang, and Che-Wei Tsao, Jun. 2016, "Byte-addressable Update Scheme to Minimize the Energy Consumption of PCM-based Storage Systems", *ACM Transactions on Embedded Computing Systems (TECS)*, 15, 55:1-55:20.
- Yu-Ming Chang, Pi-Cheng Hsiu, Yuan-Hao Chang, Chi-Hao Chen, Tei-Wei Kuo, and Cheng-Yuan Michael Wang, Jun. 2016, "Improving PCM Endurance with a Constant-cost Wear Leveling Design", *ACM Transactions on Design Automation of Electronic Systems (TODAES)*, 22, 9:1-9:27.
- Tseng-Yi Chen, Yuan-Hao Chang*, Ming-Chang Yang, Yun-Jhu Chen, Hsin-Wen Wei, and Wei-Kuan Shih, Jun. 2016, "Multi-grained Block Management to Enhance the Space Utilization of File Systems on PCM Storages", *IEEE Transactions on Computers (TC)*, 65, 1831-1845.
- Yu-Ming Chang, Yuan-Hao Chang*, Tei-Wei Kuo, Yung-Chun Li, and Hsiang-Pang Li, May. 2016, "Disturbance Relaxation for 3D Flash Memory", *IEEE Transactions on Computers (TC)*, 65, 1467-1483.
- Ming-Chang Yang, Yuan-Hao Chang, Tei-Wei Kuo, and Fu-Hsin Chen, May. 2016, "Reducing Data Migration Overheads of Flash Wear Leveling in a Progressive Way", *IEEE Transactions on Very Large Scale Integration Systems (TVLSI)*, 24, 1808-1820.
- Ming-Chang Yang, Yuan-Hao Chang, Tei-Wei Kuo, and Po-Chun Huang, Feb. 2016, "Capacity-independent Address Mapping for Flash Storage Devices with Explosively Growing Capacity", *IEEE Transactions on Computers (TC)*, 65, 448-465.
- Chi-Sheng Shih, Pi-Cheng Hsiu, Yuan-Hao Chang, Tei-Wei Kuo, Nov. 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.
- Hung-Sheng Chang, Yuan-Hao Chang, Tei-Wei Kuo, Yu-Ming Chang, and Hsiang-Pang Li, Oct. 2016, "A Disturbance-aware Sub-Block Design to Improve Reliability of 3D MLC Flash Memory", paper presented at *ACM/IEEE International Conference on Hardware/Software Codesign and System Synthesis (CODES ISSS)*, -: -, 2016-10.
- Yu-Ming Chang, Yuan-Hao Chang, Hsiu-Chang Chen, and Tei-Wei Kuo, Oct. 2016, "Enabling Hybrid PCM

- Memory System with Inherent Memory Management”, paper presented at *ACM Research in Adaptive and Convergent Systems (RACS)*, -: -, 2016-10.
- Hsin-Yu Chang, Chien-Chung Ho, Yuan-Hao Chang, Yu-Ming Chang, and Tei-Wei Kuo, Oct. 2016, “How to Enable Software Isolation and Boost System Performance with Sub-block Erase over 3D Flash Memory”, paper presented at *ACM/IEEE International Conference on Hardware/Software Codesign and System Synthesis (CODES ISSS)*, -: -, 2016-10.
- Yu-Ming Chang, Yung-Chun Li, Ping-Hsien Lin, Hsiang-Pang Li, and Yuan-Hao Chang, Oct. 2016, “Realizing Erase-free SLC Flash Memory with Rewritable Programming Design”, paper presented at *ACM/IEEE International Conference on Hardware/Software Codesign and System Synthesis (CODES ISSS)*, -: -, 2016-10.
- Hung-Sheng Chang, Yuan-Hao Chang, Yuan-Hung Kuan, Xiang-Zhi Huang, Tei-Wei Kuo and Hsiang-Pang Li, Aug. 2016, “Pattern-Aware Write-Back Strategy to Minimize Energy Consumption of PCM-based Storage Systems”, paper presented at *IEEE Nonvolatile Memory Systems and Applications Symposium (NVMSA)*, -: -, 2016-08.
- Yong-Ching Lin, Shuo-Han Chen, Tseng-Yi Chen, Yuan-Hao Chang, Ming-Chang Yang, Hsin-Wen Wei, and Wei-Kuan Shih, Jun. 2016, “Management Designs for Emerging Shingled Magnetic Recording Drives”, paper presented at *Symposium on Digital Life Technologies (DLT)*, -: -, 2016-06.
- Shih-Chun Chou, Yuan-Hao Chang, Yuan-Hung Kuan, Po-Chun Huang, and Che-Wei Tsao, Jan. 2016, “Multi-version Checkpointing for Flash File Systems”, paper presented at *ACM/IEEE Asia and South Pacific Design Automation Conference (ASP-DAC)*, -: -, 2016-01.
- Wei-Lin Wang, Yuan-Hao Chang, Po-Chun Huang, Chia-Heng Tu, Hsin-Wen Wei, and Wei-Kuan Shih, Jan. 2016, “Relay-based Key Management to Support Secure Deletion for Resource-Constrained Flash-Memory Storage Devices”, paper presented at *ACM/IEEE Asia and South Pacific Design Automation Conference (ASP-DAC)*, -: -, 2016-01.

陳伶志 (CHEN, LING-JYH)

- Wen-Yuan, Wen-Chih Peng, Ling-Jyh Chen, Kai Zheng, and Xiaofang Zhou, Nov. 2016, “Exploiting Viral Marketing for Location Promotion in Location-based Social Networks”, *ACM Transactions on Knowledge Discovery from Data*, 11, 25. (SCI) (IF: 1; SCI ranking: 60.4%,50%)
- Yao-Hua Ho, Chun-Han Lin, and Ling-Jyh Chen, Oct. 2016, “On-Demand Misbehavior Detection (OMD) for VANET”, *International Journal of Distributed Sensor Networks*, 12, Open Access. (SCI) (IF: 0.906; SCI ranking: 67.4%,63.4%)
- Yu-Chang Ho, Hao-Min Liu, Hui-Hsin Hsu, Chun-Han Lin, Yao-Hua Ho, and Ling-Jyh Chen, Nov. 2016, “Automatic Opinion Leader Recognition in Group Discussions”, paper presented at *International Conference on Technologies and Applications of Artificial Intelligence (TAAI'16)*, Hsinchu, Taiwan: -, 2016-11.
- Yao-Hua Ho, Shih-Jie Sun, Ling-Jyh Chen, and Chun-Hua Lin, Jul. 2016, “Emergency Application for Vehicle-to-Vehicle Communication Using Named Data Networking (eVNDN)”, paper presented at *IEEE International Conference on Ubiquitous and Future Networks (ICUFN'16)*, Vienna, Austria: -, 2016-07.
- Roberto Carvalho, Hung-Yu Lee, Sachit Mahajan, and Ling-Jyh Chen, Jun. 2016, “A SDR-Based Indoor Localization System for Mobile Devices”, paper presented at *ACM/USENIX International Conference on*

Mobile Systems, Applications, and Services (ACM/USENIX MobiSys'16), -: -, 2016-06.

