2006 Annual Report
IEEE CAS Visual Signal Processing and Communications (VSPC) Technical Committee

Past Chair: Dr. Huifang Sun, Mitsubishi Electric Research Labs, USA
Chair: Dr. Tihao Chiang, National Chiao-Tung University, Taiwan
Secretary: Dr. Wenwu Zhu, Intel Corp.
Attendance:

	Name	Organization	Email
1.	Yap-Peng Tan	Nayang Technological Univ.	eyptan@ntu.edu.sg
2.	Tsung-Han Tsai	Dept. of E.E., NCU	han@ee.ncu.edu.tw
3.	Ling Guan	Ryerson Univ.	lguan@ee.ryerson.ca
4.	Ming-Ting Sun	U. of Washington	sun@ee.washington.edu
5.	Wenwu Zhu	Intel Research China	Wenwu.zhu@intel.com
6.	Chia-wen Lin	National Chung Cheng Univ.	cwlin@cs.ccu.edu.tw
7.	Jar-Ferr Yang	National Cheng Kung Univ.	jfyang@ee.ncku.edu.tw
8.	Chang Wen Chen	Florida Institute of Tech	cchen@fit.edu
9.	Feng Wu	Microsoft Research Asia	fengwu@microsoft.com
10.	Pau-Choo (Julia) Chung	National Cheng Kung Univ.	pcchung@ee.ncku.edu.tw
11.	Shipeng Li	Microsoft Research Asia	spli@microsoft.com
12.	Lap-Pui Chau	Nanyang Technological Univ.	elpchau@ntu.edu.sg
13.	Huifang Sun	Mitsubishi Electronic Research Lab.	hsun@merl.com
14.	Susanto Rahardja	Institute for Information Research	rsusanto@i2r.a-star.edu.sg
15.	Nam Ling	Santa Clara University	nling@scu.edu
16.	Alex Kot	Nanyang Technological Univ.	eackot@ntu.edu.sg
17.	Oscar Au	Hong Kong Univ. of Sci. & Tech.	eeau@ust.hk
18.	Ishfaq Ahmad	UT. Arlington	iahmad@cse.uta.edu
19.	Jhing-Fa Wang	National Cheng Kung Univ.	wangjf@csie.ncku.edu.tw
20.	Liang-Gee Chen	National Taiwan Univ.	lgchen@ee.ntu.edu.tw
21.	Gwo Giun Lee	National Cheng Kung Univ.	clee@mail.ncku.edu.tw
22.	Yun He	Tsinghua Univ.	hey@tsinghua.edu.cn
23.	Jian Zhang	U. of New South Wales	Jian.zhang@nicta.com.au
24.	Tihao Chiang	National Chiao-Tung University	tchiang@cc.nctu.edu.tw

1. Newly Elected IEEE Fellow from TC
    - Alex Chichung Kot

    3. Journal Editorial Support

    - IEEE T-CSVT (EIC Chang Wen Chen, A. Kot, Oscar Au, Liang-Gee Chen, Zhihai He, Ling Guan, Pascal Frossard, Shipeng Li, Huifang Sun, Dapeng Oliver Wu, Wenwu Zhu
    - IEEE T- Multimedia 2002-2004 (Chang Wen Chen, Tihao Chiang, Jie Chen, Lap-Pui Chau, Pascal Frossard, Ching-Yung Lin, Qian Zhang)
    - IEEE T-CASI (A. Kot, Tsuhan Chen)
    - IEEE T-CASII (A. Kot)
    - IEEE T-Multimedia, SI on MPEG-21, June 2005. (Anthony Vetro, Guest Editor)
    - IEEE T-Consumer Electronics (Anthony Vetro, Associate Editor, 2002-Present)
    - IEEE Communications Magazine, SI on "Advances in Visual Analysis and Adaptation for Multimedia communications". (Haohong Wang, King N. Ngan, Joern Ostermann, Guest Editors, Jan. 2007)
    - IEEE Signal Processing Magazine (Anthony Vetro, Associate Editor, Jan 2006-Present)
    - IEEE Wireless Communications Magazine, SI on "Wireless Video". (Qian Zhang, Wenwu Zhu, Bernd, Inald)
    - IEEE Multimedia Magazine (Chang Wen Chen)

