

**2007 Annual Report**  
**IEEE CAS Visual Signal Processing and Communications (VSPC) Technical Committee**

Past Chair: Dr. Tihao Chiang, National Chiao-Tung University

Chair: Dr. Wenwu Zhu, Intel Corp.

Secretary: Prof. Yun He, Tsinghua Univ.

2007 VSPC TC meeting: 28-May-07 Monday 13:30 14:30 Napoleon - 3rd Floor, in New Orleans ISCAS2007

Attendance: (to be filled)

	Name	Organization	Email
1.	Wenwu Zhu	Intel Research China	Wenwu.zhu@intel.com
2.	Chang Wen Chen	Florida Institute of Tech	cchen@fit.edu
3.	Huifang Sun	Mitsubishi Electronic Research Lab.	hsun@merl.com
4.	Nam Ling	Santa Clara University	nling@scu.edu
5.	Yun He	Tsinghua Univ.	hey@tsinghua.edu.cn
6.	Tihao Chiang	National Chiao-Tung University	tchiang@mail.nctu.edu.tw
7.	Kai-Kuang Ma	Nanyang Technological University	ekkma@ntu.edu.sg
8.	Ling Guan	Ryerson University	lguan@ee.ryerson.ca
9.	I. Ahmad	UTA	iahmad@cse.uta.edu
10.	M. Liou	HKUST	
11.	M.T. Sun	U. of Washington	sun@ee.washington.edu
12.	Shipeng Li	MSRA	spli@microsoft.com
13.	Jar-Ferr Yang	National Cheng Kung Univ.	jfyang@ww.ncku.edu.tw
14.	Gwo Giun Lee	N · Cheng Kung Univ.	c11@mail.ncku.edu.tw
15.	Chih-Hung Kuo	N. Cheng Kung Univ.	chkuo@ee.ncku.edu.tw
16.	Zhihai He	Un. Missouri	hezhi@missouri.edu
17.	Frank Shih	New Jersey Institute of Tech	shih@njit.edu
18.	Jian Zhang	NICTA Australia	Jian.zhang@nicta.com.au
19.	Marco Mattavelli	EPFL	Marco.mattavelli@epfl.ch
20.	Yun-Qin Shi	NJIT	shi@njit.edu
21.	Zhengguo Li	Institute for Infocomm Research	ezgli@i2r.a-star.edu.sg
22.	Chia-Wen Lin	National Tsing hua Univ., Taiwan	cwlin@ee.nthu.edu.tw
23.	Enrico Magli	Politecnico di Torino, Italy	Enrico.magli@polito.it
24.	Qibing Sun	Institute for Infocomm Research	qibin@i2r.a-star.edu.sg
25.	Dapeng Oliver Wu	Univ. of Florida	wu@ece.ufl.edu
26.	Alex Kot	Nanyang Technological University	eackot@ntu.edu.sg
27.	Zhibo Chen	Thomson	chenzb@ieee.org
28.	Lu Yu	Zhejiang Univ	yul@zju.edu.cn
29.	King N. Ngan	Chinese U. of Hong Kong	knngan@ee.cuhk.edu.hk
30.	Lap-Pui Chau	Nanyang Technological University	elpchau@ntu.edu.sg
31.	Feng Wu	Microsoft Research Asia	fengwu@microsoft.com
32.	Oscar Au	HKUST	eeau@ust.hk

**1. Newly Elected IEEE Fellow from TC**

- Tsuhan Chen, Jar-Farr Yang (congratulations!)

**2. Journal Editorial Support**

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- IEEE T-CSVT 2006-2008 (EIC Chang Wen Chen; Ishfaq Ahmad, Liang-Gee Chen, Pascal Frossard, Wen Gao, Ling Guan, Zhihai He, Ebroul Izquierdo, Shipeng Li, Huifang Sun, Dapeng Oliver Wu, Wenwu Zhu);
- IEEE T-CSVT SI on Multiview Video Coding, Oct. 2007. (Yun He, Joern Ostermann, Guest Co-Editors);
- IEEE T- Multimedia 2005- (AE: Pascal Frossard, Wen Gao, Tihao Chen, Ling Guan, Kai-Kuang Ma, Qian Zhang, Lap-Pui Chau)
- IEEE T-CASI (AE: A. Kot, Tsuhan Chen)
- IEEE T-Consumer Electronics (AE: Anthony Vetro, 2002-Present)
- IEEE Communications Magazine, SI on “Advances in Visual Analysis and Adaptation for Multimedia communications”, Jan. 2007,. (Haohong Wang, King N. Ngan, Joern Ostermann, Guest Editors)
- IEEE Signal Processing Magazine (AE: Anthony Vetro, Jan 2006-Present)
- IEEE Wireless Communications Magazine, SI on Wireless Video, (Qian Zhang, Wenwu Zhu, Guest Editors)
- IEEE Multimedia Magazine (AE: Chang Wen Chen)