Ling-Jyh Chen, Wuulong Hsu, MingWei Cheng, and Hu-Cheng Lee, Jun. 2016, "LASS: A Location-Aware Sensing System for Participatory PM2.5 Monitoring", paper presented at *ACM/USENIX International Conference on Mobile Systems, Applications, and Services (ACM/USENIX MobiSys'16)*, Singapore: -, 2016-06.

Wei-Tung Chen and Ling-Jyh Chen, Jun. 2016, "Magnetic Positioning Sphere: A Single-Source 3D Positioning System using Rotating Magnetic Fields", paper presented at *ACM/USENIX International Conference on Mobile Systems, Applications, and Services (ACM/USENIX MobiSys'16)*, Singapore: -, 2016-06.

Roberto Carvalho, Shan-Ho Yang, Yao-Hua Ho, and Ling-Jyh Chen, Jan. 2016, "Indoor Localization using FM and DVB-T Signals", paper presented at *IEEE International Conference on Consumer Communications & Networking Conference (CCNC'16)*, Las Vegas, Nevada, USA: -, 2016-01.

陳孟彰 (CHEN, MENG-CHANG)

Li-Ming Chen, Shun-Wen Hsiao, Meng Chang Chen, WanJiun Liao, Dec. 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%)

Tzu Chi Yang, Sherry Y. Chen, Meng Chang Chen, Apr. 2016, "An Investigation of a Two-Tier Test Strategy in a University Calculus Course: Causes vs. Consequences", *IEEE Transactions on Learning Technologies*, 9, 146-156. (SCI, SSCI) (IF: 1.129; SCI ranking: 68.3%; SSCI ranking: 33.8%)

Yi-Ting Huang, Tzu-Chi Yang, Meng Chang Chen, Chien-Ming Chen, Yeali Sun, Jul. 2016, "Design of an Online Multimedia Learning System for Improving Students' Perceptions in English Language Learning", paper presented at *16th IEEE International Conference on Advanced Learning Technologies (ICALT 2016)*, -: -, 2016-07.

Shun-Wen Hsiao, Yeali. S. Sun, Meng Chang Chen, May. 2016, "Behavior Grouping of Android Malware Family", paper presented at *IEEE International Conference on Communications (ICC)*, -: -, 2016-05.

陳銘憲 (CHEN, MING-SYAN)

C.-Y. Shen, D.-N. Yang, W.-C. Lee, and M.-S. Chen, Jun. 2016, "Spatial-Proximity Optimization for Rapid Task Group Deployment", *ACM Trans. on Knowledge Discovery from Data*, 10, 47:1-36.

H.-H. Shuai, D.-N. Yang, P. S. Yu, and M.-S. Chen, Jan. 2016, "A Comprehensive Study on Willingness Maximization for Social Activity Planning with Quality Guarantee", *IEEE Trans. on Knowledge and Data Engineering*, 28, 2-16.

Chi-Jen Wu, Chin-Fu Ku, Jan-Ming Ho, and Ming-Syan Chen, Jan. 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%)

C.-Y. Shen, D.-N. Yang, L.-H. Huang, W.-C. Lee, and M.-S. Chen, Jan. 2016, "Socio-Spatial Group Queries for Impromptu Activity Planning", *IEEE Trans. on Knowledge and Data Engineering*, 28, 196-210.

H.-J. Hung, H.-H. Shuai, D.-N. Yang, L.-H. Huang, W.-C. Lee, J. Pei, and M.-S. Chen, Aug. 2016, "When Social Influence Meets Item Inference", paper presented at *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (ACM KDD)*, -: -, 2016-08.

H.-H. Shuai, C.-Y. Shen, D.-N. Yang, Y.-F. Lan, W.-C. Lee, P. S. Yu, and M.-S. Chen, Apr. 2016, "Mining

Online Social Data for Detecting Social Network Mental Disorders”, paper presented at *International World Wide Web Conference (WWW)*, -: -, 2016-04.

陳祝嵩 (CHEN, CHU-SONG)

Kung-Hung Lu, Kuang-Yu Chang, and Chu-Song Chen, Dec. 2016, “Image Aesthetic Assessment via Deep Semantic Aggregation”, paper presented at *IEEE Global Conference on Signal and Information Processing, Symposium on Compressed Sensing, Deep Learning, GlobalSIP 2016*, -: -, 2016-12.

Huei-Fang Yang, Kevin Lin, and Chu-Song Chen, Oct. 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.

Chih-Hung Lai, Chu-Song Chen, Shih-Yu Chen and Keng-Hao Liu, Aug. 2016, “Sequential Band Selection Method Based on Group Orthogonal Matching Pursuit”, paper presented at *8th Workshop on Hyperspectral Image and Signal Processing : Evolution in Remote Sensing, WHISPERS 2016*, -: -, 2016-08.

Kevin Lin, Jiwen Lu, Chu-Song Chen, and Jie Zhou, Jun. 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, Jun. 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, Mar. 2016, “Style Retrieval from Natural Images”, paper presented at *IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP 2016*, -: -, 2016-03.

陳郁方 (CHEN, YU-FANG)

Fang Yu, Ching-Yuan Shueh, Chun-Han Lin, Yu-Fang Chen, Bow-Yaw Wang and Tevfik Bultan, Jul. 2016, “Optimal Sanitization Synthesis for Web Application Vulnerability Repair”, , 189-200 pages, paper presented at *International Symposium on Software Testing and Analysis (ISSTA 2016)*, -: -, 2016-07.

Yu-Fang Chen, Chiao Hsieh, Ondrej Lengál, Tsung-Ju Lii, Ming-Hsien Tsai, Bow-Yaw Wang, Farn Wang, May. 2016, “PAC learning-based verification and model synthesis”, paper presented at *International Conference on Software Engineering (ICSE 2016)*, -: -, 2016-05.

Yu-Fang Chen, Lei Song, Zhilin Wu, 2016, “The Commutativity Problem of the MapReduce Framework: A Transducer-based Approach”, paper presented at *Computer Aided Verification (CAV 2016)*, -: -, 2016.

陳昇瑋 (CHEN, SHENG-WEI)

Chih-Fan Hsu, Ching-Ling Fan, Tsung-Han Tsai, Chun-Ying Huang, Cheng-Hsin Hsu, and Kuan-Ta Chen, Dec. 2016, “Toward an Adaptive Screenshot Platform: Measurement and Optimization”, *ACM Transactions on Multimedia Computing, Communications and Applications*, 12, 1--23.