    - Journal of Visual Communication and Image Representation (C.-C. Jay Kuo, EIC, 1997-Present)
    - LNCS Transactions on Data Hiding and Multimedia Security by Springer (Founding EIC Y. 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)

    - J. of VLSI Signal Processing Systems for Signal, Image, and Video Technology, SI on "Digital and Computational video", Vol. 42, No. 1, Springer, January 2006 (Nam Ling, Guest Editor)
    - J. of VLSI Signal Processing Systems for Signal, Image, and Video Technology(Wan-Chi Siu, Yap-Peng Tan)

- EURASIP JASP (C.-C. Jay Kuo, Liang-Gee Chen Alex Kot, Jar-Ferr Yang, Yap-Peng Tan, Editorial board member)
- 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, co-Guest Editor)

- Journal of Wireless Communications and Wireless Computing, SI on "Video communications for 4G wireless systems".(Haohong Wang, Guest Editor, to be published in early 2007)
- JVCIR (Chang Wen Chen)

4. International Conference Support

The committee would like to thank Professors **Chris Lee** and **Yap-Peng Tan** for the co-chairmanship and kind assistance in this year's ISCAS 2006 review. 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 2006 conferences.

- **Alexis Michael Tourapis**: Thomson Multimedia, USA
- **Anthony Vetro**: Mitsubishi Electric Research Labs, USA
- **C.-C. Jay Kuo**: Department of Electrical Engineering-Systems and Signal and Image Processing Institute, USC, USA
- **Chang Wen Chen**: Department of Electrical & Computer Engineering, Florida Institute of Technology, USA
- **Chia-Wen Lin**: Department of Computer Science and Information Engineering, National Chung Cheng University, Taiwan
- **Chris Lee**: Electronic Engineering, National Cheng Kung University, Taiwan
- **Dapeng Oliver Wu**: Assistant Professor, Department of Electrical & Computer Engineering , University of Florida, USA
- **Zhengguo Li**: Institute for Infocomm Research (I²R), Singapore
- **Guoping Qiu**: School of Computer Science, University of Nottingham, UK
- **Tsung-Han Tsai**: Dept. of Electrical Engineering, National Central University, Taiwan
- **Haohong Wang**: Qualcomm CDMA Technology, USA
- **Zhihai He**: Department of Electrical and Computer Engineering, University of Missouri, USA
- **Ishfaq Ahmad**: Computer Science and Engineering Department, University of Texas at Arlington, USA
- **J.J. Leou**: Department of Computer Science and Information Engineering, National Chung Cheng University, Taiwan
- **Jar-Ferr (Kevin) Yang**: National Cheng Kung University, Taiwan
- **Kim Hui Yap**: Electrical and Electronic Engineering, Division of Information Engineering, Nanyang Technological University, Singapore
- **Alex Chichung Kot**: School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore
- **Lap-Pui Chau**: School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore
- **Mei-Juan Chen**: Electrical Engineering, National Dong Hua University,Taiwan
- **Nam Ling**: Department of Computer Engineering, Santa Clara University, USA
- **Liang-Gee Chen**: Department of Electrical Engineering, National Taiwan University, Taiwan
- **Shao-Yi Chien**: Department of Electrical Engineering, National Taiwan University, Taiwan
- **Shipeng Li**: Microsoft Research, Asia, China
- **Susanto Rahardja**: Institute for Infocomm Research (I²R)
- **Tian-Sheuan Chang**: Electronic Engineering, National Chiao-Tung University, Taiwan
- **Yi-Shin Tung**: CSIE, National Taiwan University, Taiwan
- **Vitali Zagorodnov**: Computer Engineering ,Nanyang Technological University, Singapore
- **Xiaokang Yang**: Shanghai Jiao Tong University, China
- **Yap-Peng Tan**: Division of Information Engineering, School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore
- **Yun He**: Electronic Engineering Department, Tsinghua University, China
- **Wenwu Zhu**: Intel Corp. , China
- **Munsi A. Haque**: Intel Corp., USA
- **Lu Yu**: College of Info Science and Engineering, ZheJiang University, China
- **Takeshi Ikenaga**: Waseda University, Japan
- **Pan Feng**: Institute for Infocomm Research (I²R), Singapore

