

2015 Annual Report (June 2014 – May 2015)

Multimedia Systems and Applications Technical Committee

IEEE Circuits and Systems Society

Chairman: Dr. Chia-Wen Lin
Secretary: Dr. Zicheng Liu

1. TC Activities June 2014 – May 2015:

1.1. New Election Results

- ICME steering committee members: Shipeng Li
- New members (term: 2014/9~2018/8): Nam Ling, Yap-Peng Tan, Mladen Berekovic, Xian-Sheng Hua, Ying Li, Maria Trocan, Susanto Rahardja, Xiaoyan Sun, Junsong Yuan, Xiao-Ping Zhang, Samson Cheung, Rongshan Yu

1.2. Subcommittees

- TC by-law/P&P sub-committee: Zicheng Liu (Chair), Yen-Kuang Chen, Chia-Wen Lin, Samson Cheung, Joern Ostermann, Anthony Vetro, Yap-Peng Tan
- Technical vision sub-committee: Jian Zhang (Chair), Yen-Kuang Chen, Shao-Yi Chien, JongWon Kim, Yong Rui, Wenjun Zeng
- Membership and election sub-committee: Yap-Peng Tan (Chair), Wenjun Zeng, Enrico Magli
- Award and nomination sub-committee: Anthony Vetro (Chair), Ming-Ting Sun, Ling Guan, Homer Chen, and Pascal Frossard
- T-MM Subcommittee: Ching-Yung Lin (Chair), C.-C. Jay Kuo, Ming-Ting Sun, Yong Rui, Moncef Gabbouj, Anthony Vetro, Pascal Frossard, Wenjun Zeng, Yen-Kuang Chen, Zicheng Liu, Chia-Wen Lin
- On-line community sub-committee:
- TC Newsletters: Shao-Yi Chien
- ICME steering committee: Nam Ling, Tao Mei

2. Technical Committee Meetings:

The Multimedia Systems and Applications Technical Committee in the IEEE Circuits and Systems Society annually organized two TC meetings, which were held in ISCAS and ICME. The details of TC Meetings are enlisted in the following:

2.1. Upcoming TC Meeting in ISCAS 2015

Date: May 27, 2015

Time: 12:50-14:10

Location: Room 5-F, Pessoa, Cultural Center of Belem, Lisbon, Portugal

Chairman: Chia-Wen Lin

Secretary: Zicheng Liu

3. Members submitted Annual Reports:

First Name	Last Name	Affiliation	Email
Chia-Wen	Lin	National Tsing Hua University, Taiwan	cwlin@ee.nthu.edu.tw
Rongshan	Yu	Institute for Infocomm Research	rongshanyu@ieee.org
Winston	Hsu	National Taiwan University, Taiwan	whsu@ntu.edu.tw
Anthony	Vetro	Mitsubishi Electric Research Labs	avetro@merl.com
C.-C. Jay	Kuo	University of Southern California	cckuo@sipi.usc.edu

Ying	Li	IBM	yingli@us.ibm.com
Samson	Cheung	University of Kentucky, USA	sccheung@IEEE.ORG
Zicheng	Liu	Microsoft Research, USA	zliu@microsoft.com
Jie	Liang	Simon Fraser University, Canada	jiel@sfu.ca
Junsong	Yuan	Nanyang Technological University, Singapore	jsyuan@ntu.edu.sg
Lap-Pui	Chau	Nanyang Technological University, Singapore	elpchau@ntu.edu.sg
Yong	Rui	Microsoft Research Asia	yongrui@microsoft.com
Enrico	Magli	Politecnico di Torino, Italy	Enrico.magli@polito.it
Moncef	Gabbouj	Tampere University of Technology	Moncef.gabbouj@tut.fi
Ming-Ting	Sun	University of Washington, USA	mts@uw.edu
Shipeng	Li	Microsoft Research Asia	shipeng.li@microsoft.com
Yen-Kuang	Chen	Intel	y.k.chen@ieee.org
Wenwu	Zhu	Tsinghua University, China	wwzhu@tsinghua.edu.cn
J. F.	Yang	National Cheng Kung University	jfyang@EE.NCKU.EDU.TW
Jianfei	Cai	Nanyang Technological University	asjfcail@ntu.edu.sg
Wen-Hsiao	Peng	National Chiao Tung University, Taiwan	wpeng@cs.nctu.edu.tw
Shao-Yi	Chien	National Taiwan University	sychien@ntu.edu.tw
Gwo Giun	Lee	National Cheng Kung University, Taiwan	cleel@mail.ncku.edu.tw
Xiaoyan	Sun	Microsoft Research Asia	xysun@microsoft.com
Pau-Choo (Julia)	Chung	National Cheng Kung University, Taiwan	pcchung@ee.ncku.edu.tw
Weisi	Lin	Nanyang Technological University, Singapore	wslin@ntu.edu.sg
Xiao-Ping	Zhang	Ryerson University, Canada	xzhang@ee.ryerson.ca
Nam	Ling	Santa Clara University	nling@scu.edu
Jian	Zhang	University of Technology, Sydney	jian.zhang@uts.edu.au
Mladen	Berekovic	Braunschweig University of Technology	berekovic@c3e.cs.tu-bs.de
Tao	Mei	Microsoft Research Asia	tmei@microsoft.com
Chang Wen	Chen	SUNY-Buffalo	chencw@buffalo.edu
Thanos	Stouraitis	U. of Patras, Greece	thanos@upatras.gr
Homer	Chen	National Taiwan University	homer@ntu.edu.tw