Wei Cai, Ryan Shea, Chun-Ying Huang, Kuan-Ta Chen, Jiangchuan Liu, Aug. 2016, “A Survey on Cloud Gaming: Future of Computer Games”, *IEEE Access*, 4, 7605--7620. (SCI) (IF: 1.27; SCI ranking: 47.2%,45.1%,51%)

- Wei Cai, Ryan Shea, Chun-Ying Huang, Kuan-Ta Chen, Jiangchuan Liu, Victor C. M. Leung, and Cheng-Hsin Hsu, Apr. 2016, "The Future of Cloud Gaming", *Proceedings of IEEE*, 104, 687-691.
- Ya-Xuan Hung, Pei-Chen Huang, Kuan-Ta Chen, and Woeichyn Chu, Mar. 2016, "What Do Stroke Patients Look For in Game-Based Rehabilitation? A Survey Study", *Medicine*, 95, e3032. (SCI) (IF: 2.133; SCI ranking: 25.8%)
- Jia-Ching Ying, Ji Zhang, Che-Wei Huang, Kuan-Ta Chen and Vincent S. Tseng, Dec. 2016, "PFraudDetector: A Parallelized Graph Mining Approach for Efficient Fraudulent Phone Call Detection", paper presented at *Proceedings of IEEE ICPADS 2016*, -: -, 2016-12.
- Po-Heng Chen, Yi-Pei Tu, and Kuan-Ta Chen, Oct. 2016, "On The "Tiny yet Real Happiness" Phenomenon in The Mobile Games Market", paper presented at *Proceedings of IEEE DSAA 2016*, -: -, 2016-10.
- Chun-Ming Chang, Cheng-Hsin Hsu, Chih-Fan Hsu, and Kuan-Ta Chen, Oct. 2016, "Performance Measurements of Virtual Reality Systems: Quantifying the Timing and Positioning Accuracy", paper presented at *Proceedings of ACM Multimedia 2016*, -: -, 2016-10.
- Chun-Ying Huang, Ching-Ling Fan, Chih-Fan Hsu, Hsin-Yu Chang, Tsung-Han Tsai, Kuan-Ta Chen, and Cheng-Hsin Hsu, Oct. 2016, "Smart Beholder: An Extensible Smart Lenses Platform", paper presented at *Proceedings of ACM Multimedia 2016 (Open Source Software Competition Track)*, -: -, 2016-10.
- Pin Chun Wang, Ching-Ling Fan, Chun-Ying Huang, Kuan-Ta Chen, and Cheng-Hsin Hsu, Oct. 2016, "Towards Ultra-Low-Bitrate Video Conferencing Using Facial Landmarks", paper presented at *Proceedings of ACM Multimedia 2016*, -: -, 2016-10.
- Tobias Hosfeld, Lea Skorin-Kapov, Poul E. Heegaard, Martin Varela, and Kuan-Ta Chen, Aug. 2016, "On Additive and Multiplicative QoS-QoE Models for Multiple QoS Parameters", paper presented at *Proceedings of PQS 2016*, -: -, 2016-08.
- Marlies Olensky, Tsung-Han Tsai, and Kuan-Ta Chen, Apr. 2016, "H-index Sequences across Fields: A Comparative Analysis", paper presented at *Proceedings of ACM BigScholar 2016*, -: -, 2016-04.

陳文村 (CHEN, WEN-TSUEN)

- Chih-Yu Wang, Hung-Yu Wei, and W.T. Chen, Dec. 2016, "Resource Block Allocation with Carrier-Aggregation: A Strategy-Proof Auction Design", *IEEE Transactions on Mobile Computing*, 15, 3142 - 3155. (SCI) (IF: 2.456; SCI ranking: 13.4%,12.5%)
- Chih-Hang Wang, Po-Shun Huang, De-Nian Yang, and W. T. Chen, Dec. 2016, "Cross-Layer Design of Influence Maximization in Mobile Social Networks", paper presented at *Proceedings of Global Communications Conference (IEEE GLOBECOM 2016)*, Washington, DC, USA: -, 2016-12.
- Wen-Chan Shih, Pai H. Chou, and W. T. Chen, Nov. 2016, "A Batteryless Beacon Based on Dual ISM-Band RF Harvesting with Solar-Biasing Current", paper presented at *Proceedings of the 4th International Workshop on Energy Neutral Sensing Systems (ENSsys 2016, in conjunction with ACM SenSys 2016)*, Stanford, California, USA: -, 2016-11.
- Chi-Han Lin, Yi-Ting Chen, Jyun-Jie Chen, Wen-Chan Shih, and W. T. Chen, Sept. 2016, "pSafety: A Collision Prevention System for Pedestrians Using Smartphone", paper presented at *Proceedings of VTC 2016-Fall - IEEE 84th Vehicular Technology Conference*, Montréal, Canada: -, 2016-09.
- Yi-Hui Lin, Shan-Hsiang Shen, Ming-Hong Yang, De-Nian Yang, W. T. Chen, May. 2016, "Privacy-Preserving Deep Packet Filtering over Encrypted Traffic in Software-Defined Networks", paper presented at

Proceedings of IEEE International Conference on Communications (IEEE ICC 2016), Kuala Lumpur, Malaysia: -, 2016-05.

Yung-Shun Wang, Y.-W. Peter Hong, and W. T. Chen, May. 2016, "User Pair Selection for Distributed-Input Distributed-Output Wireless Systems", paper presented at *Proceedings of IEEE International Conference on Communications (IEEE ICC 2016)*, Kuala Lumpur, Malaysia: -, 2016-05.

L.-H. Huang, H.-C. Hsu, S.-H. Shen, D.-N. Yang, and W. T. Chen, Apr. 2016, "Multicast Traffic Engineering for Software-Defined Networks", paper presented at *IEEE Conference on Computer Communications (IEEE INFOCOM)*, -: -, 2016-04.

Liang-Hao Huang, Hsiang-Chun Hsu, Shan-Hsiang Shen, De-Nian Yang, and W. T. Chen, Apr. 2016, "Multicast Traffic Engineering for Software-Defined Networks", paper presented at *Proceedings of IEEE Conference on Computer Communications (IEEE INFOCOM 2016)*, San Francisco, California, USA: -, 2016-04.

莊庭瑞 (CHUANG, TYNG-RUEY)

Tyng-Ruey Chuang, Te-En Lin, Yi-Hong Chang, Chih-Yun Chen, Yu-Kai Chen, Ping-Keng Hsieh, and Guan-Shuo Mai, Sept. 2016, "Communal Data Workflow in TaiRON (Taiwan Roadkill Observation Network)", paper presented at *SciDataCon, CODATA-WDS*: -, 2016-09.

鐘楷閔 (CHUNG, KAI-MIN)

Kai-Min Chung, Rafael Pass, Karn Seth, May. 2016, "Non-Black-Box Simulation from One-Way Functions And Applications to Resettable Security", *SIAM Journal on Computing*, 45, 415-458. (SCI) (IF: 0.841; SCI ranking: 47.2%,60%)

Prabhanjan Ananth, Yu-Chi Chen, Kai-Min Chung, Huijia Lin and Wei-Kai Lin, Nov. 2016, "Delegating RAM Computations with Adaptive Soundness and Privacy", paper presented at *Fourteenth IACR Theory of Cryptography Conference - TCC 2016-B*, -: -, 2016-11.