- IEEE Transactions on Wireless Communications, (AE: Dapeng Oliver Wu)
- IEEE Transactions on Vehicular Technology, (AE: Dapeng Oliver Wu)
- IEEE Journal on Selected Areas in Communications (JSAC), SI on Cross-layer Optimized Wireless Multimedia Communications, May 2007 , (Dapeng Oliver Wu, Guest Editor)
- IEEE Computational Intelligence Magazine (AE: Ling Guan)
- IEEE Transactions on Broadcasting (AE, Lap-Pui Chau)
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- Journal of Visual Communication and Image Representation (EIC: C.-C. Jay Kuo, 1997-Present; AE: Wen Gao, Yun He, Shipeng Li, Ching-Yung Lin, David Lin, Kai-Kuang Ma, Susanto Rahardja, Chia-Wen Lin)
- Journal of Visual Communication and Image Representation, SI on "Resource-Aware Adaptive Video Streaming", (Enrico Magli, Chia-Wen Lin, Deepak Turaga, Pascal Frossard, Guest Editors)
- LNCS Transactions on Data Hiding and Multimedia Security by Springer (Founding EIC Yun Q. Shi)
- Journal of Information Science and Engineering (C.-C. Jay Kuo, Editor 2000-Present)
- Springer LNCS Transactions on Data Hiding and Multimedia Security (C.-C. Jay Kuo, Editor 2005-Present)
- Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology (AE: Tshuan Chen , Ling Guan, Ming Ting Sun, Y.Q. Zhang)
- Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology, SI on "Hardware Implementation of Video Codec", 2007, (Yun He, Liang-Gee Chen, Guest Co-Editors)
- EURASIP JASP (C.-C. Jay Kuo, Liang-Gee Chen, Alex Kot, Jar-Ferr Yang, Yap-Peng Tan, Editorial board members)
- EURASIP JASP, SI on Video Adaptation for Heterogeneous Environments, (Chia-Wen Lin, Yap-Peng Tan, Ming-Ting Sun, Alex Kot, and Anthony Vetro, Guest Editors)
- EURASIP JASP SI on Advanced Technologies and Applications for H.264/AVC and Beyond, (Jar-Ferr Yang, Hsueh-Ming Hang, Eckehard Steinbach, Ming-Ting Sun, Guest Editors)
- EURASIP JIVP (Ling Guan, Editorial board member)
- SPIE/IS&Y Journal of Electronic Imaging (Ling Guan, Editorial board member)
- Journal of China Communications, SI on "Multimedia Communications", Oct. 2006 , (Chang Wen Chen, Wenwu Zhu)
- Journal of Wireless Communications and Wireless Computing, SI on Video communications for 4G wireless systems, , to be published in early 2007, (Haohong Wang, Guest Editor)
- Journal of Advances in Multimedia, (EIC: Dapeng Oliver Wu, July 2006 – present; AE: Chang Wen Chen, Pascal Frossard, Aggelos K. Katsaggelos, C.-C. Jay Kuo, Huifang Sun, Ming-Ting Sun, Yap-Peng Tan, Feng Wu, Ya-Qin Zhang)
- LNCS Transactions on Data Hiding and Multimedia Security (Springer), (Founding EIC: Yun-Qing Shi)
- Multidimensional Systems and Signal Processing, (AE: Yun-Qing Shi)
- International Journal on Images and Graphics, ( AE: Yun-Qing Shi)
- Inter. Journal of Pattern Recognition, (Editorial Board and Associate Editor: Frank. Y. Shih)
- Inter Journal of Pattern Recognition Letters, (Associate Editor: Frank. Y. Shih)
- Inter. Journal of Pattern Recognition and Artificial Intelligence: (Associate Editor: Frank. Y. Shih)
- Inter. Journal of Internet Protocol Technology, (Associate Editor: Frank. Y. Shih)
- Journal of Internet Technology, {Associate Editor: Frank. Y. Shih)
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### 3. International Conference Support

The committee would like to thank Prof. **Yun He**, Dr. **Anthony Vetro** and Prof. **Yap-Peng Tan** for their Track co-Chair works in this year's ISCAS 2007. The committee also would like to thank the following committee members for their kind support in paper review process and session chairs for the ISCAS 2007 conferences.

