

# 2011 Annual Report (May 2010 – May 2011)

## Multimedia Systems and Applications Technical Committee

### IEEE Circuits and Systems Society

Chairman: Dr. Ching-Yung Lin  
Secretary: Dr. Yen-Kuang Chen

## 1. TC Activities June 2010 – May 2011:

### 1.1. New Election Results

- ICME TC co-chairs: Xian-Sheng Hua (ICME 2012)
- ICME steering committee members: Yong Rui (term: 2011~2012)

## 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 2011

Date: 17 May 2011 (Tuesday, during ISCAS 2010)  
ISCAS 2011, Rio de Janeiro, Brazil  
Time: 12:10pm – 1:15pm  
Chairman: Ching-Yung Lin  
Secretary: Yen-Kuang Chen

## 3. Members submitted Annual Reports:

First Name	Last Name	Affiliation	Email
Supavadee	Aramvith	Chulalongkorn University	Supavadee.A@chula.ac.th
Oscar Chi-Lim	Au	University of Science and Technology	eeau@ust.hk
Jianfei	Cai	Nanyang Technological University	ASJFCai@ntu.edu.sg
Tian Sheuan	Chang	National Chiao-Tung University	tschang@twins.ee.nctu.edu.tw
Lap-Pui	Chau	Nanyang Technological University	elpchau@ntu.edu.sg
Chang Wen	Chen	University at Buffalo	chencw@buffalo.edu
Homer	Chen	National Taiwan University	homer@cc.ee.ntu.edu.tw
Yen-Kuang	Chen	Intel Corporation	yen-kuang.chen@intel.com
Sen-ching Samson	Cheung	University of Kentucky	sccheung@ieee.org
Shao-Yi	Chien	National Taiwan University	sychien@cc.ee.ntu.edu.tw
Anthony	Ho	University of Surrey	A.Ho@surrey.ac.uk
Yueh-Min (Ray)	Huang	National Cheng-Kung University	huang@mail.ncku.edu.tw
C.-C. Jay	Kuo	University of Southern California	cckuo@sipi.usc.edu
Gwo Giun (Chris)	Lee	National Cheng Kung University	clee@mail.ncku.edu.tw
Houqiang	Li	University of Science and Technology of China	lihq@ustc.edu.cn
Jie	Liang	Simon Fraser University	jliel@sfu.ca
Chia-Wen	Lin	National Tsing Hua University Taiwan	cwlin@ee.nthu.edu.tw
Ching-Yung	Lin	IBM Watson Research Center	chingyung@us.ibm.com
Weisi	Lin	Nanyang Technological University	wslin@ntu.edu.sg
Nam	Ling	Santa Clara University	nling@scu.edu
Bin-Da	Liu	National Cheng Kung University	bdliu@mail.ncku.edu.tw
Alexander	Loui	Kodak Research Labs	alexander.loui@kodak.com

Chun-Shien	Lu	Institute of Information Science, Academia Sinica	lcs@iis.sinica.edu.tw
Enrico	Magli	Politecnico di Torino	enrico.magli@polito.it
Wen-Hsiao	Peng	National Chiao Tung University	pawn@mail.si2lab.org
Yong	Rui	Microsoft China	yongrui@microsoft.com
Yun Q.	Shi	New Jersey Institute of Technology	shi@njit.edu
Thanos	Stouraitis	University of Patras	thanos@upatras.gr
Ming Ting	Sun	University of Washington	sun@ee.washington.edu
Min-Jen	Tsai	National Chiao Tung University	mjtsai@cc.nctu.edu.tw
Anthony	Vetro	Mitsubishi Electric Research Labs	avetro@merl.com
Chai Wah	Wu	IBM T. J. Watson Research Center	chaiwahwu@ieee.org
Feng	Wu	Microsoft Research Asia	fengwu@microsoft.com
Chua-Chin	Wang	National Sun Yat-Sen University	ccwang@ee.nsysu.edu.tw
WeiQi	Yan	Queen's University Belfast, UK	w.yan@qub.ac.uk
Jar-Ferr (Kevin)	Yang	National Cheng Kung University	jfyang@ee.ncku.edu.tw
Bo	Zhou	Qualcomm Inc.	bzhou@qualcomm.com
Wenwu	Zhu	Microsoft Research Asia	wenwuzhu@microsoft.com
Jian	Zhang	National ICT Australia	Jian.zhang@nicta.com.au

#### 4. New Member Nominations:

<p>Proposer: Chia-Wen Lin</p> <p>Name: <b>Prof. Weiyao Lin</b></p> <p>Institution: Department of Electronic Engineering, Shanghai Jiao Tong University</p> <p>IEEE Member: Yes.</p> <p>CAS Member:</p> <p>Attending Meeting:</p> <p><b>Biography:</b></p> <p>Weiyao Lin received the B.Eng. and M.Eng. degrees from Shanghai Jiao Tong University, Shanghai, China, in 2003 and 2005, respectively, and the Ph.D. degree from the University of Washington, Seattle, USA in 2010, all in electrical engineering. During 2006 to 2010, he worked as research interns at Motorola Labs, San Diego, USA, RealNetworks, Seattle, USA, and Thomson Technology, Princeton, USA.</p> <p>Since 2010, he has been an assistant professor with the Department of Electronic Engineering, Institute of Image Communication and Information Processing, Shanghai Jiao Tong University, Shanghai, China. He has authored or coauthored over 30 technical papers. He holds two 2 issued US patents and has 1 under-reviewing US patent. His research interests include video content analysis, machine learning, computer vision, data mining, video coding and transmission.</p> <p>Dr. Lin is a member of IEEE, a member of ACM, a member of CCF (Chinese Computer Federation), and a member of IEEE Multimedia Communications Technical Committee (MMTC). He has served as a co-chair of the SJTU-HYU joint workshop in 2010, a guest editor of special issue for the Journal of Visual Communication and Image Representation, a special session organizer for VCIP 2011, a technical program committee member of IEEE ICME in 2010 and 2011, and a reviewer for multiple journals and conferences.</p>
<p>Proposer: Chia-Wen Lin</p> <p>Name: <b>Prof. Zhenzhong Chen</b></p> <p>Institution: Nanyang Technological University (NTU), Singapore</p> <p>IEEE Member: Yes.</p> <p>CAS Member:</p> <p>Attending Meeting:</p> <p><b>Biography:</b></p> <p>Zhenzhong Chen (S'02-M'07) received the Ph.D. degree from Chinese University of Hong Kong (CUHK) in 2007.</p> <p>He is currently a Lee Kuan Yew Research Fellow and Principal Investigator at Nanyang Technological University (NTU), Singapore. Before joining NTU, he was an ERCIM fellow at</p>