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

- ISCAS 2006: Special Session on "Visual Signal Processing and Communications for Enhanced Security and Safety" for ISCAS 2006 (Yap-Peng Tan and Chia-Wen Lin)
- ICIP 2005-2006 (A. Kot, Yap-Peng Tan, Anthony Vetro, Haohong Wang)
- ICME 2005-2006 (Chia-Wen Lin, A. Kot, C.-C. Jay Kuo, Anthony Vetro, Haohong Wang)
- PCS 2006 (Oscar Au, Tsuhan Chen, Tihao Chiang, C. C. Jay Kuo, Chang-Wen Chen, Hsueh-Ming Hang, Huifang Sun, Joern Ostermann, King N. Ngan, Liang-gee Chen, Ming-Ting Sun, Shipeng Li, Tsuhan Chen, Weiping Li, Yao Wang, Ya-Qin Zhang, Yun He, Nam Ling, Anthony Vetro, Feng Wu, Pascal Frossard, Kai-Kuang Ma) (also received report from Yun He)
- VCIP 2007 (A. Kot, Anthony Vetro)
- ICICS 2005 (A. Kot, Anthony Vetro)
- ICASSP 2006 (A. Kot, Anthony Vetro)
- ICCE (conference chair, Anthony Vetro)
- MMSP 2005-2006 (Anthony Vetro, Haohong Wang)
- VLBV 2005(Anthony Vetro)
- International Conference on Information, Communications, and Signal Processing 2005 of the, Dec. (Yap Peng Tan, Program co-chair)
- International Conference on Communications, Circuits and Systems (ICCCAS)2) 2006 (Yap-Peng Tan, Co-chair)
- Conference on Multimedia Systems and Applications IX, Part of SPIE's International Symposium on Optics East, 2006. (Yap-Peng Tan, Program Committee Member)
- Conference Co-Chair for the Conference on Multimedia Systems and Applications VIII (IT101), Boston, October 23-26, 2005. (C.-C. Jay Kuo)
- 7th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR) Workshop, Singapore, November 11-12, 2005. (C.-C. Jay Kuo)
- IEEE International Workshop on Multimedia Signal Processing, Shanghai, China, October 30-November 2, 2005. (C.-C. Jay Kuo)
- Conference on Internet Multimedia Management Systems V, Boston, MA., October 23-26, 2005. (C.-C. Jay Kuo)
- Conference on Applications of Digital Image Processing, XXVIII, San Diego, CA, July 31-August 4, 2005.
- Technical Program Committee for the Visual Communications and Image Processing (VCIP), Beijing, China, July 12-15, 2005. (C.-C. Jay Kuo)
- Program Committee for the Image and Video Communications and Processing, San Jose, CA., January 18-20, 2005. (C.-C. Jay Kuo)
- ITCom 2005 - SPIE Multimedia Systems & Applications (program chair, Anthony Vetro)
- General Chair, IEEE International Conference on Image Processing (ICIP'2010), IEEE Hong Kong Centre, HK Convention and Exhibition Centre, September 2010, Hong Kong. (Wan-Chi Siu)
- General Co-Chair, International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS'2005), the Chinese University of Hong Kong, 14-17 December, 2005, Hong Kong. (Wan-Chi Siu)
- General Co-Chair, International IEEE International Workshop on VLSI Design and Video Technology (IWVDVT-2005), 28-31 May, 2005, Suzhou China. (Wan-Chi Siu)
- IEEE International Conference on Communications (ICC'07), June 2007, England. (Haohong Wang)
- IEEE Wireless Communications and Networking Conference (WCNC'07), March 2007, Hong Kong. (Haohong Wang)
- The 3rd IEE International Conference on Mobile Technology, Applications and Systems (IEE Mobility Conference), October 2006, Bangkok, Thailand. (Haohong Wang)
- Second International Mobile Multimedia Communications Conference Processing (MobiMedia), Sept. 2006, Italy. (Haohong Wang)
- International Wireless Communications and Mobile Computing Conference (IWCMC2006) July 3-6, 2006, Vancouver, Canada (Haohong Wang)
- Second International Symposium on Multimedia over Wireless (ISMW'06), July 2006, Vancouver, Canada. (Haohong Wang)
- Second International Conference on Information and Communications Technologies (ICICT), April 2006, Damascus, Syria. (Haohong Wang)
- 15th International Packet Video Workshop (PV'06), April. 2006, Hangzhou, China. (Haohong Wang)
- IEEE Consumer Communications and Networking Conference (CCNC), Jan. 2006, Las Vegas, USA. (Haohong Wang)
- First IEEE International Symposium on Multimedia (ISM), Dec. 2005, Irvine, California, USA. (Haohong Wang)