1	Ishfaq Ahmad	Computer Science and Engineering Department, University of Texas at Arlington
2	Tian-Sheuan Chang	Electronic Engineering, National Chiao-Tung University
3	Lap-Pui Chau	Electronic Engineering, National Chiao-Tung University
4	Liang-Gee Chen	Department of Electrical Engineering, National Taiwan University, Taiwan
5	Mei-Juan Chen	Electrical Engineering, National Dong Hua University, Taiwan
6	Zhibo Chen	Thomson R&D Center, Beijing

7	Tihao Chiang	National Chiao-Tung University
8	Alex Kot	Nanyang Technological University
9	Shao-Yi Chien	Electronic Engineering, National Chiao-Tung University
10	Pan Feng	Institute for Infocomm Research (I <sup>2</sup> R), Singapore
11	Pascal Frossard	Ecole Polytechnique Federale de Lausanne
12	Ling Guan	Ryerson University
13	Yun He	Electronic Engineering Department, Tsinghua University
14	Ebroul Izquierdo	University of London
15	C.-C. Jay Kuo	Department of Electrical Engineering-Systems and Signal and Image Processing Institute, USC, LA
16	Chris Lee	Electronic Engineering, National Cheng Kung University, Taiwan
17	Zhengguo Li	Institute for Infocomm Research (I <sup>2</sup> R), Singapore
18	Shipeng Li	Microsoft Research, Asia
19	Weisi Lin	Institute for Infocomm Research (I <sup>2</sup> R), Singapore
20	Kai-Kuang Ma	Nanyang Technological University, Singapore
21	Frank Shih	New Jersey Institute of Technology
22	Tung yi Shin	National Chiao-Tung University
23	Yap-Peng Tan	Division of Information Engineering, School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore
24	Alexis Michael Tourapis	Thomson Multimedia, Princeton
25	Tsung-Han Tsai	Dept. of Electrical Engineering, National Central University, Taiwan
26	Anthony Vetro	Mitsubishi Electric Research Labs, Boston
27	Haohong Wang	Qualcomm CDMA Technology, USA
28	Feng Wu	Microsoft Research, Asia
29	Jar-Ferr Yang	National Cheng Kung University
30	Vitali Zagorodnov	Computer Engineering, Nanyang Technological University, Singapore
31	Wenwu Zhu	Intel Corp., Beijing

The committee members have supported and/or will support the following international conferences.

- ISCAS 2007: (Technical Program Co-Chairs: Nam Ling)
- ISCAS2007; Special Session on Resource and Content Aware Video Streaming/Adaptation over Networks, with VSPC TC support, Chia-Wen Lin;
- ICIP 2006-2007 (Alex Kot)
- ICIP07, Tutorial, "Digital Image Forensics" (accepted), (Yun Q. Shi)
- ICME 2006, (General Co-Chair: Ling Guan; Technical Program Co-Chair: Chang Wen Chen; Committee: Liang-Gee Chen, Anthony Vetro, Joern Ostermann, Dapeng Oliver Wu)
- ICME06, Tutorial on Steganography and Steganalysis, (Yun Q. Shi)
- ICME 2007 (General Co-Chair, Wen Gao, Technical Program Chair: Yun Q. Shi, Joern Ostermann, Committee: Shipeng Li, Ming-Ting Sun, Oscar Au, Yun He, Feng Wu; Peter Pirsch, Chang-Wen Chen, Liang-Gee Chen, T. Sikora, Ming-Ting Sun, Ya-Qin Zhang);
- PCS 2007 (International Steering Committee: Tsuhan Chen, Chang Wen Chen, Pascal Frossard, Yun He, Aggelos K. Katsaggelos, Shipeng Li, Joern Ostermann, Thomas Sikora);
- VCIP 2007 (Conference Chair: Chang Wen Chen, Program Committee: Alex C. Kot, C.-C. J. Kuo, Shipeng Li, Huifang Sun, Ming-Ting Sun, Anthony Vetro)
- ICASSP 2007 (Kai-Kuang Ma)
- ICASSP06, Tutorial on Steganography and Steganalysis, (Yun Q. Shi)
- MMSP 2006-2007 (Ling Guan, Anthony Vetro, Yun He, C. C. J. Kuo, Shipeng Li)