4. Accomplished Technical Activities (June 2014 to May 2015)

Conference organizations:

- ISCAS 2015, Jie Liang (Picture Coding Symposium TPC member), Enrico Magli (Review Committee Member), Shipeng Li (RCM), Jianfei Cai (Track Co-Chair), Wen-Hsiao (RCM), Xiao-Ping Zhang (Track Chair), Thanos Stouraitis (Special Session Chair and Organizer).
- ICME 2014, Shipeng Li, Touradj Ebrahimi (General Co-Chair), Zicheng Liu, Shao-Yi Chien (TPC Co-Chair), Mei Tao (Workshop Co-Chair), Ying Li (Finance Co-Chair), Junsong Yuan (Area Chair), Jianfei Cai (Steering Committee Member)
- ACM Multimedia 2014, Yong Rui (General Chair), Wenwu Zhu (TPC Co-Chair), ChangWen Chen (Panel Chair)
- MMSP 2014: Susanto Rahardja (General Chair), Chia-Wen Lin (Finance Chair), Enrico Magli (Europe Liaison), Nam Ling (American Liaison).
- IEEE World Forum on Internet of Things (WF-IOT) 2014: Rongshan Yu (Publicity Chair)
- APSIPA ASC 2014 (Conference Co-Chair: C.-C. Jay Kuo), December 2014
- The 8th Network and System Security (NSS) Conference (Program Co-Chair: C.-C. Jay Kuo), October 2014
- CISP2015, Jie Liang (program co-chair)
- ChinaSIP 2015, Jie Liang (Track Chair), Xiaoyan Sun (Technical Track Co-Chair)
- ACM International Conference on Multimedia, Steering Committee Members (Yong Rui)
- ACM International Conference on Multimedia Retrieval, Steering Committee Members (Yong Rui)

- PCM, Steering Committee Members (Yong Rui)
- IEEE BigDataSE-15, Moncef Gabbouj (General Co-Chair)
- IEEE Signal Processing Society Summer School on Machine-to-Machine and Internet of Things 2014: Yen-Kuang Chen (General Co-Chair)
- IEEE International Conference on Green Computing and Communication 2014: Yen-Kuang Chen (General Co-Chair)
- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2015, Yen-Kuang Chen (Track Chair on IoT), Homer Chen (TPC member)
- ICIMCS '14, Wenwu Zhu (TPC Co-Chair)
- BigMM'15, Wenwu Zhu (Best paper award committee)
- VCIP 2014, Jianfei Cai (Publicity Co-Chair), Gwo Giun Lee (RCM)
- APSIPA2014, Wen-Hsiao Peng, Lead Organizer for Special Session on HEVC Video Coding and Its Extensions.
- SiPS 2014: Shao-Yi Chien, Gwo Giun Lee (TPC Member)
- VLSI-DAT 2014: Shao-Yi Chien (TPC Member)
- iThings 2014: Shao-Yi Chien (TPC Char)
- GreenCom 2014: Shao-Yi Chien (TPC Char)
- CPSCOM 2014: Shao-Yi Chien (TPC Char)
- ICASSP 2014, Gwo Giun Lee (RCM), Weisi Lin (Area Chair)
- Asilomar 2014, Gwo Giun Lee (RCM)
- Joint IWAIT & IFMIA 2015, Julia Chung (General Chair)
- ISBB 2014: : Julia Chung (Steering Committee)
- ICIP 2014, Weisi Lin (Area Chair)
- Umedia 2014: Nam Ling (General Co-Chair)
- ICIEA 2014: Nam Ling (Int'l Advisory Committee)
- International Workshop on Perception Inspired Video Processing, in conjunction with ACM Multimedia, 2015, Homer Chen (Organizing Committee Member)