Elette Boyle and Kai-Min Chung and Rafael Pass, Jan. 2016, "Oblivious Parallel RAM and Applications", paper presented at *The 13th IACR Theory of Cryptography Conference (TCC2016)*, -: -, 2016-01.

何建明 (HO, JAN-MING)

Chi-Jen Wu, Chin-Fu Ku, Jan-Ming Ho, and Ming-Syan Chen, Jan. 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%)

Hsin-Tsung Peng, William Hsu, Jan-Ming Ho and Min-Ruey Yu, Dec. 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, Oct. 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, Mar. 2016, "Scheduling of Optimal DASH Streaming", paper presented at

International Conference on Internet of Things and Cloud Computing, Cambridge, United Kingdom: -, 2016-03.

修丕承 (HSIU, PI-CHENG)

Chi-Sheng Shih, Pi-Cheng Hsiu, Yuan-Hao Chang, Tei-Wei Kuo, Nov. 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.

許聞廉 (HSU, WEN-LIAN)

Yung-Chun Chang, Chun-Han Chu, Chien Chin Chen, and Wen-Lian Hsu, Sept. 2016, "Linguistic Template Extraction for Recognizing Reader-Emotion", *International Journal of Computational Linguistics and Chinese Language Processing*, 21, 29-50.

Yung-Chun Chang, Chun-Han Chu, Yu-Chen Su, Chien Chin Chen, and Wen-Lian Hsu, Aug. 2016, "PIPE: A BioC Module for Protein-protein Interaction Passage Extraction", *Database (Oxford)*, 2016, baw101.

Yung-Chun Chang, Chien Chin Chen, and Wen-Lian Hsu, Aug. 2016, "SPIRIT: A Tree Kernel-based Method for Topic Person Interaction Detection", *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 28, 2494-2507.

T. Mamie Lih, Wai-Kok Choong, Chen-Chun Chen, Cheng-Wei Cheng, Hsin-Nan Lin, Ching-Tai Chen, Hui-Yin Chang, Wen-Lian Hsu and Ting-Yi Sung, Jul. 2016, "MAGIC-web: a platform for untargeted and targeted N-linked glycoprotein identification", *Nucleic Acids Research*, 44, W575-580. (SCI) (IF: 9.202; SCI ranking: 6.2%)

Hui-Yin Chang, Ching-Tai Chen, T. Mamie Lih, Ke-Shiuan Lynn, Chiun-Gung Juo, Wen-Lian Hsu, Ting-Yi Sung, Jan. 2016, "iMet-Q: a user-friendly tool for metabolomics quantitation using dynamic peak-width determination", *PLoS ONE*, 11, e0146112. (SCI) (IF: 3.057; SCI ranking: 17.5%)

Shih-Hung Liu, Kuan-Yu Chen, Yu-Lun Hsieh, Berlin Chen, Hsin-Min Wang, Hsu-Chun Yen and Wen-Lian Hsu, Dec. 2016, "Exploiting Graph Regularized Nonnegative Matrix Factorization for Extractive Speech Summarization", paper presented at *APSIPA Annual Summit and Conference (APSIPA ASC 2016)*, -: -, 2016-12.

Yu-Lun Hsieh, Yung-Chun Chang, Chun-Han Chu, and Wen-Lian Hsu, Nov. 2016, "How do I look? Publicity Mining from Distributed Keyword Representation of Socially Infused News Articles", , 74-83 pages, paper presented at *The 4th International Workshop on Natural Language Processing for Social Media (SocialNLP) @ EMNLP 2016*, -: -, 2016-11.

Chun-Han Chu, Chen-Ann Wang, Yung-Chun Chang, Ying-Wei Wu, Yu-Lun Hsieh, and Wen-Lian Hsu, Nov. 2016, "Sentiment Analysis on Chinese Movie Review with Distributed Keyword Vector Representation", paper presented at *2016 Conference on Technologies and Applications of Artificial Intelligence*, -: -, 2016-11.

Yu-Lun Hsieh, Shih-Hung Liu, Kuan-Yu Chen, Hsin-Min Wang, Wen-Lian Hsu, and Berlin Chen, Oct. 2016, "Exploiting Sequence-to-Sequence Generation Framework for Automatic Abstractive Summarization", paper presented at *The 28th ROCLING Conference on Computational Linguistics and Speech Processing (ROCLING2016)*, -: -, 2016-10.

Shih-Hung Liu, Kuan-Yu Chen, Yu-Lun Hsieh, Berlin Chen, Hsin-Min Wang, Hsu-Chun Yen, and Wen-Lian

Hsu, 2016年9月, 〈Exploring Word Mover's Distance and Semantic-Aware Embedding Techniques for Extractive Broadcast News Summarization〉, 發表於 Interspeech2016, -: -, 2016-09。

Hui-Yin Chang, Ching-Tai Chen, Chiun-Gung Juo, Wen-Lian Hsu, Ting-Yi Sung, Sept. 2016, "iTop-Q: an intelligent top-down proteomics quantification tool using the DYAMOND algorithm for charge state deconvolution", paper presented at *15th HUPO World Congress*, -: -, 2016-09.

Yung-Chun Chang, Chin-Shun Chou, Yang Zhang, Xi Wang, and Wen-Lian Hsu, Jun. 2016, "Sentiment Analysis of Chinese Microblog Message Using Neural Network-based Vector Representation for Measuring Regional Prejudice", paper presented at *The 20th Pacific Asia Conference on Information Systems (PACIS 2016)*, -: -, 2016-06.

Ting Hao Yang, Yu-Lun Hsieh, You-Shan Chung, Dapi Shih, Shih-Hung Liu, Yung-Chun Chang and Wen-Lian Hsu, Jan. 2016, "Principle-based Approach for Semi-automatic Construction of a Restaurant Question Answering System from Limited Datasets", paper presented at *The 5th IEEE International Workshop on Empirical Methods for Recognizing Inference in Text*, -: -, 2016-01.

徐讚昇 (HSU, TSAN-SHENG)

Hsin-Wen Wei, Tseng-Yi Chen and Tsan-sheng Hsu, May. 2016, "BASE: An assistant tool to precisely simulate energy consumption and reliability of energy-efficient storage systems", *Software: Practice and Experience*, 46, 581--599.

Zong-De Jian, Tsan-Sheng Hsu and Da-Wei Wang, Jul. 2016, "Searching Vaccination Strategy with Surrogate-assisted Evolutionary Computing", paper presented at *SIMULTECH 2016*, -: -, 2016-07.

ask others Shuo-Han Chen, Tseng-Yi Chen, Yu-Chun Cheng, Hsin-Wen Wei, Tsan-sheng Hsu and Wei-Kuan Shih, Feb. 2016, "Developing a user-friendly sensor network simulator to imitate wireless charging vehicle behaviors", paper presented at *Proceedings of 2016 International Conference on Computing, Networking and Communications (ICNC)*, -: -, 2016-02.