- PV 2007, Packet Video 07, Lausanne, (General Chair: Pascal Frossard, Technical Program Committee: Tsuhan Chen, Shipeng Li, Qian Zhang);
- SIPS 2007 (General Co-chairs: Chang Wen Chen, Technical Program Co-Chairs: Xiaokang Yang, Nam Ling, Technical Program Committee: Liang-Gee Chen, Yun He, Zhengguo Li, Ching-Yung Lin, Kai-Kuang Ma, Susanto Rahardja);
- 3rd International Symposium on Multimedia over Wireless, Symposium, (Co-Chairs, Zhihai (Henry) He)
- IMAP 2007, First International Workshop on Multimedia Analysis and Processing (Workshop Co-Chairs, Chia-Wen Lin and Haohong Wang)
- IWDW06, International Workshop on Digital Watermarking 2006, (Co-Chair Yun-Qing Shi)
- IWDW07, International Workshop on Digital Watermarking 2007, (Co-Chair: Yun-Qing Shi)
- 1st ACM SIGMM Workshop on Mobile Video, in conjunction with ACM Multimedia 2007, September 28, 2007, University of Augsburg, Germany, (Changwen Chen)

**4. Invited Lectures**

- DLP: with VSPC TC support, Nam Ling is elected as Distinguished Lecturer (DL) in the DL Program of the IEEE Circuits and Systems Society;
- Keynote speaker: Yun Q. Shi, "Digital Data Forensics", IEEE Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP06), December 2006
- Plenary speaker: Wenwu Zhu, "Advances on Mobile Broadband Communications", IEEE Symposium on Radio and Wireless, Jan 2007

**5. New committee members proved in the electronic voting (43 votes out of 53 members, Jan.23, 2007- )**

- Frank Shih**, New Jersey Institute of Technology
- Ebroul Izquirdo**, University of London
- Kai-Kuang Ma**, Nanyang Technological University

**6. The committee is considering new members in the coming TC meeting in ISCAS07.**

1. **Jianghu Lu**, Tsinghua Unoversity,China  
Nominated by Chang Wen Chen
2. **Enrico Magli**, Politecnico di Torino, Turin, Italy  
Nominated by Chia-Wen Lin
3. **Qibin Sun**, Institute for Infocomm Research (I2R), Singapore  
Nominated by Yun-Qing Shi
4. **Xun Jun**, Mitsubishi Electric Research Laboratories (MERL), Cambridge, MA  
Nominated by Huifang Sun
5. **Anthony TS Ho**, University of Surrey  
Nominated by Yun-Qing Shi
6. **Lu Yu**, Zhejiang University  
Nominated by Yun He
7. **Fernando Pereira**, Instituto Superior Técnico, Lisboa, Portugal  
Nominated by Yun He
8. **Chih-Hung Kuo**, National Cheng Kung University, Tainan, Taiwa  
Nominated by Tihao Chiang
9. **Marco Mattavelli**, EPFL  
hNominated by Gwo Giun Lee

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1. Jianhua Lu, nominated by Changwen Chen

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**Jianhua Lu** received the B.S.E.E. and M.S.E.E. degrees from Tsinghua University, Beijing, China, in 1986 and 1989, respectively, and Ph.D. in Electrical & Electronic Engineering from the Hong Kong University of Science & Technology. Since 1989, he has been with the Dept. of Electronic Engineering, Tsinghua University, Beijing, China, where he now serves as a Professor. His current research interests include video/image coding for application in wireless networks, multimedia signal processing, broadband wireless communication, and satellite communication.