- Fourteenth International Conference on Computer Communications and Networks (ICCCN), Oct. 2005, San Diego, USA. (Haohong Wang)
- First international workshop on Intelligent Information Hiding and Multimedia Signal Processing, Sept. 2005, Melbourne, Australia. (Haohong Wang)
- International Conference on Wireless Networks, Communications and Mobile Computing (WirelessCom'05), June 2005, Hawaii, USA. (Haohong Wang, Tihao Chiang)
- International Conference on Multimedia Service Access Network (MSAN), June 2005, Orlando, Florida, USA. (Haohong Wang)
- Technical Program Co-Chair - IEEE ISCAS'2007, U.S.A, May 27-30, 2007 (Nam Ling).
- Tech. Program Co-Chair - IEEE SiPS 2007, China (Nam Ling).
- Tech. Prog. Comm. Member & Session Chair, IEEE SiPS'2006 (Canada) & SiPS'2005 (Nov 2005)(Greece) (Nam Ling).
- Prog. Comm. Member & Session Chair, Picture Coding Symposium 2006 (PCS), China, April, 2006 (Nam Ling).
- Tech. Prog. Comm. Member & Session Chair, IEEE ICCE'2006, USA, January, 2006 (Nam Ling).
- Session Organizer & Chair, VCIP'2007, July 2005 (Nam Ling).
- TPC Member, 2005 Intl Symp on Intell. SP & Comm Syst, Hong Kong, Dec, 2005 (Nam Ling).
- Intl Prog Comm Member, 5th Intl Conf on Info, Comms & SP,Thailand, Dec, 2005 (Nam Ling).

Report From Prof. Yun He, Prof. Changwen Chen about PCS2006:
- PCS2006 celebrated her 25th event in Banquet, six picture coding pioneers received PCS2006 Awards for their "Leadership in PCS Organization and Pioneering Contributions in Picture Coding Research"
- Chaired by the Award Committee Chair Prof. Chang Wen Chen, Prof.. Ya-Qin Zhang, Prof. Weiping Li, Prof. Joern Ostermann and Prof. Yun He, worked for more than a half year in the selection process. The 6 pioneers are:
  1. Thomas Huang, Everitt Distinguished Professor, University of Illinois at Urbana-Champaign. Founding Chair of First PCS in 1969 in MIT and attended numerous PCS's. Has made numerous fundamental contributions in many areas of picture coding.
  2. Hans Musmann, Chair Professor, University of Hannover. He has attended a record number of 22 PCS's since the first PCS. He also organized the first PCS in Germany in 1974. He has made numerous fundamental contributions in many areas of picture coding.
  3. William Pratt, Professor Emeritus, University of Southern California and was the Director of Image Processing Institute. He is an inventor of numerous transform-based picture coding schemes.
  4. Ali Habibi, Working with Dr. William Pratt at University of Southern California Image Processing Institute on many pioneering research in picture coding. He is the inventor of Hybrid coding scheme published in 1973 PCS.
  5. Robert Forchheimer, Pioneering in motion picture coding schemes; the inventor of the basic motion picture coding framework (PCS1981) and the model-based coding schemes (PCS1983).
  6. Barry Haskell, AT&T Fellow, Pioneering research in predictive picture coding (many of them published in PCS's) and attended many PCS's since the first PCS. Here is his words in email" Hello folks, My goodness. You are digging up old history. Unfortunately, I cannot attend the PCS this year. However, I wish you all the best. I certainly remember the early Picture Coding Symposia. Frame memories were 7 feet tall, and chips had 6 gates in them if you were lucky. Computer simulations were just beginning to be able to process motion video. A criticism in the early days was that the presentations could be somewhat better organized, and there was too much reliance on the mean squared error. Has much changed in 37 years? I hope you also recall the organizers of the PCS, among which you should include Tom Huang, Olie Tretiak, John Limb, Charlie Rubinstein, Hans Mussman, Don Pearson and Hisashi Kaneko. Cheers, Barry"