IEEE and Other Journal Editorships:

- IEEE Transactions on Multimedia: EiC: Chang Wen Chen; AEs: Chia-Wen Lin (retired in Oct. 2014), Wenwu Zhu, Xiao-Ping Zhang, Mei Tao
- IEEE Multimedia Magazine: EiC: Yong Rui, AE: Chia-Wen Lin, Winston Hsu, Anthony Vetro
- IEEE Transactions on Circuits & Systems for Video Technology: Deputy EiC: Shipeng Li; AEs: Jie Liang, Lap-Pui Chau, Shao-Yi Chien, Xiao-Ping Zhang, Jian Zhang, Guest Editor Wenwu Zhu
- IEEE Transactions on Circuits and System I
- IEEE Transactions on Circuits and Systems-II
- IEEE Journal on Emerging and Selected Topics in Circuits and Systems: Deputy EiC: Yen-Kuang Chen; Senior Editors: Julia Chung; Lead Guest Editor: Wen-Hsiao Peng
- IEEE Journal of Selected Topics in Signal Processing: Senior Editors: Anthony Vetro; Guest Editor: Chia-Wen Lin, Enrico Magli, Homer Chen.
- IEEE/ACM Transactions on Audio, Speech and Language Processing: AE: Rongshan Yu
- IEEE Access: AE: Rongshan Yu
- IEEE Transactions on Information Forensics and Security, EiC: C.-C. Jay Kuo, AE: Samson Cheung
- IEEE Transactions on Image Processing, AE: Jie Liang, Jianfei Cai, Weisi Lin
- IEEE Transactions on Big Data, AE: Wenwu Zhu
- IEEE SPL, AE: Jie Liang
- EURASIP Journal on Image and Video Processing, AE: Jie Liang
- Signal Processing: Image Communication, AE: Jie Liang, Samson Cheung
- Machine Vision and Applications journal, AE, Zicheng Liu
- Journal of Visual Communication and Image Representation, Co-Editor-in-Chiefs: Ming-Ting Sun, Zicheng Liu. AE: Weisi Lin.
- Journal of Multimedia, AE (Junsong Yuan)
- The Visual Computer Journal, AE (Junsong Yuan, Lap-Pui Chau)
- IPSJ Transactions on Computer Vision and Applications, AE (Junsong Yuan)
- International Journal of Computer Vision, Guest Editor (Junsong Yuan)
- IEEE Transactions on Broadcasting, AE: Lap-Pui Chau
- ACM TOMM: AE: Yong Rui
- International Journal on Multimedia Retrieval: AE: Yong Rui

- IEEE Internet of Things Journal (IoTJ): Yen-Kuang Chen (Steering committee member)
- Journal of Computer Science and Technology: Leading Area Editor : Wenwu Zhu
- International Journal of Automation and Technology, Editorial Board Member, J. F. Yang
- IET Signal Processing, Editorial Board Member, J. F. Yang
- EURASIP Journal of Advances in Signal Processing, AE. J. F. Yang
- Hindawi Journal of Electrical and Computer Engineering, AE, J. F. Yang
- Springer Circuits, Systems, and Signal Processing (CSSP): AE: Shao-Yi Chien
- Journal of Signal Processing Systems, AE: Gwo Giun Lee.
- Signal Processing, Area Editor
- IEEE Transactions on Neural Networks and Learning System (TNNLS): AE: Julia Chung
- Multidimensional Systems and Signal Processing (MSSP): AE: Julia Chung
- IEEE Signal Processing Letters, AE: Weisi Lin, Xiao-Ping Zhang
- IEEE Computer Graphics and Applications Magazine: Guest Editor: Weisi Lin
- IEEE Transactions on Signal Processing: AE: Xiao-Ping Zhang
- Multidimensional Systems and Signal Processing (Springer): AE: Nam Ling
- Human-centric Computing and Information Sciences (Springer): AE: Nam Ling

Distinguished Lecturer:

- Chia-Wen Lin (APSIPA)
- Nam Ling (APSIPA)
- Yong Rui (IEEE CAS, ACM)
- Enrico Magli (IEEE CAS)
- Zicheng Liu (IEEE CAS)
- Lap-Pui Chau (IEEE Broadcast Technology Society)
- Shipeng Li (ACM distinguished speaker 2015)
- Wenwu Zhu (ACM)