He has been technical lead and principal investigator for many projects, including “Research on Algorithms for High Performance Multimedia Communication and Technology for System Integration” (National 973 Key Fundamental Research Program), “System, Theory, and Application Study on New Generation Multimedia Communication over Wireless Networks” (Key Project, National Natural Science Foundation of China), “Wireless Multimedia Access Technology and Relevant Standards” (Key Project, Ministry of Education, China), “Research on Key Technologies for Deep Space Communications” (Key Project, National Natural Science Foundation of China), and so on, accomplishing innovative algorithms in cross-layered optimization for multimedia processing over wireless networks, joint source-channel coding, low-complexity channel and source coding, etc. These achievements are well recognized and found applications in relevant technical fields. He is now appointed as Director of research lab on source coding and multimedia communication of State Key Lab on Microwave and Digital communications, Deputy Director of key laboratory of Education Ministry on ubiquitous computing, Vice Chairman of academic committee of Electronic Engineering department of Tsinghua University, Associate Dean of school of aerospace of Tsinghua University. He is also elected as a member of Expert Group for National High-Tech R&D Program (863).

Dr. Lu has been an active member of professional societies and has published more than 100 technical papers in international journals and conference proceedings. He has served in numerous IEEE Conferences as member of the Technical Program Committee, and served as the Panel/Invited Session Chair of the 2003 IEEE International Symposium on Personal, Indoor and Mobile Communications, which was held in Beijing, China. He also delivered a keynote speech on Wireless Multimedia Communications at the CCF Young Computer Scientists and Engineers Forum (YOCSEF) of China in 2004. His PhD students Mr. Yin Liuguo got the first prize of excellent PhD thesis of Tsinghua University, Mr. Jiang Xianyang got the best student paper award at ChinaCom’2006. He got the National Science Fund for Distinguished Young Scholars for the years 2006-2009 for his innovative achievements in natural science.

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## 2. Enrico Magli, nominated by Chia-Wen Lin

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**Dr. Enrico Magli** received the degree in Electronics Engineering in 1997, and the Ph.D. degree in Electrical Engineering in 2001, from Politecnico di Torino, Turin, Italy. He is currently an Assistant Professor at the same university. His research interests are in the field of error-resilient image and video coding for wireless applications, joint source and channel coding, image and video security, distributed source coding, and compression of satellite images. From Mar. to Aug. 2000 he was a visiting researcher at the Signal Processing Laboratory of the Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland.

Dr. Magli is an associate editor of the EURASIP Journal on Information Security. He is a member of Multimedia Systems and Applications technical committee of the IEEE Circuits and Systems Society. He has been nominated for membership in the Visual Signal Processing and Communications technical committee of the IEEE Circuits and Systems Society. He is a member of the Data Archival and Distribution technical committee of the IEEE Geoscience and Remote Sensing Society. He is a member of the Italian delegation to the ISO (SC 29 WG 1 - JPEG), actively contributing to the JPEG standardization activities; he has been appointed co-editor of JPEG 2000 Part 11 – Wireless JPEG 2000.

Dr. Magli has been member of the Technical Program Committee for several international conferences, including IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2005 and 2006, IEEE International Conference on Multimedia & Expo (ICME) 2003 and 2006, IEEE International Conference on Image Processing (ICIP) 2003, 2004, 2005 and 2006, IEEE Workshop on Multimedia Signal Processing (MMSP) 2004, IEEE International Conference on Intelligent Information Hiding and Multimedia Signal processing (IIH-MSP) 2005 and 2006, IEEE International Conference on Circuits and Systems (ICECS) 2006, IST Mobile Summit 2005 and 2006. He has been Reviewer Committee member for the following conferences: IEEE International Symposium on Circuits and Systems (ISCAS) 2005 and 2006, IEEE International Conference on Communications (ICC) 2006. He has been session chair at several conferences. He has coauthored more than 100 scientific papers in international journals and conferences.

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## 3. Qibin Sun, nominated by Ching-Yung Lin

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**Sun Qibin, Ph.D.**

qibin@i2r.a-star.edu.sg Phone: +65-6874-6696

**Current Position**

Manager, Media Understanding Department, Media Division, Institute for Infocomm Research (I2R), Singapore.

**Education**

Ph.D., Electronic Eng., Univ. of Science & Technology of China (USTC), 1997

**Work Experience**

Jan 2002 - Present Institute for Infocomm Research (I2R), Singapore

Sep 2000 - Dec 2001 Research Scientist, Columbia University, USA

Jun 1996 - Sep 2000 Research Member, ISS/KRDL, Singapore

**Research Interests**

Multimedia security and rights management, Image/video analysis, etc.