National Institute for Research in Computer Science and Control (INRIA), France. He held visiting positions at Polytech'Nantes, France, Universite Catholique de Louvain (UCL), Belgium, and Microsoft Research Asia, Beijing. His current research interests include visual perception, visual signal processing, and multimedia communications. He has authored or coauthored over 20 journal papers, including more than 10 IEEE TCSVT/TMM/TIP papers and one Top 10 Cited (articles published in the last five years) paper on Signal Processing: Image Communication (2010), and over 30 conference papers, including 3 invited papers.

He is a voting member of IEEE Multimedia Communications Technical Committee (MMTC), an invited member of IEEE MMTC Interest Group of Quality of Experience for Multimedia Communications (QoEIG) (2010-2012). He has served as a guest editor of special issues for IEEE MMTC E-letter and Journal of Visual Communication and Image Representation. He has co-organized several special sessions at international conferences, including IEEE ICIP 2010, IEEE ICME 2010, and VCIP 2011, and has served as a technical program committee member of IEEE ICC (2011-12), GLOBECOM (2010-11), ICME (2010-11), CCNC (2010-12), etc. He received CUHK Faculty Outstanding Ph.D. Thesis Award, Microsoft Fellowship, and ERCIM Alain Bensoussan Fellowship. He is a member of IEEE CAS.

Proposer: Jianfei Cai

Name: Prof. **Dong Xu**

Institution: Nanyang Technological University (NTU), Singapore

IEEE Member: Yes.

CAS Member:

Attending Meeting:

**Biography:**

Dong Xu is currently an assistant professor at Nanyang Technological University (NTU) in Singapore. He received the B.Eng. and PhD degrees from University of Science and Technology of China (USTC), in 2001 and 2005, respectively. During his PhD study, he worked at Microsoft Research Asia and The Chinese University of Hong Kong for more than two years. He also worked at Columbia University for one year as a postdoctoral research scientist.

Dr. Xu is an internationally well recognized young researcher in the area of computer vision and multimedia information processing. He is currently leading a research group with more than ten Ph.D. students and research staff working on new theories, algorithms and systems for intelligent processing and understanding of visual data such as images and videos. Recently, the Ph.D. student Lixin Duan in his research group won the prestigious Best Student Paper Award in IEEE International Conference on Computer Vision and Pattern Recognition (CVPR 2010) (See <http://cvl.umiacs.umd.edu/conferences/cvpr2010/>). CVPR is an international flagship computer vision conference. The overall paper acceptance rate over recent years is about 27%. He has over 50 papers published in top tier journals and conferences including IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), IEEE Transactions on Image Processing (T-IP), IEEE Transactions on Circuits Systems for Video Technology (TCSVT),

IEEE Transactions on Systems, Man and Cybernetics, Part B (T-SMC-B), Pattern Recognition (PR), CVPR, ACM Multimedia Conference (ACM MM), International Conference on

Machine Learning (ICML) and International Joint Conference on Artificial Intelligence (IJCAI). Since 2007 (resp. 2005), Dr. Xu has consistently published research work in T-PAMI, T-IP and T-CSVT (resp. CVPR), which demonstrates his determination to maintain high quality research and keep his research work visible at the top tier conferences and journals. In total, he has published 6 T-PAMI papers, 10 T-IP papers, 9 T-CSVT papers and 15 CVPR papers. His publications have been cited in Google Scholar more than 1400 times, and his H-Index in Google Scholar is 18. His T-PAMI 2007 paper entitled "Graph Embedding and Extensions: A General Framework for Dimensionality Reduction" has received 220 citations in Web of Sciences as of April 2011. His T-SMC-B 2008 paper entitled "Discriminant Locally Linear Embedding with High Order Tensor Data" was selected by Essential Science Indicators (ESI) as one of the Hot Papers in the field of Engineering for the period of March – April 2010.

Since 2008, he has received over S\$2.8M in research grant funding, from Singapore National Research Foundation (NRF), A\*STAR, Ministry of Education (MOE), and Microsoft Research Asia (MSRA). The funding from the Singapore government and MSRA is highly competitive with acceptance rates ranging between 7% and 15%. Moreover, the Ph.D. students Yi Huang and Lixin Duan in his research group were awarded the prestigious Microsoft Research Asia (MSRA)

Fellowship Awards in 2008 and 2009, respectively. The recipients are selected from top Asian universities after undergoing a highly competitive evaluation process. Only four and five winners from top universities in Singapore and Australia received MSRA Fellowship Awards in 2008 and 2009, respectively.