黃文良 (HWANG, WEN-LIANG)

Wen-Liang Hwang, Keng-Shih Lu, and Jinn Ho, to appear, "Constrained Null Space Component Analysis for Semi-Blind Source Separation Problem", *IEEE Transactions on Neural Networks and Learning Systems*. (SCI) (IF: 4.854; SCI ranking: 5.4%,2.9%,3.9%,2%)

Chia-Chen Lee and Wen-Liang Hwang, Sept. 2016, "Sparse Representation of a Blur Kernel for Out-of-focus Blind Image Restoration", paper presented at *IEEE ICIP 2016*, -: -, 2016-09.

黃顯貴 (HWANG, HSIEN-KUEI)

Olivier Bodini¹, Matthieu Dien, Xavier Fontaine, Antoine Genitrini, Hsien-Kuei Hwang, Apr. 2016, "Increasing Diamonds", paper presented at *12th Latin American Theoretical Informatics Symposium (LATIN 2016)*, Ensenada, Mexico: Centro de Investigación Científica y de Educación Superior de Ensenada, 2016-04-11 ~ 2016-04-16.

古倫維 (KU, LUN-WEI)

Wei-Fan Chen, Mei-Hua Chen, Ming-Lung Chen, and Lun-Wei Ku, May. 2016, "A Computer-Assistance Learning System for Emotional Wording", *IEEE Transactions on Knowledge and Data Engineering*, 28,

1093-1104. (SCI) (IF: 2.476; SCI ranking: 11.8%,16.3%,21.5%)

Chieh-Yang Huang, Nicole Peinelt and Lun-Wei Ku, Dec. 2016, “Automatically Suggesting Example Sentences of Near-Synonyms for Language Learners”, paper presented at *the 26th International Conference on Computational Linguistics (COLING 2016)*, -: -, 2016-12.

Wei-Chug Wang, Hung-Chen Chen, Lun-Wei-Ku, Zhi-Kai Ji, Hui-I Hsiao and Yu-Shian Chiu, Dec. 2016, “Whose Nickname is This? Recognizing Politicians from Their Aliases”, paper presented at *the 2nd Workshop on Noisy User-generated Text (W-NUT 2016)*, -: -, 2016-12.

Chieh-Yang Huang and Lun-Wei Ku, Aug. 2016, “GiveMeExample: Learning Confusing Words by Example Sentences”, paper presented at *International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2016)*, -: -, 2016-08.

Wei-Chung Wang and Lun-Wei Ku, Aug. 2016, “Identifying Chinese Lexical Inference Using Probabilistic Soft Logic”, paper presented at *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2016), Multidisciplinary Track*, -: -, 2016-08.

Shih-Ming Wang and Lun-Wei Ku, May. 2016, “ANTUSD: A Large Chinese Sentiment Dictionary”, , 2697-2702 pages, paper presented at *The 10th Language Resources and Evaluation Conference (LREC2016)*, -: -, 2016-05.

Shih-Ming Wang, Chun-Hui Li, Yu-Chun Lo, Ting-Hao Kenneth Huang and Lun-Wei Ku, 2016, “Sensing Emotions in Text Messages: An Application and Deployment Study of EmotionPush”, paper presented at *the 26th International Conference on Computational Linguistics (COLING 2016)*, -: -, 2016.

Wei-Fan Chen and Lun-Wei Ku, 2016, “UTCNN: a Deep Learning Model of Stance Classification on Social Media Text”, paper presented at *the 26th International Conference on Computational Linguistics (COLING 2016)*, -: -, 2016.

Wei-Fan Chen, Fang-Yu Lin and Lun-Wei Ku, 2016, “WordForce: Visualizing Controversial Words in Debates”, paper presented at *the 26th International Conference on Computational Linguistics (COLING 2016)*, -: -, 2016.

李德財 (LEE, DER-TSAI)

Yu-Hsuan Su, Ching-Chi Lin, D. T. Lee, Mar. 2016, “Broadcasting in Weighted Trees under the Postal Model”, *Theoretical Comput. Sci.*, 621, 73-81.

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

Mong-Jen Kao, Hai-Lun Tu, and D.T. Lee, Dec. 2016, “O(f) Bi-approximation for Capacitated Covering with Hard Capacities”, 64, 40:1 - 40:12 pages, paper presented at *Proceedings, 27th International Symposium on Algorithms and Computation, Dec. 12-14, 2016, Sydney, Australia*, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik: -, 2016-12.

Hung-I Yu, Tien-Ching Lin, and D. T. Lee, Dec. 2016, “The (1|1)-Centroid Problem on the Plane Concerning Distance Constraints”, 64, 64:1 - 64:12 pages, paper presented at *Proceedings, 27th International Symposium on Algorithms and Computation, Dec. 12-14, 2016, Sydney, Australia*, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik: -, 2016-12.

廖弘源 (LIAO, HONG-YUAN MARK)

P. C. Wen, W. C. Cheng, Y. S. Wang, H. K. Khu, Nick C. Tang, and H. Y. Mark Liao, May. 2016, "Court Reconstruction for Camera Calibration in Broadcast Basketball Videos", *IEEE Transactions on Visualization and Computer Graphics*, 22, 1517-1526. (SCI) (IF: 1.4; SCI ranking: 23.6%)

T.Y. Tsai, Y. Y. Lin, H.Y. Mark Liao, and S. K. Jeng, Mar. 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.

廖純中 (LIAU, CHURN-JUNG)

T.F. Fan and C.J. Liao:, Nov. 2016, "Reasoning about justified belief based on the fusion of evidence.", , 240-255 pages, paper presented at *The 15th European Conference on Logics in Artificial Intelligence (JELIA 2016)*, Larnaca, Cyprus: -, 2016-11.

T.F. Fan and C.J. Liao, Aug. 2016, "Logics in granular computing", , 951-954 pages, paper presented at *Joint 8th International Conference on Soft Computing and Intelligent Systems and 17th International Symposium on Advanced Intelligent Systems*, -: -, 2016-08.

T.F. Fan and C.J. Liao, Aug. 2016, "Reasoning about belief and evidence with extended justification logic", , 1600-1601 pages, paper presented at *The 22nd European Conference on Artificial Intelligence (ECAI)*, -: -, 2016-08.

M.F. Tsai, C.Y. Lu, C.J. Liao, and T.F. Fan, Aug. 2016, "Social network clustering by using genetic algorithm: A case study", , 294-304 pages, paper presented at *29th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE)*, -: -, 2016-08.

T.F. Fan and C.J. Liao, Jul. 2016, "Rough set-based concept mining from social networks", , 663-670 pages, paper presented at *The annual IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, IEEE Press: -, 2016-07.

林彥宇 (LIN, YEN-YU)

Tsung-Yu Tsai, Yen-Yu Lin, Hong-Yuan Mark Liao, and Shyh-Kang Jeng, Mar. 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.