**Recent Published Publications** (Total: 80+)

- Zhishou Zhang, Qibin Sun, Wai-Choong Wong, John Apostolopoulos and Susie Wee, An Optimized Content-Aware Authentication Scheme for Streaming JPEG-2000 Images over Lossy Networks, IEEE Transactions on Multimedia, Vol.9 No.2, pp.320-331, Feb, 2007. Short version was awarded the Best Paper in International Conference on Multimedia and Expo (ICME) 2006
- Qibin Sun, Dajun He and Qi Tian, A secure and robust authentication scheme for video transcoding, IEEE Transactions on Circuits and Systems for Video Technology Vol.16, No.10, pp.1232-1244, Oct., 2006
- Rong Zhang, Qibin Sun, Wai-Choong Wong, An efficient context-based BPGC scalable image coder, IEEE Trans. Circuits and Systems (Part II), Vol.53, No.9, pp.981-985, Sept., 2006.
- Zhi Li and Qibin Sun, Design and analysis of a scalable watermarking scheme for the scalable audio coder, IEEE Transactions on Signal Processing, Vol. 54, No. 8, pp. 3064-3077, 2006.
- Kurato Maeno, Qibin Sun, Shih-Fu Chang, and Masayuki Suto, New Semi-Fragile Image Authentication Watermarking Techniques Using Random Bias and Non-Uniform Quantization, IEEE Transactions Multimedia, Vol.8, No. 1, pp.32-45, 2006.

**Professional Activities**

- Associate Editor, IEEE Transactions on Circuit and System on Video Technology (CSVT), 2006--
- Member of Editorial Board, IEEE Multimedia Magazine, 2005--
- Member of Editorial Board, LNCS Transactions on Data Hiding and Multimedia Security, 2005--
- Member of Editorial Board, EURASIP Journal on Information Security, 2006--
- Technical Co-Chair, 1st International Workshop on Multimedia Analysis and Processing (IMAP), 2007
- Technical Vice-Chair, IEEE International Symposium of Multimedia (ISM), 2006.
- Track Chair of Multimedia Security, IEEE International Conference on Multimedia & Expo (ICME) 2006 & 2007.
- Area Chair of Multimedia Security, The 13th International Multimedia Modeling Conference (MMM), 2007
- TPC Member for Conferences: ICIP2007, ICASSP2007, CCNC2007, IWDW2006, APCCAS2006, ACM Multimedia 2006 (Short papers), SLAM2006, ACCV2006, etc.
- Reviewer for Journals: Proceedings of IEEE, IEEE Transactions on Multimedia, IEEE Transactions on Signal Processing, IEEE Transactions on Information Forensics & Security, etc.

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4. Xun Jun, nominated by Huifang Sun

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**Jun Xin** received the B.E. degree from Southeast University, Nanjing, China, in 1993, the M.E. degree from Institute of Automation, Chinese Academy of Sciences, Beijing, China, in 1996, and the Ph.D. degree from University of Washington, Seattle, WA, in 2002, all in electrical engineering. He has been with Mitsubishi Electric Research Laboratories (MERL), Cambridge, MA, since August 2003, where he is currently a Principle Member of Technical Staff. Before joining MERL, he was a Senior Software Engineer in Broadware Technologies, Cupertino, CA. From 1996 to 1998, he was a Software Engineer at Motorola-ICT Joint R&D Lab (JDL), Beijing, China. His research interests include digital video coding and processing. He has been an IEEE member since 2003.

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5. Anthony TS Ho, nominated by Qing-Yun Shi