    2. Invited Lectures
- Huifang Sun, "Digital television and video storage technology", MPEG Workshop, Hong Kong, (2005)
- Huifang Sun, Invited talk at MIT Lincoln Laboratory Auditorium for Hanscom Sigma Xi, The Scientific Research Society for IEEE Life Member Chapter (June)
- Huifang Sun, invited keynote speaker at 2nd International Forum on DTV and Wireless Multimedia Communications (Nov.)
- Huifang Sun, Invited talk at the Institute of Inforcom, Singapore (Dec.) Huifang
- Ming-Ting Sun, Keynote at VCIP 2005, "Mobile Computing," Beijing, July 2005.
- Ming-Ting Sun, Keynote at CVGIP 2005, "Graph Modeling for Finding Similar Images and Right Experts," Taipei, August 2005.
- Wenwu Zhu, Keynote at China Circuits and System, "Advances on Mobile Broadband Wireless", Hang Zhou, April 2006

- Alex C. Kot, "Secure Data Hiding in Black and White for Authentication based on Human Visual Perception," Sun Yat-sen University, Guangzhou, China, December 05.
- Alex C. Kot, "Secure Data Hiding in electronic media for Authentication," Institut Supérieur d'Electronique de Paris, France, April 06.
- Alex C. Kot, "Secure Data Hiding in electronic media for Authentication," Ecole Polytechnique de l'Université de Nantes, France, April 06.
- Alex C. Kot, "Watermarking and Data Hiding," 2-day lecture, Center for Artificial Intelligence and Robotics (CAIRO) Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia, November 05.
- Wan-Chi Siu, *Keynote Speaker:* The 11th Annual Youth Conference of Chinese Institute of Electronics (CIEYC2005), Jinan, Shandong University, 24-26 September, 2005 Shandong, China
- Wan-Chi Siu, *Plenary Presentation*, IEEE International Workshop on VLSI Design and Video Technology (IWVDVT-2005), 28-31 May, 2005, Suzhou China.
- H. Wang, "Recent advances in content representation and transmission for video communications", *IEEE Joint Meeting for Computer and Signal Processing Societies*, San Diego, Oct. 2005.
- Nam Ling, "Fast Motion Estimation - DHS-NPDS Method," Genesis Microchip Inc., California, U.S.A, March 17, 2006 (Nam Ling).
- Nam Ling, "H.264 Improved Rate Control with Frame Complexity Estimation," Nanyang Technological University, Singapore, July 28, 2005.
- Nam Ling, "H.264 Improved Rate Control with Frame Complexity Estimation," Communication University of China, Beijing, China, July 12, 2005.
- Nam Ling, "Fast Motion Estimation and its Scalable Complexity-Distortion Model" & "H.264 Improved Rate Control with Frame Complexity Estimation," Shanghai Jiao Tong University, Shanghai, China, July 7, 2005.
- Nam Ling, "Fast Motion Estimation and its Scalable Complexity-Distortion Model" & "H.264 Improved Rate Control with Frame Complexity Estimation," National Chiao Tung University, Hsinchu, Taiwan, June 24, 2005.
- Nam Ling, "Fast Motion Estimation and its Scalable Complexity-Distortion Model" & "H.264 Improved Rate Control with Frame Complexity Estimation," Industrial Technology Research Institute (ITRI), Hsinchu, Taiwan, June 23, 2005.

3. The committee is considering new members in the coming TC meeting in ISCAS06.

Feng Wu (fengwu@microsoft.com) (Nominated by Chang Wen Chen) (total 21 votes, all passed)

Dr. Feng Wu received his B.S. in Electrical Engineering from the University of Xi'an Electrical Science and Technology in 1992. He received his M.S. and Ph.D. in Computer Science from the Institute of Harbin Technology in 1996 and 1999, respectively. He joined in Microsoft Research China as an associated researcher in 1999. He has been a researcher with Microsoft Research Asia since 2001.

His research interests include image and video representation, media compression and communication, computer vision and graphics. He has developed some efficient techniques on scalable video coding from progressive fine granularity scalable coding (PFGS) and 3D wavelet video coding. He conducted research on combining scalable video coding and stream switching together. Now he is also working on vision-based video coding, distributed video coding, multi-view video coding, etc. He has been an active contributor to the ISO/MPEG and ITU-T standardization efforts. Some techniques are adopted by MPEG-4 FGS, H.264/MPEG-4 AVC and the coming H.263 SVC standard. He worked as the chairman of China AVS video group in 2002~2004 and led the efforts on developing China AVS video standard 1.0.