林仲彥 (LIN, CHUNG-YEN)

Sheng-Yao Su, Shu-Hwa Chen, I-Hsuan Lu, Yih-Shien Chiang, Yu-Bin Wang, Pao-Yang Chen, Chung-Yen Lin*, Dec. 2016, "TEA: The Epigenome platform for Arabidopsis methylome study", *BMC Genomics*, 17(S13), 1027. (SCI) (IF: 3.867; SCI ranking: 25.9%,19.9%)

Jen-Chieh Lee, Sheng-Yao Su, Chun A, Changou, Rong-Sen Yang, Keh-Sung Tsai, Michael T. Collins, Eric S. Orwoll, Chung-Yen Lin, Shu-Hwa Chen, Shyang-Rong Shih, Chen-Han Lee, Yoshinao Oda, Steven D. Billings, Chien-Feng Li, G. Petur Nielsen, Eiichi Konishi, Fredrik Petersson, Thomas O. Carpenter, Hsuan-Ying Huang, and Andrew L. Folpe, Nov. 2016, "Characterization of FN1-FGFR1 and Novel FN1-FGF1 Fusion Genes in a Large Series of Phosphaturic Mesenchymal Tumors", *Modern Pathology*, 29, 1335-1346. (SCI) (IF: 5.485; SCI ranking: 6.3%)

Anderson B. Mayfield, Yu-Bin Wang, Chii-Shiang Chen, Shu-Hwa Chen, and Chung-Yen Lin*, Nov. 2016,

“Dual-compartmental transcriptomic proteomic analysis of a marine endosymbiosis exposed to environmental change”, *Molecular Ecology*, 25, 5944-5958. (SCI) (IF: 5.947; SCI ranking: 12.1%,7.3%,10.9%)

Tzu-Po Chuang, Jaw-Yuan Wang, Shu-Wen Jao, Chang-Chieh Wu, Jiann-Hwa Chen, Koung-Hung Hsiao, Chung-Yen Lin, Shu-Hwa Chen, Sheng-Yao Su, Ying-Ju Chen, Yuan-Tsong Chen, Deng-Chyang Wu, Ling-Hui Li, Jun. 2016, “Over-expression of AURKA, SKA3 and DSN1 contributes to colorectal adenoma to carcinoma progression”, *Oncotarget*, 7, 45803-45818. (SCI) (IF: 5.008; SCI ranking: 23%,16.9%)

張韻詩 (LIU, JANE)

J. W. S. Liu, E. T.H. Chu, F. T Lin and Z. L. Zhong, Dec. 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, Jan. 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.*

劉進興 (LIU, JING-SIN)

Kunlin Wu, TJ Ho, Sean A. Huang, KH Lin, YC Lin and Jing-Sin Liu, Oct. 2016, “Path Planning and Replanning for Mobile Robot Navigation on 3D Terrain : An Approach Based on Geodesic”, *Mathematical Problems in Engineering*, 2016, 12. (SCI) (IF: 0.644; SCI ranking: 80.2%,69.4%)

Liu JS, Pan WH, Ku WY, Tsao YH, Chang YZ, Jan. 2016, “Simulation-based fast collision detection for scaled convex polyhedral objects in motion by exploiting analytical contact equations”, *Robotica*, 34, 118-134. (SCI) (IF: 0.824; SCI ranking: 68%)

Chien-Sheng Wu, Zih-Yun Chiu, Jing-Sin Liu, 2016 年 11 月, 〈A Comparative Study of Time-Optimal Trajectory Planning Along Lane-Change Path for Unicycle〉, 發表於第二十四屆全國自動化科技研討會(Automation 2016), Taichung, Taiwan, -: -, 2016-11。

劉庭祿 (LIU, TYNG-LUH)

Chung-Kuei Lee, Tyng-Luh Liu and Davi Geiger, Nov. 2016, “Affinity Networks for Large-Scale Data Clustering”, paper presented at *13th Asian Conference on Computer Vision, 2016, -: -, 2016-11.*

Tsung-Wei Ke, Che-Wei Lin, Tyng-Luh Liu and Davi Geiger, Nov. 2016, “Variational Convolutional Networks for Human-Centric Annotations”, paper presented at *13th Asian Conference on Computer Vision, 2016, -: -, 2016-11.*

Chung-Kuei Lee and Tyng-Luh Liu, Sept. 2016, “Guided Co-Training for Multi-View Spectral Clustering”, paper presented at *IEEE International Conference on Image Processing, -: -, 2016-09.*

Tsung-Wei Ke and Tyng-Luh Liu, Sept. 2016, “Recursive Reduction Net for Large-Scale High-Dimensional Data”, paper presented at *IEEE International Conference on Image Processing, -: -, 2016-09.*

呂及人 (LU, CHI-JEN)

Po-An Chen, Yi-Le Chen, and Chi-Jen Lu, May. 2016, “How Much of a Person Influencing the Others and Being Influenced Matters in Opinion Formation Games”, paper presented at *Collective Intelligence*

Conference, -: -, 2016-05.

Chun-Liang Li, Hsuan-Tien Lin, and Chi-Jen Lu, May. 2016, “Rivalry of Two Families of Algorithms for Memory-Restricted Streaming PCA”, paper presented at *Proceedings of the 19th International Conference on Artificial Intelligence and Statistics (AISTATS)*, -: -, 2016-05.

呂俊賢 (LU, CHUN SHIEN)

Chih-Yang Lin, Kahlil Muchtar, Chun-Shien Lu, and Chia-Hung Yeh, Jul. 2016, “Secure Multicasting of Images via Joint Privacy-Preserving Fingerprinting, Decryption, and Authentication”, *Journal of Visual Communication and Image Representation*, 38, 858-871. (SCI) (IF: 1.53; SCI ranking: 34%,17.9%)

Chia-Mu Yu, Chun-Shien Lu, and Sy-Yen Kuo, Apr. 2016, “Compressed Sensing-Based Clone Identification in Sensor Network”, *IEEE Trans. on Wireless Communications*, 15, 3071-3084.

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

Shih-Wei Hu, Gang-Xuan Lin, Sung-Hsien Hsieh, Wei-Jie, Liang, and Chun-Shien Lu, Apr. 2016, “Phase Transition of Joint-Sparse Recovery from Multiple Measurements with Prior Information via Convex Optimization”, , 4368-4372 pages, paper presented at *Proc. IEEE Int. Conf. on Acoustics, Speech, and Signal Processing (ICASSP)*, -: -, 2016-04.

馬偉雲 (MA, WEI-YUN)

Yu-Ming Hsieh, Wei-Yun Ma, Dec. 2016, “N-best Parse Rescoring Based on Dependency-Based Word Embeddings”, *International Journal of Computational Linguistics and Chinese Language Processing*, 21, 19-34.

Su-Chu Lin, Wei-Yun Ma and Yueh-Ying Shih, Nov. 2016, “A Unified Representation of Attributes and Their Semantic Composition”, paper presented at *International Conference on Asian Language Processing*, -: -, 2016-11.