Dr. Xu is an associate editor of Neurocomputing (Elsevier) and Machine Vision and Applications Journal (Springer) and he is an editorial board member of Journal of Multimedia (Academy). He is currently serving as the guest editor of a forthcoming special issue on Social Media in ACM Transactions on Multimedia Computing, Communications and Applications (ACM TOMCCAP) and a forthcoming special issue on Visual Content Identification and Search in IEEE Multimedia. He has also served as the guest editor of three special issues on Video and Event Analysis in TCSVT,

Computer Vision and Image Understanding (CVIU) and Pattern Recognition Letters (PRL). He will serve as the program co-chair of The 2012 Pacific-Rim Conference on Multimedia (PCM 2012) in Singapore as well as the area chair of CVPR 2012. Dr. Xu is a member of IEEE SMC Society Technical Committee on Cognitive Computing. He has served as the workshop co-chair of The ACM SIGMM Workshop on Social Media and The IEEE International Conference on Multimedia & Expo (ICME) 2010 Workshop on Visual Content Identification and Search, a Track Chair of ICME 2009, and a Theme Chair of Pacific-Rim Symposium on Image and Video Technology (PSIVT) 2009. Moreover, he has regularly served as a reviewer for leading computer vision and multimedia journals including T-PAMI, T-IP, TCSVT,

ACM TOMCCAP and IEEE Transactions on Multimedia (T-MM). He has also served on the program committees of the major computer vision and multimedia conferences including ICCV 2007, 2009, 2011, CVPR 2008, 2009, 2010, 2011, ECCV 2010, and ACM MM 2009, 2010, 2011.

Proposer: Yong Rui

Name: Prof. **Yan Shuicheng**

Institution: National University of Singapore

IEEE Member: Yes.

CAS Member:

Attending Meeting:

**Biography:**

Dr. Yan Shuicheng is currently an Assistant Professor in the Department of Electrical and Computer Engineering at National University of Singapore, and the founding lead of the Learning and Vision Research Group (<http://www.lv-nus.org>). Dr. Yan's research areas include computer vision, multimedia and machine learning, and he has authored or co-authored over 200 technical papers over a wide range of research topics. He is an associate editor of IEEE Transactions on Circuits and Systems for Video Technology, and has been serving as the guest editor of the special issues for TMM and CVIU. He received the Best Paper Awards from ACM MM'10, ICME'10 and ICIMCS'09, the winner prize of the classification task in PASCAL VOC'10, the honorable mention prize of the detection task in PASCAL VOC'10, 2010 TCSVT Best Associate Editor (BAE) Award, and the co-author of the best student paper awards of PREMIA'09 and PREMIA'11.

## 5. Accomplished Technical Activities (May 2010 to May 2011)

### Conference organizations:

- ISCAS 2011 (Track Chair= Chai Wah Wu, Yen-Kuang Chen, Ching-Yung Lin, Session Chair= Chia-Wen Lin, Session Chair and Organizer= Chai Wah Wu, Session Co-Chair= Anthony TS Ho, RCM = Anthony TS Ho, Anthony Vetro, Bin-Da (Brian) Liu, Bo Zhou, C.-C. Jay Kuo, Cai Jianfei, Chin-Feng Lai, Chris Lee, Chung-Hsien Wu, Chun-Shien Lu, Enrico Magli, Feng Wu, Heung-Kyu Lee, Houqiang Li, Huang Qingming, Jeng-Shyang Pan, Jie Liang, Jinsang Kim, JongWon Kim, Lap-Pui Chau, Lekha Chaisorn, Liang-Gee Chen, Lin Weisi, Ling Guan, Min-Jen Tsai, Mladen Berekovic, Mohammad Ibrahim, Oscar.T.-C. Chen, Oscar Au, Philipp Zhang, Po Lai-Man, Ray Huang, Rong-Jian Chen, Sen-ching Samson Cheung, Shao-Yi Chien, Supavadee Aramvith, Tan Yap Peng, Tian-Sheuan Chang, Timothy K. Shih, WeiQi YAN, Wen-Hsiao Peng, Wen-Liang Hwang, Xian-Sheng Hua, Yong Rui, Zeng, Wenjun, Zicheng Liu, Zixiang Xiong, Mladen Berekovic, Jian Zhang, Reviewer= Chua-Chin Wang)