Keynote Speeches:

- Lap-Pui Chau, Computer Graphics International 2015
- Yong Rui, Innovation Lights Up People's Life, Digital Business Summit, Beijing, China, Oct. 2014.
- Yen-Kuang Chen, IEEE, Keynote speech at IEEE International Conference on Cyber Technology in Automation, Control, and Intelligent Systems, "Challenges and Opportunities of Connected Vehicle Safety", June 2014
- Jianfei Cai, Keynote speaker, International Workshop on Video Segmentation in Computer Vision (ViSeg), in conjunction with ACCV'14.
- Gwo Giun Lee, Third IEEE International conferences on SOSE/Mobile Cloud/Big Data and Service 2015, Red Wood City, US. Keynote Speaker
- Julia Chung, Joint Conference on Medical Informatics in Taiwan (JCMIT 2014), "Vision of Healthcare from the development of wearable devices", Nov. 2014
- Julia Chung, 2014 IEEE International Symposium on Computer, Consumer and Control (IS3C 2014), "Depth Estimation using Spatial and Temporal Consistency Information", June 2014.
- Julia Chung, The 8th International Conference on Advanced Information Technologies (AIT 2014), "Intelligent Sensing for Healthcare Applications", April 2014
- Julia Chung, 2014 International Workshop on Advanced Image Technology (IWAIT 2014), "Intelligent Sensing for Healthcare Applications", January 2014
- Weisi Lin, Keynote Speech, 7th International Workshop on Quality of Multimedia Experience (QoMEX), 26 - 29 May 2015, Greece.
- Nam Ling (2014 Workshop on Image and Video Processing for Applications in Electronic Information Scene Investigation)
- Nam Ling (Umedia 2014)
- ChangWen Chen, IET ICT2014, Keynote: When Mobile Multimedia meets Cloud: Challenges and Future Directions, May 16, 2014
- ChangWen Chen, ICIEA2014, Keynote: Mobile Social Media: Recent Advances and Challenges, June 9, 2014
- ChangWen Chen, ICCE-TW, Mentor Speaker of the Young Professionals Event, June 2015
- Thanos Stouraitis, "Flexible Cryptographic Systems," Keynote Speech, The IEEE Asia Pacific Conference on Circuits and Systems (APCCAS 2014), Nov. 17-20, 2014, Ishigaki Island, Okinawa,

Japan

- Thanos Stouraitis, “Matching Data Representation to Application Needs - Case Study: Cryptographic Systems,” Keynote Speech, 18th IEEE International Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS 2015) 22-24 April 2015, Belgrade, Serbia.

Other IEEE services (e.g., CAS BoG, Region presidents, VP, ...) :

- CAS BoG: Chang Wen Chen
- CAS Fellow Committee: Anthony Vetro
- SPS BoG: C.-C. Jay Kuo
- Board Member, Technical Advisory Board of National Engineering Center for Education, Huazhong Normal University, 2012 – Present, Yong Rui
- Member of the IEEE Fourier Award for Signal Processing Committee, Moncef Gabbouj
- Member of the IEEE Signal Processing Society Big Data Interest Group (BIG-SIG), Moncef Gabbouj
- IEEE MMTC Interest Group on Multimedia Processing for Communications: Advisor, Ming-Ting Sun
- Chair, IEEE Signal Processing Society Special Interest Group on Internet of Things: Yen-Kuang Chen
- CAS Beijing Chapter Chair: Wenwu Zhu
- Director, Center for Tomorrow Ubiquitous Cloud and Hypermedia Services, National Cheng Kung University, Taiwan, J. F. Yang
- IEEE CAS Member of Conference Board, ChangWen Chen
- IEEE CAS Member of the TC Review Committee, ChangWen Chen
- CASS Past President, Thanos Stouraitis
- IEEE SPS Fellow Reference Committee Member, Homer Chen
- IEEE SPS Fourier Award Committee Member, Homer Chen
- Award Subcommittee Co-Chair, IEEE SPS IVMSPP TC
- APSIPA BoG Member
- IEEE ICME Steering Committee Member, 2014
- Award Subcommittee Co-Chair, IEEE SPS MMSP TC

Awards and Honors (e.g., Fellow, best paper awards, outstanding services, etc...):