Hsin-Yang Wang, Wei-Yun Ma, Nov. 2016, “CKIP Valence-Arousal Predictor for IALP 2016 Shared Task”, paper presented at *International Conference on Asian Language Processing*, -: -, 2016-11.

Shen-Yun Miao, Su-Chu Lin, Wei-Yun Ma, Keh-Yih Su, Oct. 2016, “Building a Corpus for Developing the Chinese Elementary School Math Word Problem Solver”, paper presented at *Proceedings of ROCLING 2016*, -: -, 2016-10.

Yu-Ming Hsieh, Wei-Yun Ma, Oct. 2016, “N-best Parse Rescoring Based on Dependency-Based Word Embeddings”, paper presented at *Conference on Computational Linguistics and Speech Processing*, -: -, 2016-10.

穆信成 (MU, SHIN-CHENG)

Yu-Hsi Chiang, Shin-Cheng Mu, Aug. 2016, “Formal derivation of greedy algorithms from relational specifications: a tutorial”, *Journal of Logic and Algebraic Programming*, 85, 879–905. (SCI) (IF: 0.579; SCI ranking: 83.8%,45.5%)

Shin-Cheng Mu, Yu-Hsi Chiang, and Yu-Han Lyu, Sept. 2016, "Queueing and glueing for optimal partitioning", , 158-167 pages, paper presented at *International Conference on Functional Programming (ICFP 2016)*, -: -, 2016-09.

施純傑 (SHIH, ARTHUR CHUN-CHIEN)

Yao-Ming Chang, Arthur Chun-Cheih Shih, Ling Li, Ya-Ting Chang, and Chien-Chang Chen , 2016 年 9 月 ,
〈 Dynamically Genetic Program by Co-regulated TF Groups during the Pressure Overload-induced Cardiac Hypertrophy in Mice 〉 , 發表於 15th European Conference on Computational Biology, ECCB'16 , - : - , 2016-09 。

蘇克毅 (SU, KEH-YIH)

Chao-Chun Liang, Shih-Hong Tsai, Ting-Yun Chang, Yi-Chung Lin and Keh-Yih Su, Dec. 2016, "A Meaning-based English Math Word Problem Solver with Understanding, Reasoning and Explanation", paper presented at *Proceedings of COLING 2016*, Osaka, Japan: -, 2016-12.

Qianlong Du, Chengqing Zong and Keh-Yih Su, Dec. 2016, "Intergrating Structural Context and Local Context for Disambiguating Word Senses", paper presented at *Proceedings of NLPCC-ICCPOL 2016*, Kunming, China: -, 2016-12.

Shen-Yun Miao, Su-Chu Lin, Wei-Yun Ma, Keh-Yih Su, Oct. 2016, "Building a Corpus for Developing the Chinese Elementary School Math Word Problem Solver", paper presented at *Proceedings of ROCLING 2016*, -: -, 2016-10.

Chao-Chun Liang, Kuang-Yi Hsu, Chien-Tsung Huang, Chung-Min Li, Shen-Yun Miao and Keh-Yih Su, Jul. 2016, "A Tag-based Statistic English Math Word Problem Solver with Understanding, Reasoning and Explanation", paper presented at *Proceedings of IJCAI 2016*, New York City, New York, U.S.A.: -, 2016-07.

Chao-Chun Liang, Kuang-Yi Hsu, Chien-Tsung Huang, Chung-Min Li, Shen-Yun Miao and Keh-Yih Su, Jun. 2016, "A Tag-based English Math Word Problem Solver with Understanding, Reasoning and Explanation", paper presented at *Proceedings of NAACL HLT 2016*, San Diego, CA, U.S.A.: -, 2016-06.

Huaxing Shi, Tiejun Zhao, and Keh-Yih Su, May. 2016, "Building a Case-based Semantic English-Chinese Parallel Treebank", paper presented at *Proceedings of LREC 2016*, Portorož, Slovenia: -, 2016-05.

宋定懿 (SUNG, TING-YI)

T. Mamie Lih, Wai-Kok Choong, Chen-Chun Chen, Cheng-Wei Cheng, Hsin-Nan Lin, Ching-Tai Chen, Hui-Yin Chang, Wen-Lian Hsu and Ting-Yi Sung, Jul. 2016, "MAGIC-web: a platform for untargeted and targeted N-linked glycoprotein identification", *Nucleic Acids Research*, 44, W575-580. (SCI) (IF: 9.202; SCI ranking: 6.2%)

Hui-Yin Chang, Ching-Tai Chen, T. Mamie Lih, Ke-Shiuan Lynn, Chiun-Gung Juo, Wen-Lian Hsu, Ting-Yi Sung, Jan. 2016, "iMet-Q: a user-friendly tool for metabolomics quantitation using dynamic peak-width determination", *PLoS ONE*, 11, e0146112. (SCI) (IF: 3.057; SCI ranking: 17.5%)

Hui-Yin Chang, Ching-Tai Chen, Chiun-Gung Juo, Wen-Lian Hsu, Ting-Yi Sung, Sept. 2016, "iTop-Q: an intelligent top-down proteomics quantification tool using the DYAMOND algorithm for charge state deconvolution", paper presented at *15th HUPO World Congress*, -: -, 2016-09.

蔡懷寬 (TSAI, HUAI-KUANG)

- Chiang, S., Shimodaira, H., Tsai, H.K.*, and Okada M.*, Sept. 2016, “Dissecting the transcriptional response of the antigen-stimulated B cells using a generalized multiplicative decomposition model (GMDM)”, paper presented at *The 17th International Conference on Systems Biology (ICSB)*, -: -, 2016-09.
- Hung, P.H., Tsai, H.K., and Leu, J.Y., Sept. 2016, “Identification of cryptic genetic variations buffered by HSP90 in wild yeast populations”, paper presented at *The 17th International Conference on Systems Biology (ICSB)*, -: -, 2016-09.
- Liu, W.H., Tsai, Z. T., and Tsai, H. K.*, Jun. 2016, “Comparative genomic analyses highlight the contribution of pseudogenized protein-coding genes to human lincRNAs”, paper presented at *RNA*, -: -, 2016-06.

吳真貞 (WU, JAN-JAN)

- Ching-Chi Lin, Hsiang-Hsin Li, Pangfeng Liu, and Jan-Jan Wu, Dec. 2016, “An Energy-efficient Scheduler for Throughput Guaranteed Jobs on Asymmetric Multi-core Platforms”, paper presented at *IEEE International Conference on Parallel and Distributed Systems (ICPADS)*, -: -, 2016-12.
- Ding-Yong Hong, Sheng-Yu Fu, Yu-Ping Liu, Jan-Jan Wu, and Wei-Chung Hsu, Dec. 2016, “Exploiting Longer SIMD Lanes in Dynamic Binary Translation”, paper presented at *IEEE International Conference on Parallel and Distributed Systems (ICPADS)*, -: -, 2016-12.
- Chun-Chen Hsu, Ding-Yong Hong, Cheng-Yi Chou, Jan-Jan Wu, Wei-Chung Hsu, and Pangfeng Liu, Jan. 2016, “Optimizing Control Transfer and Memory Virtualization in Full System Emulators”, paper presented at *European Network of Excellence on High-Performance and Embedded Architecture and Compilation (HiPEAC)*, -: -, 2016-01.