- ICME 2010 (Steering Committee Member= Ching-Yung Lin, General Chair= Oscar Au, Exhibition Chair= Shao-Yi Chien, Panel Chair= Chang Wen Chen, Session Chair: Shao-Yi Chien, Registration Chair= Jianfei Cai, Supavadee Aramvith, Workshop Co-Chair= Alexander Loui, Technical Program Co-Chair= Chia-Wen Lin, Ming-Ting Sun, International Liaison Co-Chair= Weisi Lin, Local arrangement co-chair= Lap-Pui Chau, TPC Co-Chair: Homer H. Chen, TPC special sessions chair = Feng Wu, American Liaison = Ching-Yung Lin, TPC= C.-C. Jay Kuo, Yong Rui, Sen-ching Samson Cheung, Shao-Yi Chien, Yen-Kuang Chen, Oscar C. Au, Publicity Chair=Jian Zhang, Reviewer= Anthony Vetro)
- APSIPA ASC 2010 (Special Session Organizer= Wen-Hsiao Peng, Special Session Co-Chair= Alexander Loui, Technical Program Co-Chair: Nam Ling, TPC= C.-C. Jay Kuo, Oscar C. Au, Supavadee Aramvith, Jiwu Huang, PC member= Sen-ching Samson Cheung, Steering Committee member: Jiwu Huang, Panel Session Organizer= Jiwu Huang, Publicity Chair=Jian Zhang)
- ICIP 2010 (Special Session Chair= Oscar Au, Special session co-chair= Lap-Pui Chau, Track Chair= Oscar C. Au, TPC= Oscar C. Au, Reviewer= Bo Zhou, Gwo Giun (Chris) Lee, Jiwu Huang)
- IWDW 2010 (Co-Technical chair= Yun Q. Shi, International Publicity Chair = Anthony TS Ho, TPC= C.-C. Jay Kuo, Jiwu Huang)
- IWDW 2011 (European Liaison Chair= Anthony TS Ho, Asia Liaison=Jiwu Huang)
- MMSP 2010 (TPC= Yen-Kuang Chen, Oscar C. Au, Reviewer= Gwo Giun (Chris) Lee)
- PCM 2010 (General Conference Co-Chair= C.-C. Jay Kuo, European Liaison Chair= Anthony TS Ho, TPC= Oscar C. Au)
- PrimeAsia 2010 (International Advisor= Bin-Da Liu, TPC= Oscar C. Au)
- SiPS 2010 (TPC Chair= Yen-Kuang Chen, TPC: Shao-Yi Chien, Tian Sheuan Chang, Reviewer= Gwo Giun (Chris) Lee)
- The ACM Multimedia 2010 (Publicity Chair= Yong Rui, Tutorial Co-Chair= Alexander Loui, TPC= C.-C. Jay Kuo, Wenwu Zhu)
- VCIP 2010 (Program Chair= Gwo Giun (Chris) Lee, Program Co-Chair= Houqiang Li, Feng Wu, TPC= C.-C. Jay Kuo, Anthony Vetro, Bo Zhou, Anthony TS Ho, Oscar C. Au, PC Member= Jianfei Cai)
- 3DTV-CON 2010(TPC= Oscar C. Au)
- 5th International Conference on Embedded and Multimedia Computing, 2010 (TPC= Yong Rui)
- II-HMSP 2010 (TPC= Anthony TS Ho, Supavadee Aramvith)
- ACM MM 2010 Workshop on Mobile Cloud Media Computing (General Chair= Chang Wen Chen)
- A-SSCC 2010 (TPC= Shao-Yi Chien)
- APCC 2010 (TPC= Bo Zhou)
- APCCAS 2010 (Track Chair of Multimedia Systems and Application= Jar-Ferr Yang, Track Chair & Reviewer= Chua-Chin Wang, Technical Program Co-Chair= Nam Ling)
- ASP-DAC2011 (University Design Contest member= Tian Sheuan Chang)
- AVSS 2010 (TPC= Sen-ching Samson Cheung)
- BMSB 2010 (TPC= Bo Zhou)
- CAS-FEST 2010 (General Chair= Thanos Stouraitis)
- CCECE 2010 (TPC= Oscar C. Au)
- CFAF 2011 (TPC= Anthony TS Ho)
- CHINACOM 2010 (TPC= Bo Zhou)
- CIS, ICC 2010 (TPC= Bo Zhou)
- CTS, ICC 2010 (Reviewer= Bo Zhou)
- ICC Adhoc, Sensor and Mesh Networking Symposium 2011 (TPC= Jie Liang)
- ICC Wireless Networking Symposium 2011 (TPC= Jie Liang)
- SPS, ICC 2010 (Reviewer= Bo Zhou)
- EUSIPCO 2010 (TPC= C.-C. Jay Kuo)
- IEEE GLOBECOM 2010 (TPC= Bo Zhou, Oscar C. Au)
- IEEE GLOBECOM 2010 - Wireless Communications Symposium (TPC= Jie Liang)
- IEEE GLOBECOM 2010 - Ad-hoc and Sensor Networking Symposium (TPC= Jie Liang)
- IEEE GLOBECOM 2010 Workshop on Next Generation Mobile Networks: Packet Core Evolution and Seamless Multimedia Application Platforms (TPC= Supavadee Aramvith)
- ICAIT 2010 (International Advisory Committee Member= Anthony TS Ho)
- ICAIT 2011 (Honorary Co-Chair= Anthony TS Ho)
- ICASSP 2011 (TPC= Oscar C. Au, Reviewer= Gwo Giun (Chris) Lee)
- ICCAS 2010 (Co-Chair of TPC= Bin-Da Liu)
- ICDP 2011 (Organising Committee Member= Anthony TS Ho)
- ICDS 2010 (Session Chair= Sen-ching Samson Cheung)