- New IEEE Fellow (Class of 2015) : Zicheng Liu, Hong Jiang
- IEEE T-MM 2015 Best Paper Award: Yong Rui.
- 2014 Best Associate Editor Award, IEEE Transactions on Circuits and Systems for Video Technology: Jie Liang
- Best paper award at the 8th ACM Symposium on Eye Tracking Research and Applications (ETRA), March, 2014. Zicheng Liu
- IEEE T-CSVT 2014 Best Associate Editor Award (Enrico Magli)
- Member of the Academia Europaea, Moncef Gabbouj
- Member of the Finnish Academy of Science and Letters, Moncef Gabbouj
- The largest TUT Foundation Research investment award of €600 000 to conduct Big Data related research 2014-2015, Moncef Gabbouj
- IBM Best Paper Award at ICPR 2014, Moncef Gabbouj
- Ranked 2nd and 4th in Microsoft Research Bing Image Retrieval Challenge (2014), Moncef Gabbouj
- 3rd position in the International Competition on Counter Measures to 2D Face Spoofing Attacks at ICB 2013, Moncef Gabbouj
- 3rd place in the Brain-Computer Interaction (BCI) Challenge@NER2015, Moncef Gabbouj
- New SPIE Fellow (Class of 2014) : Wenwu Zhu
- Best Industrial Cooperation Professor Award, National Cheng Kung University, Taiwan, J.F. Yang
- Co-recipient of Best Student Paper Honorable Mention Award in ACCV 2014, Jiefei Cai
- IEEE MMSP 2014 Top 10% Paper Award, Jianfei Cai
- IEEE ICIP 2014 Top 10% Paper Award, Jianfei cai
- Intel Labs Distinguished Collaborative Research Award 2014, Shao-Yi Chien
- ICME 2014 Best Paper Award, ChangWen Chen
- Outstanding Research Award, Ministry of Science and Technology, Taiwan, 2015
- Teaching Award, National Taiwan University, 2014

Upcoming Event and Future Conference Activities

- ICME 2015: Enrico Magli (General Chair), Chia-Wen Lin (Publicity Chair), Anthony Vetro (General Chair), Jie Liang, Junsong Yuan (Area Chair), Shipeng Li (Plenary Chair), Wen-Hsiao Peng (Area Chair), Shao-Yi Chien (Area Chair), Xiaoyan Sun (Area Chair), Weisi Lin (Area Chair), Tao Mei (TPC co-chair)
- VCIP 2015: Yap-Peng Tan (General Chair), Junsong Yuan (TPC Chair), Chia-Wen Lin (Special Session Chair) , Zicheng Liu (Tutorial Chair), Enrico Magli (Publicity co-chair), Ming-Ting Sun (Honorary Chair), Wen-Hsiao Peng (Area Chair), Jian Zhang (TPC Chair)
- MMSP 2015: Xiao-Ping Zhang (General Chair), Oscar Au (General Chair), Chia-Wen Lin (Finance Chair), Anthony Vetro (Plenary Chair), Tao Mei (TPC co-chair)
- ICME 2016: Ming-Ting Sun (General Co-Chair), Anthony Vetro (Technical Program Chair), Jie Liang (Web Chair), Junsong Yuan (Publication Co-Chair), Zicheng Liu (Local Co-Chair)
- DSP 2015: Lap-Pui Chau, General Co-chairs
- ICICS 2015: Lap-Pui Chau, General Co-chairs
- ACM ICMI 2015 Zicheng Liu (Local Chair)
- ACM Multimedia 2015, Junsong Yuan (TPC member), Tao Mei (Open Source Software Competition co-chair), ChangWen Chen (Panel Chair)
- ACM Multimedia 2016: Wenwu Zhu (Panel Chair)
- IEEE JSAC Special Issue : Wenwu Zhu (GE, Video Distribution over Future Internet), ChangWen Chen (Senior Editor)
- JCST: Wenwu Zhu (GE, Networking and Distributed Computing for Big Data)
- IEEE International Symposium on Multimedia 2015: Wen-Hsiao Peng (TPC Member)
- IEEE Symposium on Crowdsourcing, Oxford, UK, Gwo Giun Lee (General Co-chair)
- ICIP 2015, Weisi Lin (Area Chair), Xiao-Ping Zhang (Area Chair)
- SiPS 2015: Nam Ling (General Chair)
- Umedia 2015: Nam Ling (General Co-Chair)
- ICIEA 2015: Nam Ling (Int'l Advisory Committee)
- WIFS 2015: Samson Cheung (Demo Chair)
- ISCCSP 2014: International Symposium on Communications, Control, and Signal Processing, Athens, Greece, May 21-23, 2014, Thanos Stouraitis (General Chair)
- IEEE International Workshop on Multimedia Signal Processing, Homer Chen (Plenary Co-Chair)