楊得年 (YANG, DE-NIAN)

- C.-Y. Shen, D.-N. Yang, W.-C. Lee, and M.-S. Chen, Jun. 2016, “Spatial-Proximity Optimization for Rapid Task Group Deployment”, *ACM Trans. on Knowledge Discovery from Data*, 10, 47:1-36.
- H.-H. Shuai, D.-N. Yang, P. S. Yu, and M.-S. Chen, Jan. 2016, “A Comprehensive Study on Willingness Maximization for Social Activity Planning with Quality Guarantee”, *IEEE Trans. on Knowledge and Data Engineering*, 28, 2-16.
- S.-Y. Lee, C.-Y. Liu, M.-K. Chang, D.-N. Yang, and Y.-W. Hong, Jan. 2016, “Cooperative Multicasting in Renewable Energy Enhanced Relay Networks - Expending More Power to Save Energy”, *IEEE Trans. on Wireless Communications*, 15, 753-768.
- C.-Y. Shen, D.-N. Yang, L.-H. Huang, W.-C. Lee, and M.-S. Chen, Jan. 2016, “Socio-Spatial Group Queries for Impromptu Activity Planning”, *IEEE Trans. on Knowledge and Data Engineering*, 28, 196-210.
- C.-H. Wang, P.-S. Huang, D.-N. Yang, and W.-T. Chen, Dec. 2016, “Cross-Layer Design of Influence Maximization in Mobile Social Networks”, paper presented at *IEEE Global Communications Conference (IEEE GLOBECOM)*, -: -, 2016-12.
- Chih-Hang Wang, Po-Shun Huang, De-Nian Yang, and W. T. Chen, Dec. 2016, “Cross-Layer Design of Influence Maximization in Mobile Social Networks”, paper presented at *Proceedings of Global Communications Conference (IEEE GLOBECOM 2016)*, Washington, DC, USA: -, 2016-12.
- J.-T. Lee, D.-N. Yang, and W. Liao, Dec. 2016, “Efficient Caching for Multi-View 3D Videos”, paper

- presented at *IEEE Global Communications Conference (IEEE GLOBECOM)*, -: -, 2016-12.
- C.-H. Lin, D.-N. Yang, C.-T. Lee, and W. Liao, Dec. 2016, “Efficient Error-Resilient Multicasting for Multi-View 3D Videos in Wireless Networks”, paper presented at *IEEE Global Communications Conference (IEEE GLOBECOM)*, -: -, 2016-12.
- H.-J. Hung, H.-H. Shuai, D.-N. Yang, L.-H. Huang, W.-C. Lee, J. Pei, and M.-S. Chen, Aug. 2016, “When Social Influence Meets Item Inference”, paper presented at *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (ACM KDD)*, -: -, 2016-08.
- H.-J. Hung, D.-N. Yang, and W.-C. Lee, Jun. 2016, “Routing and Scheduling of Social Influence Diffusion in Online Social Networks”, paper presented at *IEEE International Conference on Distributed Computing Systems (IEEE ICDCS)*, -: -, 2016-06.
- Y.-H. Lin, S.-H. Shen, M.-H. Yang, D.-N. Yang, and W.-T. Chen, May. 2016, “Privacy-Preserving Deep Packet Filtering over Encrypted Traffic in Software-Defined Networks”, paper presented at *IEEE International Conference on Communications (IEEE ICC)*, -: -, 2016-05.
- Yi-Hui Lin, Shan-Hsiang Shen, Ming-Hong Yang, De-Nian Yang, W. T. Chen, May. 2016, “Privacy-Preserving Deep Packet Filtering over Encrypted Traffic in Software-Defined Networks”, paper presented at *Proceedings of IEEE International Conference on Communications (IEEE ICC 2016)*, Kuala Lumpur, Malaysia: -, 2016-05.
- H.-H. Shuai, C.-Y. Shen, D.-N. Yang, Y.-F. Lan, W.-C. Lee, P. S. Yu, and M.-S. Chen, Apr. 2016, “Mining Online Social Data for Detecting Social Network Mental Disorders”, paper presented at *International World Wide Web Conference (WWW)*, -: -, 2016-04.
- L.-H. Huang, H.-C. Hsu, S.-H. Shen, D.-N. Yang, and W. T. Chen, Apr. 2016, “Multicast Traffic Engineering for Software-Defined Networks”, paper presented at *IEEE Conference on Computer Communications (IEEE INFOCOM)*, -: -, 2016-04.
- Liang-Hao Huang, Hsiang-Chun Hsu, Shan-Hsiang Shen, De-Nian Yang, and W. T. Chen, Apr. 2016, “Multicast Traffic Engineering for Software-Defined Networks”, paper presented at *Proceedings of IEEE Conference on Computer Communications (IEEE INFOCOM 2016)*, San Francisco, California, USA: -, 2016-04.
- D.-Y. Huang, S. Yang, F. Wang, R.-H. Liang, L. Chan, D.-N. Yang, Y.-P. Hung, B.-Y. Chen., Mar. 2016, “DigitSpace: Designing Thumb-To-Fingers Touch Input Interface for One-Handed and Eyes-Free Interactions”, paper presented at *ACM SIGCHI Conference on Human Factors in Computing Systems (ACM CHI)*, -: -, 2016-03.

楊奕軒 (YANG, YI-HSUAN)

- Ping-Keng Jao, Li Su, Yi-Hsuan Yang and Brendt Wohlberg, Nov. 2016, “Monaural Music Source Separation using Convolutional Sparse Coding”, *IEEE/ACM Trans. Audio, Signal Language Proc. (TASLP)*, 24, 2158 - 2170.
- Mu-Heng Yang, Li Su and Yi-Hsuan Yang, Dec. 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, Nov. 2016, “Automatic violin synthesis using expressive musical term features”, paper presented at *Proc. Int. Conf. Digital Audio Effects (DAFx)*, -

: -, 2016-11.

Li Su, Tsung-Ying Chuang and Yi-Hsuan Yang, Aug. 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.

葉彌妍 (YEH, MI-YEN)

Chien-Wei Chang, Mi-Yen Yeh, and Kun-Ta Chuang, Aug. 2016, “On the Guarantee of Containment Probability in Influence Minimization”, paper presented at *The 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM-2016)*, -: -, 2016-08.

Yu-Jen Lin, Fang-Yi Chiu, Mi-Yen Yeh, Ya-Hui Chan and Chia-Chi Wu, Jan. 2016, “Predicting Popularity of Articles on Bulletin Board System”, paper presented at *The 3rd Int'l Conf. on Big Data and Smart Computing*, -: -, 2016-01.