- ICECS 2010 (General Chair= Thanos Stouraitis)
- ICIAR 2011 (Chair of Local Organizing Committee= Jie Liang)
- ICICS 2011 (TPC= Anthony TS Ho)
- ICIEA 2010 (International Advisory Committee Member= C.-C. Jay Kuo)
- ICSPCS 2010 (Reviewer= Bo Zhou)
- ICUIMC 2011 (TPC= C.-C. Jay Kuo)
- IEEE 25th Queen's Biennial Symposium on Communications (TPC= Jie Liang)
- IEEE International Conference on Semantic Computing 2010 (Industry Co-Chair= Alexander Loui)
- IEEE International Conference on Multimedia and Expo 2010 (Publicity Chair: Jar-Ferr Yang)
- IEEE International Conference on Research, Innovation and Vision for the Future on Computing and Communication Technologies 2010 (IEEE-RIVF'10) (PCM= Supavadee Aramvith)
- IEEE Inter. Conf. on IC Design and Technology 2011 (Conference Chair= Chua-Chin Wang)
- IEEE Visual Communication and Image Processing 2010 (Special Session Co-Chair: Jar-Ferr Yang)
- IEEE Workshop on Advances in Automated Multimedia Surveillance for Public Safety (Program Chair= WeiQi Yan)
- IEICE 2010 International Workshop on Smart Info-Media Systems in Asia (SISA) (International Advisory Board= Supavadee Aramvith)
- International Computer Symposium (ICS) 2010 (General Co-Chair= Yueh-Min Huang)
- IWCMC 2010 (General Chair= Yueh-Min Huang)
- IMAGAPP 2010(TPC= Oscar C. Au)
- IMSA 2011 (IPC = C.-C. Jay Kuo)
- INFOCOM 2011(TPC= Wenwu Zhu)
- International Conference on Internet Multimedia Computing and Services 2010 (General Chair= Yong Rui)
- International Symposium on Health Informatics (IHI) (Founding Steering Committee Chair= Ching-Yung Lin)
- Inter Symp. On Next-generation Electronics 2010 (General Chair= Chua-Chin Wang)
- 
- International Conference on Emerging Signal Processing Applications (ESPA) (Steering Committee Member and Panel & Plenary Chair 2012= Ching-Yung Lin)
- International Computer Symposium (ICS) 2010 (General Co-Chair= Yueh-Min Huang)
- IPTA'10 (TPC= Bo Zhou)
- ISCIT 2010 (Technical Program Co-Chairs= Supavadee Aramvith, TPC= Oscar C. Au)
- ISITA 2010 & ISSSTA 2010 (TPC= Bo Zhou)
- ISPACS 2010 (International Steering Committees= Supavadee Aramvith, Technical program co-chair: Lap-Pui Chau)
- ISSPA (Reviewer= Bo Zhou)
- ISSPIT 2010 (Reviewer= Bo Zhou)
- IWCMC 2010 (TPC= Bo Zhou)
- IWSSIP'10 (Reviewer= Bo Zhou)
- MONET 2010 (TPC= C.-C. Jay Kuo)
- MMSS 2010 (Program Chair= WeiQi Yan)
- MiFor 2010 (TPC= Anthony TS Ho)
- Packet Video Workshop (PV 2010) (General Chair= Oscar Au)
- PIMRC 2010 (TPC= Bo Zhou)
- SASIMI 2010 (TPC= Shao-Yi Chien)
- SIGMAP 2010 (TPC= Oscar C. Au)
- SMC 2010 (IPC = Bin-Da Liu)
- SPIE Conference on Parallel Processing for Imaging Applications, 2011 (TPC= Yen-Kuang Chen)
- ICECS (Steering Committee Member= Thanos Stouraitis)
- The International Conference on Information and Communication Technology Convergence (ICTC), 2010 (ISC= C.-C. Jay Kuo)
- VLSI-DAT 2011 (TPC= Shao-Yi Chien, Chua-Chin Wang)
- VLSI Design/CAD Symposium 2010 (Steering Committee= Chua-Chin Wang, TPC= Shao-Yi Chien)
- VTC2010-Spring (Reviewer= Bo Zhou)
- WCNC 2011 (TPC= Jie Liang)
- WCSP 2010 (TPC= Bo Zhou)
- WIFS 2010 (TPC= C.-C. Jay Kuo)

## IEEE and Other Journal Editorships:

- IEEE Transactions on Multimedia (Steering Committee= Anthony Vetro, Ching-Yung Lin, AE= Yen-Kuang Chen, Weisi Lin, Sen-ching Samson Cheung, Reviewer= Min-Jen Tsai, Tian Sheuan Chang)
- IEEE Transactions on Circuits & Systems for Video Technology (AE= Anthony Vetro, Chia-Wen Lin, Jian Zhang, Gwo Giun (Chris) Lee, Houqiang Li, Jianfei Cai, Lap-Pui Chau, Shao-Yi Chien, Wenwu Zhu, Yen-Kuang Chen, Enrico Magli, Oscar Au, Feng Wu, Mladen Berekovic, Reviewer= Tian Sheuan Chang)
- IEEE Multimedia Magazine (AE-in-Chief= Yong Rui)
- IEEE Transactions on Circuits and System I. (AE= Chua-Chin Wang, Reviewer= Tian Sheuan Chang)
- IEEE Transactions on Circuits and Systems-II, Express Briefs (AE= Bin-Da Liu, Chua-Chin Wang)
- IEEE Journal on Emerging and Selected Topics in Circuits and Systems (Senior Editor Board Member= Yen-Kuang Chen)
- IEEE Transactions on Biomedical Circuits and Systems (AE= Bin-Da Liu)
- IEEE Transactions on Information Forensics and Security (AE= C.-C. Jay Kuo, Jiwu Huang)
- IEEE Transactions on Fuzzy Systems (AE= Bin-Da Liu)
- IEEE Transactions on Communications (Reviewer= Bo Zhou)
- IEEE Transactions on Image Processing (AE= Chun-Shien Lu, Oscar Au, Reviewer= Tian Sheuan Chang)
- IEEE Transactions on Broadcasting (AE= Lap-Pui Chau)
- IEEE Transactions VLSI (Reviewer= Tian Sheuan Chang)
- IEEE Communications Letters (Reviewer= Bo Zhou)
- IEEE Communications Magazine special issue on QoE Management in Emerging Multimedia Services (Guest Editor= Chang Wen Chen)
- IEEE Signal Processing Letters (AE= Alexander Loui, Lap-Pui Chau, Weisi Lin)
- IEEE Signal Processing Magazine (Editor Board Member= Yen-Kuang Chen)
- IEEE Technology News (AE= Lap-Pui Chau)
- ACM TECS (Guest Editor= Mladen Berekovic)
- ACM TOMCCAP (AE= Yong Rui)
- ACM Trans. Embedded Computing System (Reviewer= Tian Sheuan Chang)
- American Statistical Association Journal on Statistical Analysis and Data Mining (AE= Sen-ching Samson Cheung)
- Book Series in Multimedia Computing, Communication and Intelligence (Editor-in-Chief= Chang Wen Chen)
- Circuits, Systems and Signal Processing (CSSP) (AE= Shao-Yi Chien)
- Data Hiding and Multimedia Security (Editor-in-Chief= Yun Q. Shi, AE=Jiwu Huang)
- Electronics Letters (Reviewer= Bo Zhou)
- Elsevier MICPRO (AE= Mladen Berekovic)
- ETRI Journal (Reviewer= Tian Sheuan Chang)
- European Transactions on Telecommunications (Reviewer= Bo Zhou)
- EURASIP Journal on Advances in Signal Processing (AE= Jar-Ferr Yang, Reviewer= Tian Sheuan Chang)
- EURASIP Journal on Information Security (AE= Sen-ching Samson Cheung, Jiwu Huang)
- EURASIP Research Letters in Signal Processing (AE= Jar-Ferr Yang)
- EURASIP (Reviewer= Gwo Giun (Chris) Lee)
- IEICE Electronics Express (Reviewer= Tian Sheuan Chang)
- IEICE Transactions on Electronics (AE= Chua-Chin Wang)
- IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (Reviewer= Bo Zhou)
- IEICE NOLTA (AE= Chai Wah Wu)
- IEICE NOLTA Special Issue on Synchronization (Guest Editor= Chai Wah Wu)
- IET Signal Processing (Editorial Board Member= Jar-Ferr Yang)
- International Journal of Automation and Technology (Editorial Board Member= Jar-Ferr Yang)
- International Journal of Bifurcation and Chaos (Guest AE= Chai Wah Wu)
- International Journal of Circuit Theory and Applications (Guest Editor= Chai Wah Wu)
- International Journal of Multimedia Communications (Lead Guest Editor for Special Issue= Gwo Giun (Chris) Lee)
- International Journal of Multimedia Intelligence and Security (InderScience) (Editorial Board= Anthony TS Ho)