He has been a member of IEEE since 1999. He serves as the reviewer for IEEE trans. on Circuits and System for Video technology, IEEE trans. on Multimedia, IEEE signal processing letter and some other International journals. He also serves as the member of technical program committee in some International conferences, e.g. ICME 2006, PCS 2006, VCIP 2005. He has authored or co-authored over 100 papers published in IEEE trans. on CSVT, IEEE trans. on Multimedia, IEEE Signal Processing Letter and some International conferences (e.g., ICIP, ICME and ISCAS). He has about 30 U.S. patents granted or pending in video and image coding.

Zhengguo Li (ezgli@i2r.a-star.edu.sg) (Nominated by Nam Ling) (total 21 votes, all passed)

Dr. Zhengguo Li is currently a Senior Research Scientist with the Media Division of the Institute for Infocomm Research in Singapore. Dr Li is very active and contributed significantly in the video signal processing and communication areas. Among many achievements, he has a book, 37 journal papers, 49 conference papers, 1 patent and 7 contributions to the MPEG/JVT international standards. Most of his contributions are in the video coding and communication areas. His contributions to rate control (as adopted by H.264) and cross-layer ME/MC scheme (Scalable Video Coding) are especially important, as highlighted in his CV. Dr Li is currently a senior member of the IEEE. I believe, if given the

opportunity, his involvement in the TC will have many positive impacts to ISCAS and other TC activities.

Ling Guan (lguan@ee.ryerson.ca) (Nominated by Tihao Chiang) (total 21 votes, all passed)

Professor Ling Guan received his Bachelor Degree in Electronic Engineering from Tianjin University, China in 1982, Master's degree in Systems Design Engineering at University of Waterloo, Canada in 1985, and Ph.D. Degree in Electrical Engineering from University of British Columbia, Canada in 1989.

From 1993 to 2000, he was on the Faculty of Engineering at the University of Sydney, Australia where he founded the Signal and Multimedia Processing Laboratory. Since May 2001, he has been a professor of Electrical and Computer Engineering and the director of Ryerson Multimedia Research Laboratory at Ryerson University, Toronto, Canada. In November 2001, he was appointed to the position of Canada Research Chair in Multimedia by the Canadian Government in recognition of his contribution to the field of studies. He is the recipient numerous prestigious awards, including IEEE Transactions on Circuits and Systems for Video Technology Best Paper Award in 2005, the inaugural Ryerson University Faculty of Engineering and Applied Science Research Excellence Award in 2004, and a Senior Fellow Award from Australian Academy Sciences/Japan Society for the Promotion of Sciences in 1999. Dr. Guan also held visiting positions at British Telecom (1994), Tokyo Institute of Technology (1999), Princeton University (2000), and Microsoft Research Asia (2002).

His research interests include human-centered computing, multimedia indexing and retrieval, human-computer interface, transmission of multimedia data over P2P networks, bioinformatics, machine learning, adaptive image and signal processing, and applications in 1) digital asset management and preservation of cultural heritage, 2) computer aided referral systems, and 3) biometrics in security/surveillance. He has been invited to present plenary speeches, tutorials, invited talks at international conferences, government agencies, and research centers, and has authored/co-authored more than 200 scientific publications, including three books, 58 journal articles and two patents.

Dr. Guan is an advisory board member/associate editor/guest editor of numerous international journals, including the prestigious Proceedings of the IEEE, IEEE Signal Processing Magazine, IEEE Computational Intelligence Magazine, IEEE CSVT Transactions (to start in Jan 2006) and IEEE Transactions on Neural Networks. He also serves on the editorial board of CRC Press' Book Series on Image Processing. He has involved in organizing many international conferences and served as the General Chair/Program Committee Chair of several IEEE conferences. He played the leading role in the inauguration of the First IEEE Pacific-Rim Conference on Multimedia, and served as the Founding General Chair in 2000. Currently, he is the General Chair of 2006 IEEE International Conference on Multimedia and Expo to be held in Toronto, Canada.