5. Curated Publication List (March 2014 to February 2015)

1. Y.-C. Su, T.-H. Chiu, Y.-H. Kuo, C.-Y. Yeh, W. H. Hsu. Scalable Mobile Visual Classification by Kernel Preserving Projection Over High-Dimensional Features. In *IEEE Transactions on Multimedia*, Volume 16, No 6, Pages 1645-1653, October 2014.
The first work addresses mobile-compliant learning algorithms for large-scale mobile visual recognition and lists the challenges and opportunities for further research directions.
2. F. Zou, D. Tian, A. Vetro, H. Sun, O. C. Au, S. Shimizu, "View Synthesis Prediction in the 3D Video Coding Extensions of AVC and HEVC", *IEEE Transactions on Circuits and Systems for Video Technology*, Vol. 24, No. 10, pp. 1696-1708, March 2014.
View synthesis prediction is proposed to improve coding efficiency of multiview plus depth video; these designs were adopted in the 3D extensions of both AVC and HEVC.
3. H. Kadu and C.-C. J. Kuo, "Automatic human mocap data classification," *IEEE Trans. o Multimedia*, Vol. 16, No. 8, pp. 2191-2202, December 2014.
Automatic classification of human motion capture (mocap) data has many commercial, biomechanical, and medical applications and is the principal focus of this paper.
4. G. Yu, J. Yuan, and Z. Liu, "Propagative Hough Voting for Human Activity Detection and Recognition", *IEEE Trans. on Circuits and Systems for Video Technology*, Vol. 25, No. 1, pp. 87-98, 2015.

A novel Hough voting algorithm that can achieve state-of-the-art performance for different action analysis tasks such as activity search (limited training) and recognition (sufficient training).

5. S.-H. Ou, C.-H. Lee, V. S. Somayazulu, Y.-K. Chen, S.-Y. Chien, "On-line multi-view video summarization for wireless video sensor network," IEEE Journal of Selected Topics in Signal Processing (Special Issue on Visual Signal Processing for Wireless Networks), vol. 9, no.1, pp. 165—179, Feb. 2015.

It defines a new important problem for video sensor networks: on-line video summary. With the proposed technique, 90% of the transmission bandwidth can be reduced.

6. Q. Fang, J. Sang, C. Xu, Y. Rui: Topic-Sensitive Influencer Mining in Interest-Based Social Media Networks via Hypergraph Learning. IEEE Transactions on Multimedia 16(3): 796-812 (2014)

This paper developed a novel Topic-Sensitive Influencer Mining (TSIM) framework in interest-based social media networks.

7. A. M. Sheikh, A. Fiandrotti, E. Magli, "Distributed Scheduling for Low-Delay and Loss-Resilient Media Streaming with Network Coding," IEEE Transactions on Multimedia, vol. 16 n. 8, pp. 2294-2306, Dec. 2014.

An algorithm allowing distributed collaborative streaming systems to independently schedule packets so as to optimize quality of experience in a network coding scenario.

8. C. Zhu, J. Lei, S. Li, M.T. Sun, and C. Hou, "Depth Coding Based on Depth-Texture Motion and Structure Similarities," IEEE Transactions on Circuits and Systems for Video Technology, vol.25, no.2, pp. 275-286, February 2015.

Propose a high performance depth coding in 3D video by making good use of its coded texture video counterpart.

9. Y.-L. Hsu, P.-C. Chung, W.-H. Wang, M.-C. Pai, C.-Y. Wang, C.-W. Lin, H.-L. Wu, and J.-S. Wang, "Gait and Balance Analysis for Patients with Alzheimer's Disease Using an Inertial-Sensor-Based Wearable Instrument", IEEE Journal of Biomedical and Health Informatics, vol. 18, no. 6, pp 1822 - 1830 , Nov. 2014.

An Alzheimer patient evaluation system which consists of several parameters developed from both single task and dual task tests is presented for the analysis of gait and balance of Alzheimer patients.

10. Z. Wang, W. Zhu, M. Chen, L. Sun, S. Yang, CPCDN: Content Delivery Powered by Context and User Intelligence. IEEE Transactions on Multimedia 17(1): 92-103 (2015)

By exploiting powerful CP-level information in content distribution, namely context intelligence and user intelligence, this paper proposed a novel distribution framework.