- International Journal of Digital Crime and Forensics(IGI)(Co-Editor-in-Chief= Anthony TS Ho, AE= WeiQi Yan)
- International Journal of Smart Sensing and Intelligent System (Editor-in Chief= Yueh-Min Huang)
- Journal of Communication Systems (AE= Yueh-Min Huang)
- Journal of Data Acquisition and Processing (JDAP) (Member of Editorial Board= Oscar Au)
- Journal of Electrical and Computer Engineering (AE= Bin-Da Liu)
- Journal of Franklin Institute (JFI) (Member of Editorial Board= Oscar Au)
- Journal of Information Hiding and Multimedia Signal Processing (AE= Yun Q. Shi, Supavadee Aramvith)
- Journal of Signal Processing Systems (AE= Gwo Giun (Chris) Lee, Reviewer= Gwo Giun (Chris) Lee)
- Journal of Multimedia (Academy Publisher) (Chair & Editorial Advisory Board= Chang Wen Chen, AE= Houqiang Li, WeiQi Yan, Member of Editorial Board= Oscar Au)
- Journal of Visual Communication and Image Representation (Co-Editor-in-Chief= C.-C. Jay Kuo, AE= Chia-Wen Lin, Weisi Lin)
- Journal of VLSI Signal Processing (AE= Chua-Chin Wang)
- Journal of Zhejiang University Science C (Computers & Electronics) (Reviewer= Bo Zhou)
- Journal on Emerging and Selected Topics in Circuits and Systems (Senior Editor= Chang Wen Chen)
- Journal on Selected Areas in Communications special issue on QoE-Aware Wireless Multimedia Systems (Guest Editor= Chang Wen Chen)
- Multidimensional Systems and Signal Processing (AE= Yun Q. Shi)
- Security and Communication Networks (AE= C.-C. Jay Kuo)
- Springer LNCS Transactions on Data Hiding and Multimedia Security (Editor= C.-C. Jay Kuo)(Member of Editorial Board: Oscar Au)
- Springer Journal of Signal Processing Systems (Editor Board Member= Yen-Kuang Chen)
- SPIE/IS&T Journal of Electronic Imaging (AE= Alexander Loui)
- Special Issue on ICME, IEEE Transactions on Multimedia (Guest Editor= Chia-Wen Lin, Co-Guest-Editor= Ming-Ting Sun)
- Special Issue on Recent Advances in Analysis and Processing for Distributed Video Systems, Journal of Visual Communications & Image Representation (Managing Guest Editor= Chia-Wen Lin)
- Special Issue on Journal of Signal Processing Systems for Signal, Image, and Video Technology (Guest Co-Editor= Nam Ling)
- Special Issue on Emerging Techniques for High Performance Video Coding, Journal of Visual Communication and Image Representation (Co-Guest-Editor= Ming-Ting Sun)
- Special Issue on "Cloud Computing and Dynamic Resource Allocation for Multimedia Applications", International Journal of Digital Multimedia Broadcasting (Guest Editor= Wenwu Zhu)
- Wireless Communications and Mobile Computing (AE= Yueh-Min Huang)

**Distinguished Lecturer:**

N/A

**Keynote Speeches:**

- Keynote Speaker: 2010 IEEE Asia Pacific Conference on Circuits and Systems(APCCAS 2010), December 6 – 9,2010, Kuala Lumpur, Malaysia: <Bin-Da Liu>
- Keynote Speaker: the 17th International Conference on MultiMedia Modeling (MMM), January 5-7, 2011, Taipei, Taiwan: <C.-C. Jay Kuo>
- Keynote Speaker: the Workshop of the MultiMedia Working Group (MMWG), Mediatek Inc., November 17, 2010, Hsinchu, Taiwan: <C.-C. Jay Kuo>
- Keynote Speaker: the 7th International Forum of Digital TV & Wireless Multimedia Communication, November. 11, 2010, Shanghai, China: <C.-C. Jay Kuo>
- Distinguished Invited Lecture Speaker: IEEE ICIEA 2010: <Nam Ling.>
- Keynote Speaker: Pacific Rim Multimedia 2010 : <Yong Rui>
- Keynote Speaker: QoEIG, IEEE Multimedia Communications Technical Committee (MMTC), 2011: <Weisi Lin>
- Keynote Speaker: The 4th North-East Asia International Conference on Engineering and Technology Education, 2011: <Yueh-Min Huang>
- Keynote Speaker: "Digital Watermarking", ICAIT 2010, July 2010: < Anthony TS Ho >
- Keynote Speaker: Second International Conference on Internet Multimedia Computing and Service,