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**Professor Anthony TS Ho** joined the Department of Computing, School of Electronics and Physical Sciences, University of Surrey in January 2006. He is a Full Professor and holds a Personal Chair in Multimedia Security. He was an Associate Professor at Nanyang Technological University (NTU), Singapore from 1994 to 2005. Prior to that, he spent 11 years in the IT industry in technical and management positions in both the UK and Canada. Professor Ho has been working on digital watermarking and steganography since 1997 and co-founded DataMark Technologies ([www.datamark-tech.com](http://www.datamark-tech.com)), one of the first spin-out companies by an academic at NTU and one of the first companies in the Asia-Pacific region, specializing in the research and commercialization of digital watermarking technologies. He continues to serve as a Director and Consultant to the company. Professor Ho led the research and development team that invented a number of novel watermarking algorithms that resulted in three international patents granted including the US patent (6,983,057 B1) on "Methods for Embedding Image, Audio and Video Watermarks in Digital Data." These patents led to the development and commercialization of StegMark™ ImageLite which has proven to be a very successful product licensed to HP digital scanners. Since its official launch in October 2004, more than 100,000 licenses have already been sold. The success of this commercialization has led to him winning the prestigious global IET annual Innovation Award in Engineering in October 2006. The IET Awards received hundreds of entries globally in 14 categories. Professor Ho won the Security category for his research and commercialization of StegMark™ ImageLite. The award was judged by a distinguished panel of international security experts from academia and industry including Royal Holloway, Qinetiq, UBS Investment Bank and Infineon Technologies. The judges' comments for this award were as follows: "The award has been given to a novel product that is an excellent example of sound security technology with an important practical application." Professor Ho obtained his BSc(Hons) in Physical Electronics from the University of Northumbria, UK in 1979, his MSc in Applied Optics from Imperial College in 1980 and his PhD in Digital Image Processing from King's College, University of London in 1983. He is a Fellow of the Institution of Engineering and Technology (FIET), a Chartered Electrical Engineer and a Senior Member of the Institute of Electrical and Electronic Engineers. He has published around 100 international refereed articles in journals and conference proceedings, as well as a number of patents granted/pending in digital watermarking and steganography. Professor Ho has actively participated and served on numerous international IEEE Conference technical committees over the years. He will serve as one of three co-chairs for the IEEE 3rd international conference on intelligent information hiding and multimedia signal processing (IIH-MSP'07) and co-editor for the two volume proceedings of this conference.

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6. Professor Lu Yu, nominated by Yun He

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**Prof. Lu Yu** received her B. Eng. degree (Honor.) on Radio Engineering and Ph.D degree on Communication and Electronic Systems from Zhejiang University, China in 1991 and 1996, respectively. Now she is a professor in the Institute of Information and Communication Engineering, Zhejiang University. She was a senior visiting scholar in University Hannover in 2002 supported by China Scholarship Council and German Research Foundation (DFG). She was a senior visiting scholar in The Chinese University of Hong Kong supported by the United College Resident Fellow Scheme in 2004.

Her research area is video coding, multimedia communication and relative ASIC design, in which she is principal investigator of national R&D projects such as Natural Science Foundation of China, 863 Hi-tech Program and inventor or co-inventor of 14 granted and 13 pending patents. She published more than 80 technical papers and contributed 119 proposals to international and national standards in the recent years.

She now acts as the Chair of the Video-Subgroup of Audio Video coding Standard (AVS) of China and she also was the Co-Chair of Implementation-Subgroup of AVS.

She organized the International Workshop on Packet Video'2006 as a General Chair, and host the 78th ISO/IEC JTC1 SC29 WG11 (MPEG) and 21st JVT meeting. Two Special Sessions have been organized and five invited talks and tutorials given in international conferences by Prof. Yu.

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7, Professor Fernando Manuel Bernardo Pereira, nominated by Yun He

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**Prof. Fernando Pereira** is currently Professor at the Electrical and Computers Engineering Department of Instituto Superior Técnico, Lisboa, Portugal. He is responsible for the participation of IST in many national and international research projects. He acts often as project evaluator and auditor for various organizations. He is an Area Editor of the Signal Processing: Image Communication Journal and is or has been an Associate Editor of IEEE Transactions of Circuits and Systems for Video Technology, IEEE Transactions on Image Processing, IEEE Transactions on Multimedia, and IEEE Signal Processing Magazine. He is a Member of the IEEE Signal Processing Society Image and Multiple Dimensional Signal Processing Technical Committee and of the IEEE Signal Processing Society Multimedia Signal Processing Technical Committee. He was an IEEE Distinguished Lecturer in 2005, and member of the Scientific and Program Committees of many international conferences. He has contributed more than 180 papers. He has been participating in the work of ISO/MPEG for many years, notably as the head of the Portuguese delegation, Chairman of the MPEG Requirements Group, and chairing many Ad Hoc Groups related to the MPEG-4 and MPEG-7 standards. His areas of interest are video analysis, processing, coding and description, and interactive multimedia services.