Dr. Guan is a Senior Member of IEEE, and a Member of IAPR. He serves on the Advisory Board of International Computational Intelligence Society, IEEE SP Society Technical Committee on Multimedia Signal Processing, and IAPR Technical Committee on Structural and Syntactic Pattern Recognition. He was a member of IEEE SP Society Technical Committee on Neural Networks in Signal Processing (1997-2000)

Frank Shih (frank.y.shih@njit.edu) (Nominated by Yun-Qing Shi)

1998 - Present   New Jersey Institute of Technology
Professor and Associate Chair for Graduate Studies
Department of Computer and Information Science
1993 - 1998   New Jersey Institute of Technology
Associate Professor and Graduate Advisor
Department of Computer and Information Science
1995 - 1996   National Taiwan University
Guest Professor
Department of Electrical Engineering
1995   US Air Force Rome Laboratory
Visiting Faculty
1988 - 1993   New Jersey Institute of Technology
Assistant Professor
Department of Computer and Information Science
1984 - 1987   Purdue University
Research Assistant
Department of Electrical Engineering
NSF Engineering Research Center at Purdue

Dr. Frank Shih's **research interests** focus on Image Processing, Computer Vision, Computer Graphics,

Robot Sensing, Medical Imaging, Fuzzy Logic, Pattern Recognition, Neural Networks, Artificial Intelligence, Parallel Processing.

Ebroul Izquierdo (ebroul.izquierdo@elec.qmul.ac.uk) (Nominated by Thomas Sikora)

Professor Ebroul Izquierdo, PhD, MSc, CEng, SMIEEE, MIEE, MBMA, is Chair of Multimedia and Computer Vision and head of the Multimedia and Vision Lab at Queen Mary, University of London . For his thesis on the numerical approximation of algebraic-differential equations, he received the Dr. Rerun Naturalium (PhD) from the Humboldt University , Berlin, Germany, in 1993. From 1990 to 1992 he was a teaching assistant at the department of applied mathematics, Technical University Berlin . From 1993 to 1997 he was with the Heinrich-Hertz Institute for Communication Technology (HHI) , Berlin , Germany , as associated researcher. From 1998 to 1999 Dr. Izquierdo was with the Department of Electronic Systems Engineering of the University of Essex as a senior research officer. Since 2000 he has been with the Electronic Engineering department, Queen Mary, University of London . Prof. Izquierdo was the UK representative of the EU Action Cost211. He also coordinated the EU IST project BUSMAN and represented QMUL in the European IST Network of Excellence SCHEMA. Currently, he is a main contributor to the IST integrated projects aceMedia and MESH. He also coordinates the EU Action Cost292 and the FP6 network of excellence on semantic inference for automatic annotation and retrieval of multimedia content, K-Space. Prof. Izquierdo is associate editor of the IEEE Transactions on Circuits and Systems for Video Technology and has served as guest editor of three special issues of the IEEE TCSVT and one special issue of the journal Signal Processing: Image Communication. He is a Chartered Engineer, a senior member of the IEEE, the IEE and the British Machine Vision Association. He is member of the programme committee of the IEEE conference on Information Visualization, the international program committee of EURASIP&IEEE conference on Video Processing and Multimedia Communication and the European Workshop on Image Analysis for Multimedia Interactive Services. Prof. Izquierdo has served as session chair and organiser of invited sessions at several conferences. He has been the chair of the European Workshop on Image Analysis for Multimedia Interactive Services, London 2003, the European Workshop for the integration of Knowledge, Semantics and Content, London 2004 and 2005 and the Mobile Multimedia Communications Conference MobiMedia 2006. He has published over 150 technical papers including chapters in books.

Pascal Frossard (pascal.frossard@epfl.ch) (Nominated by Chang Wen Chen) (total 21 votes, all passed)

Dr. Pascal Frossard is a tenure-track Assistant Professor at the Signal Processing Institute of EPFL, since 2006. His research interests include multimedia commnications, information theory, non-linear representations for visual information, rich media streaming, error control algorithms, multimedia content distribution, and multimedia information stream analysis.

He got his M.Sc. and Ph.D., both in Electrical Engineering, from the Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland, in 1997 and 2000 respectively. In 1998, he graduated from the Doctoral School of the Communications Systems Division of EPFL. Then he started his PhD with the Signal Processing Laboratory of the Swiss Federal Institute of Technology in Lausanne, where he was involved in a joint partnership between Hewlett-Packard and the Swiss Federal Institute of Technology. The topic of his PhD research was on error-resilient and multi-resolution video communications. Between 2001 and 2003, he has been with the Media Delivery Architectures Department of the IBM TJ Watson Research Center (Yorktown Heights, NY, USA), where he mainly worked on media compression, streaming technologies and delivery architectures (iSee, SENDS and ARMS projects). In 2003, he joined the Signal Processing Institute of EPFL as head of the LTS4 laboratory, under a professorhsip grant from the Swiss National Science Foundation (FNS).