2010: < Oscar Au>

- Invited talk: “Digital Watermarking and Image Forensics”, Department Seminar of Chinese University of Hong Kong, July 2010: < Anthony TS Ho >
- Invited talk: “Digital Watermarking and Image Forensics”, Department Seminar of University of Kent, UK, July 2010: < Anthony TS Ho >
- Invited talk: “Digital Watermarking and Image Forensics”, New Technology Evening, Jan 2011: < Anthony TS Ho >
- Tutorial Speaker, IEEE Int’l Conf. on Image Processing (ICIP), 2010: <Weisi Lin>
- Tutorial Speaker, ICME 2010 <Yen-Kuang Chen>
- Keynote Speaker: “Smart Interactive Home Appliances for Smart Living in a Smart City” IEEE the Seventh International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP 2011), October 2011, Dalian, China: < Jar-Ferr Yang >
- Keynote Speaker: “Advancing Multimedia Technologies for Smart Living and Learning Services”, IEEE 18th International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS2010), December 2010, Chengdu, China: < Jar-Ferr Yang >
- Keynote Speaker: “Interactive Multimedia for Innovated Smart Living Technologies: The Development of Smart NCKU Town”, The First International Conference on Pervasive Computing, Signal Processing and Applications (PCSPA 2010), September 2010, Harbin, China: < Jar-Ferr Yang >
- Keynote Speaker: VCIP2011, IEEE Visual Communications and Image Processing, November 2011: < Chang Wen Chen >
- Keynote Speaker: The First Huawei Workshop on Multimedia Processing and Computing in Cloud, April 2011: < Chang Wen Chen>
- Plenary Speaker: 2010 IEEE Globecom, December 2010: < Chang Wen Chen >
- Keynote Speaker: ICME2010 Workshop on IPTV Technologies and Multidisciplinary Applications, July 2010: < Chang Wen Chen>
- Keynote Speaker: International Conference on Ubi-media Computing (U-Media) 2010, July 2010: < Chang Wen Chen>

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

- IEEE CAS, MSA TC, 2010-2011, Chair: <Ching-Yung Lin>
- IEEE CAS, MSA TC, 2010-2011, Secretary: <Yen-Kuang Chen>
- IEEE CAS TC on Multimedia Systems and Applications (MSATC), Past Chairman: < Oscar Chi-Lim Au>
- IEEE Rochester Section 2010 – 11, Chair: <Alexander Loui>
- IEEE R1 BOG 2010 – 11, Voting Member: < Alexander Loui>
- CAS BoG 2010-2011: <Chai Wah Wu>
- IEEE Communication Society, Multimedia Communications Technical Committee 2010: <Sen-ching Samson Cheung>
- CAS Joint Vancouver/Victoria Chapter, Secretary: <Jie Liang>
- ICIEA 2010, VCIP 2010, ICME 2010, SiPS 2010, ICCE 2011, TPC Committee Member: <Nam Ling.>
- ICIEA 2010, International Advisory Committee Member: <Nam Ling.>
- CAS Beijing Chapter, Chair: <Wenwu Zhu>
- IEEE ,Technical Expert: <Wenwu Zhu>
- Signal Processing Chapter, IEEE North Jersey Section, Chair: < Yun Q. Shi>
- IEEE CAS, Technical Committee on Circuits & Systems for Communications (TC-CASC), 2010-2012, Chair: <Lap-Pui Chau>
- IEEE Tainan Section, Chairman: < Jar-Ferr Yang >
- IEEE Tainan Section, Secretary: <Yueh-Min Huang>
- IEEE CAS TC on Visual Signal Processing and Communications (VSPC), Member: <Oscar Chi-Lim Au, Feng Wu >
- IEEE CAS TC on Digital Signal Processing (DSPTC), Member: <Oscar Chi-Lim Au>
- IEEE SP TC on Multimedia Signal Processing (MMSP), Member: <Oscar Chi-Lim Au, Yen-Kuang Chen, Feng Wu >
- IEEE SP TC on Image, Video and Multi-dimensional Signal Processing (IVMSP), Member: <Oscar Chi-Lim Au>
- IEEE COM TC on Multimedia Communications (MMTC), Member: <Oscar Chi-Lim Au>
- Steering Committee, IEEE Int. Conf. on Multimedia and Expo (ICME), Member: <Oscar Chi-Lim Au>
- APSIPA (Asia Pacific Signal and Information Processing Association), Board of Governor: <Oscar Chi-Lim Au, Jiwu Huang >

- IEEE CASS, President Elect: <Thanos Stouraitis>
- IEEE Region 10 Executive Committee (2011-2012), Educational Activities Coordinator: <Supavadee Aramvith>
- IEEE Region 10 Humanitarian Technology Affinity Group Committee (2011-2012): <Supavadee Aramvith>
- IEEE Educational Activities Board (EAB) Sections Outreach Committee (2011-2012): <Supavadee Aramvith>
- IEEE CASS Guangzhou Chapter Chair: <Jiwu Huang>
- IEEE ICME Steering Committee: < Chang Wen Chen >
- IEEE NSYSU Student Branch Consult Professor: < Chua-Chin Wang >
- VSPC Track in ISCAS 2011, Chair: < Shipeng Li >
- IEEE CAS, VSPC TC Chair: < Shipeng Li >
- IEEE TCSVT, AE: < Shipeng Li >
- ICME 2011, Reviewer: < Shipeng Li >