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8, Chih-Hung Kuo, Nominated by Tihao Chiang

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### **Chih-Hung Kuo**

#### **Research Interests**

Digital Multimedia Compression and Communication

#### **Employment History**

Assistant Professor, Dept. of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan. 2004-present

Senior Engineer, Winbond Electronics Ltd., 2004-2004.

Research Assistant, Dept. of Electrical Engineering, University of Southern California, Los Angeles. 1999 – 2003.

Design Engineer, Computer and Communication Research Laboratories/ Industrial Technology Research Institute. (CCL/ITRI) Hsinchu, Taiwan. 1996 –1998.

#### **Education**

Ph. D., Electrical Engineering, 1998-2003

University of Southern California, Los Angeles, USA

MS, Electrical Engineering, 1992-1994

National Tsing Hua University, Hsinchu, Taiwan

BS, Electrical Engineering, 1988-1992

National Tsing Hua University, Hsinchu, Taiwan

#### **Selected Paper**

[1] Li-Chuan Chang, Yen-Sung Chen, Rung-Wen Liou, Chih-Hung Kuo, Chia-Hung Yeh and Bin-BDa Liu, "A real time and low cost hardware architecture for video abstraction system," Proc. IEEE International Symposium on Circuits and Systems, 2007.

[2] Chih-Hung Kuo and C.-C. Jay Kuo, "Embedded space-time codes for wireless multimedia broadcast," IEEE Transaction on Communications, vol 53, no 1, March 2007, pp 48-58.

[3] Chih-Hung Kuo, Meiyin Shen and C.-C. Jay Kuo, "Motion search algorithm with fast mode decision in H.264 video coding standard," Journal of Visual Communication and Image Representation, vol 17, 2006, pp 217-242.

[4] Hsin-Ju Feng and Chih-Hung Kuo, "Frame based Error concealment in H.264/AVC by refined motion prediction," Proc. IEEE Asia Pacific Conference on Circuit and Systems, Singapore, Dec 4-7, 2006, pp 247-250.

[5] Chih-Hung Kuo, W.-B. Wu, Y.-J. Wu, and J.-H. Lin, "Serial low power bus coding for VLSI," Proc. IEEE International Conference on Communications Circuits and Systems, Gui Lin, China, June 25-28, 2006.

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**Patent**

Wen-Yuan Chen and Chih-Hung Kuo, "Apparatus and method for echo cancellation." US5970154. Issued Date Oct. 19, 1999.

**Paper Reviewer**

- [1] IEEE ISCAS 2006 reviewer invited by Dr. Bin-Da Liu
- [2] IEEE Globecom 2006 reviewer invited by Dr. Zhi Ding
- [3] EURASIP Journal on Advances in Signal Processing reviewer invited by Dr. Yap-Peng Tan
- [4] IEEE ISCAS 2005 reviewer invited by Dr. Guo-Gwin (Chris) Lee
- [5] International Journal of Electrical Engineering reviewer invited by Dr. Kuen-Jong Lee
- [6] Signal Processing: Image Communication Journal reviewer by Dr. Ahmet Murat Tekalp
- [7] IEEE Transactions on Circuit and System reviewer invited by Dr. Bin-Da Liu
- [8] IEEE Transactions on Wireless Communications reviewer invited by Dr. Fu-chun Zheng
- [9] IEEE ICC 2003 reviewer invited by Dr. Xiang-Gen Xia
- [10] Journal of Visual Communication and Image Representation reviewer invited by Dr. C.-C. Jay Kuo

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9. Marco Mattavelli, Nominated by Gwo Giun Lee/Tihao Chaing

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**Education**

January 1997 Docteur ès sciences Techniques (PhD)  
Ecole Polytechnique Fédérale de Lausanne  
Lausanne, Switzerland.

PhD essay title : "Motion analysis and estimation: from ill-posed discrete inverse linear problems to MPEG-2 coding"

March 1987 Degree (MSc equivalent) in Electrical Engineering  
Politecnico di Milano  
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26 votes for all candidates out of 26 members attended the TC New Orleans meeting. congratulations!

**7. Next TC meeting will be held in Seattle during ISCAS2008, the proposed agenda is as follows:**

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Approval of the agenda  
BOG & TC Chairs meeting reports  
Review the activities during the past year  
Conference Support  
New members  
Elect new officers  
ISCAS 2009 promotion  
Other business  
Adjourn

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