Among other technical activities, Pascal Frossard has been the General Chair of ICME 2002 (Lausanne, Switzerland, August 2002), and he will organize the Packet Video workshop in 2007. He has served as Guest Editor of a Special Issue of the IEEE Transactions on Multimedia (Streaming Media, April 2004), Guest Editor of a Special Issue of the Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology (Media and Communication Applications on General Purpose Processors: Hardware and Software Issues, September 2005) and Guest Editor of a Special Issue of the Journal of Signal Processing (Image and Video Coding Beyond Standards, November 2002). He is an Associate Editor of the IEEE Transactions on Multimedia (2004-), and he served as a member of the Editorial Board of the EURASIP Journal of Signal Processing (2003-2005).

Since 2004, he serves as Vice-Chair of the IEEE Multimedia Communications Technical Committee (chair of the Media Streaming Interest Group), and as a member of the IEEE Multimedia Signal Processing Technical Committee. Since 2005, he chairs the steering committee of the IEEE ICME

conference, the IEEE multimedia conference, co-sponsored by the Circuits and Systems, Communications, Computer and Signal Processing Societies.

In 2005, he has been selected to receive the prestigious IBM Faculty Award, that recognizes the quality of his research, and its importance to IBM Research strategy.

Kai-Kuang Ma (EKKMA@ntu.edu.sg) (Nominated by Tihao Chiang)

Professor Ma received the B.E. degree (electronic engineering) from Chung Yuan Christian University, Chung-Li, Taiwan, R.O.C., the M.S. degree (electrical engineering) from Duke University, Durham, NC, U.S.A. and the Ph.D. degree (electrical engineering) from North Carolina State University, Raleigh, NC, U.S.A.

He is now Professor of Electrical and Electronic Engineering at Nanyang Technological University, Singapore. From 1992 to 1995, he was a Member of Technical Staff at Institute of Microelectronics, National University of Singapore, working on digital video coding and the MPEG standards. From 1984 to 1992, he was working in IBM Corporation at Kingston, NY, and then Research Triangle Park, NC, U.S.A., engaging on various DSP and VLSI advanced product development. His research interests are in the areas of digital signal, image and video processing. These include digital image/video coding and standards, wavelets and filter banks, joint source/channel image coding, denoising, error resilience and concealment, content-based image indexing and retrieval.

He is Singapore MPEG Chairman and Head of Delegation (1997-2001). On the MPEG contributions, two fast motion estimation algorithms (Diamond Search and MVFAST) produced from his research group have been adopted by the MPEG-4 standard, as the reference core technology for fast motion estimation. He is the General Chair of organizing a series of international standard meetings (MPEG and JPEG), JPEG2000 and MPEG-7 workshops held in Singapore (March 2001).

Dr. Ma is currently serving as (Associate) Editor of four international journals: the IEEE TRANSACTIONS ON COMMUNICATIONS, the IEEE TRANSACTIONS ON MULTIMEDIA, the *International Journal of Image and Graphics*, and the *Journal of Visual Communication and Image Representation*. He is an elected Technical Committee Member of the IEEE Signal Processing Society Image and Multidimensional Signal Processing (IMDSP) and the IEEE Communications Society Multimedia Communications Committee. He has been serving as Technical Program Committee member, reviewer and Session Chair of multiple IEEE international conferences. He is Technical Program Co-Chair, IEEE International Conference on Image Processing (ICIP) 2004. He is Chairman of IEEE Signal Processing Singapore Chapter (2000-2002).

4. Dr. Wenwu Zhu is taking over as the new chairman and the committee elected Yun He as our new secretary (total 22 votes including new members, all passed).

5. Next TC meeting will be held in New Orleans during ISCAS2007, the proposed agenda is as follows:
===
1. Approval of the agenda
2. BOD report
3. Review the activities during the past year
4. Conference Support
5. New members
6. Elect new officers
7. ISCAS 2008 promotion
8. Other business
9. Adjourn