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

- IEEE Fellow (Class of 2011) -- <Anthony Vetro, Shipeng Li >
- IEEE Best Associate Editor Award for Transaction on CSVT, 2010 -- <Gwo Giun (Chris) Lee, Yen-Kuang Chen>
- Holder of the 2010-11 Fulbright-Nokia Distinguished Chair in Information and Communications Technologies (awarded by the Fulbright program and the Nokia Foundation) -- <C.-C. Jay Kuo>
- PhD Thesis Advisor of the Best Dissertation Award – Best Experimental Work, the USC Viterbi School of Engineering, May 2010 -- <C.-C. Jay Kuo>
- University Endowed Chair Professor -- <Nam Ling.>
- 2010 Best Paper Award, International Journal of Handheld Computing Research -- <Wenwu Zhu>
- Innovators Award 2010 by New Jersey Inventors Hall of Fame (NJIHOF) for Innovations in Digital Forensics and Security -- < Yun Q. Shi >
- Thomas Alva Edison Patent Award by Research and Development Council of New Jersey -- < Yun Q. Shi >
- Best paper Award: The 3rd International Conference on Human-centric Computing (HumanCom-2010) -- <Yueh-Min Huang>
- Taiwan IC design society, Outstanding Young Scholar, 2010 -- <Tian Sheuan Chang>
- British Computer Society, UK, Fellow, FBCS, 2011-- < Anthony TS Ho>
- 2010 best paper award of IEEE Transactions on Geoscience and Remote Sensing, Recipient -- <Enrico Magli>
- Honorary Hans Fisher Senior Fellow, Institute for Advanced Study, Technical University of Munich-- < Chang Wen Chen >
- Humboldt Research Award, Alexander von Humboldt Foundation-- < Chang Wen Chen >
- IEEE CAS Fellow-- < Chang Wen Chen >
- SPIE Fellow-- < Chang Wen Chen >

#### **Upcoming Event and Future Conference Activities**

- ICME 2011 (Technical Program Co-Chair= Alexander Loui, Jianfei Cai, Track Chair= Shao-Yi Chien, Enrico Magli, TPC= C.-C. Jay Kuo, Chia-Wen Lin, Shao-Yi Chien, Tian Sheuan Chang, Oscar C. Au, Wen-Hsiao Peng, Jie Liang, PC Member= Mladen Berekovic)
- ICME 2011 Workshop on Streaming and Media Communications (TPC Chair= Chang Wen Chen)
- ICME 2012 (General Chair= Jian Zhang, Technical Program co-chair= Enrico Magli)
- ICICS 2011 (Special session chair= Lap-Pui Chau, International Advisory Committee= C.-C. Jay Kuo)
- WIFS'11 (Technical Chair= C.-C. Jay Kuo)
- VCIP 2011 (General Chair: Jar-Ferr Yang, Publicity Co-Chair= Chia-Wen Lin, Demo Co-Chairs= Shao-Yi Chien, Technical Program Co-Chair= Wen-Hsiao Peng, Gwo Giun (Chris) Lee, Tutorial speaker= Yen-Kuang Chen, TPC= C.-C. Jay Kuo, Anthony Vetro , Oscar C. Au)
- IWDW 2011 (Co-Technical chair= Yun Q. Shi, TPC= C.-C. Jay Kuo)
- APSIPA ASC 2011 (Conference Co-Chair= C.-C. Jay Kuo, TPC= Oscar C. Au)
- MONET 2011(TPC= C.-C. Jay Kuo)
- IIH-MSP 2011 (Honorary Co-Chair= C.-C. Jay Kuo)
- The CAD/Graphics Conference 2011 (TPC= C.-C. Jay Kuo)
- EUSIPCO 2011 (TPC= C.-C. Jay Kuo)

- CPAF 2011 (TPC= C.-C. Jay Kuo)
- GSP 2011(TPC= C.-C. Jay Kuo)
- ICIEA 2011(International Advisory Committee (IAC) Member= C.-C. Jay Kuo)
- ICIEA 2012 (Keynote Speaker= Nam Ling)
- BioCAS 2011 (RCM= Bin-Da Liu)
- ACM Multimedia (Sponsorship Chair= Yong Rui)
- International Symposium on Circuits & Systems 2013 (Demo Sessions Chair= Anthony Vetro)
- BMSB 2011 (TPC Member= Bo Zhou)
- ICIP 2011 (Track Chair= Oscar C. Au, TPC= Oscar C. Au, Reviewer= Bo Zhou)
- VTC2011-Spring (Reviewer= Bo Zhou)
- ICDSC 2011 (Publicity Chair= Sen-ching Samson Cheung)
- MMSP 2011(Technical Program co-chair= Feng Wu, Enrico Magli, TPC= Sen-ching Samson Cheung, Yen-Kuang Chen, Oscar C. Au)
- PCM 2012 (General Chair= Jianfei Cai)
- ICASSP 2013 (Registration Chair= Jie Liang)
- ICAST 2011 (Keynote Speaker= Nam Ling)
- SiPS 2011 (TPC= Shao-Yi Chien, Yen-Kuang Chen, PC Member= Mladen Berekovic)
- A-SSCC 2011 (TPC= Shao-Yi Chien)
- ISCAS 2011 (Reviewer= Bo Zhou)
- ISCAS 2012 (Ph.D./Gold Special Session Chair= Chua-Chin Wang)
- ISCAS 2013 (General Chair= Chang Wen Chen,TPC Co-Chair= Wenwu Zhu, Member= Ming-Ting Sun, Advisor Committee= Ming-Ting Sun, International Liaisons= Ming-Ting Sun)
- MMSS 2011 (Program Chair= WeiQi Yan)
- SIGMAP 2011 (TPC= Oscar C. Au)
- 3DTV-CON 2011(TPC= Oscar C. Au)
- International Conference on Intelligent Computation and Bio-Medical Instrumentation 2011 (General Chair: Jar-Ferr Yang)
- IEEE International Symposium on Communication and Information Technology (ISCIT) 2011 (TPC= Supavadee Aramvith)
- IEEE International Symposium on Communication and Information Technology (ISCIT) 2012 (Technical Program Co-Chairs= Supavadee Aramvith)
- 6th International Conference on Image and Graphics (ICIG 2011) (General Chair= Chang Wen Chen)
- 17th IEEE International Conference on Networks (ICON2011) (Honorary Chair= Chang Wen Chen)
- APCCAS (Track Chair & Reviewer= Chua-Chin Wang)
- Inter. Conf. on IC Design and Technology (General Chair= Chua-Chin Wang)
- VLSI/CAD CAD Symp. (Steering Committee= Chua-Chin Wang)