

ANNUAL REPORT 2010-2011 DSP TC IEEE CAS SOCIETY

Chairman: **Prof. Yong Lian**
Secretary: **Prof. Moncef Gabbouj**
Past Chairman: **Prof. Behrouz Nowrouzian**

Members of the DSP TC of the IEEE CAS continue to be very active in 2010-2011. The following report highlights members' activities in various areas of interest to CAS community. The members participated actively in ISCAS 2010 as well as ISCAS 2011 as detailed in section 1. They have been involved in various capacities in a large number of conferences listed in section 2.3. Nineteen books/book chapters have been authored by members of the TC. A total of 35 plenary lectures in international conferences and workshops have been given by members of the TC as outlined in section 5. Sections 6 and 7 of the report summarize the various editorial and IEEE services carried out by members of the TC. The DSP TC technically co-sponsored many conferences and workshops, the full list is provided in section 8. Additional activities carried out by members of the TC are highlighted in section 9. Finally, the report ends with news from members of the TC and prestigious distinctions obtained in 2010-2011. We are particularly proud of the Distinguished Alumnus Award from the American University of Beirut received by Prof. Karam. Congratulations to Prof. Swamy on his 75th birthday which was celebrated at the Midwest Symposium on Circuits and Systems 2010, to Prof. Miyanaga for his election to the BoG of CAS, and to Prof. Venetsanopoulos for receiving the Fellowship of The Royal Society of Canada in November 2010.

1 DSP TC Meeting

The 2010 DSP TC Annual Meeting was held at Grand Central Station I, Disney's Hotel New York from 12:50 PM to 14:00 PM on Wednesday June 2, 2010, during the 2010 IEEE International Symposium on Circuits and Systems, Paris, France. The minutes of the meeting contain a detailed report of the items discussed and decisions taken during the meeting as well as the list of attendees.

2 Conferences and Workshops involving the DSP TC or its Members

2.1 TC members involved in the 2011 IEEE International Symposium on Circuits and Systems (ISCAS 2011), May 15-18, 2011, Rio de Janeiro, Brazil:

- **DSP Track Co-Chairs:** Prof. Yong Lian, Prof. Moncef Gabbouj, and Prof. Tapio Saramäki.
- **Review Committee Members of DSP Track:** Profs. M. Omair Ahmad, Oscar Au, M. Chakraborty, Lim Yong Ching, Linda DeBrunner, Tian-Bo Deng, Moncef Gabbouj, Oscar Gustafsson, Xinping Huang, Hakan Johansson, Ted Kok, H.K. Kwan, Daniel Lun, Kai-Kuang Ma, Yoshikazu Miyanaga, Truong Nguyen, Behrouz Nowrouzian, Soontorn Orintara, Ravi Prakash Ramachandran, W. C. Siu, David Tay, Chien-Cheng Tseng, Tas Venetsanopoulos, Alan Willson, Yajun Yu, Wei Xing Zheng, Wei-Ping Zhu.

- **Technical Session Chairs:**

- Adaptive Techniques in Signal and Image Processing Applications: Akira Taguchi, Moncef Gabbouj
- FIR Digital Filters: Yong Lian, Yajun Yu
- Detection and Estimation: Sandar Basu, Weixing Zheng
- Digital Filter Design and Implementation: H K Kwan, Behrouz Nowrouzian
- IC Implementation of DSP Algorithms: Oscar Gustafsson, Tapio Saramäki
- Image Processing & Analysis: MNS Swamy
- DSP for Communications: Raija Lehto
- Digital Signal Processing Applications: Yajun Yu, M Chakraborty
- DSP Implementation: Tokunbo Ogunfunmi, Yoshikazu Miyanaga
- Discrete Transforms: Tapio Saramäki, David Tay
- Multirate & Filter Banks: Hakan Johansson, David Tay
- Compressed Sensing & Nonlinear Signal Processing: Wei Xing Zhang, Oscar Au
- Image & Video Compression: Moncef Gabbouj, Tokunbo Ogunfunmi
- Signal Processing in OFDM: Yoshikazu Miyanaga, Wei-Ping Zhu
- Speech Processing: Håkan Johansson, Raija Lehto

- **Special Sessions organized by TC member:**

- Wei-Ping Zhu and MNS Swamy, Compressive Sensing & Its Applications
- Tokunbo Ogunfunmi, Recent Advances in Linear & Non-Linear Adaptive Filters

2.2 TC members involved in the 2010 IEEE International Symposium on Circuits and Systems (ISCAS 2010), May 30- June 2, 2010, Paris, France.

- **DSP Track Co-Chairs:** Behrouz Nowrouzian, Yong Lian.
- **Review Committee Members of DSP Track:** Profs. Chien-Cheng Tseng, David Tay, Gwee Bah Hwee, H K Kwan, Mohsin M Jamali, Kai-Kuang Ma, Yong Ching Lim, Zhiping Lin, Masayuki Kawamata, Moncef Gabbouj, Soontorn Oraintara, Oscar Au, Oscar Gustafsson, Ravi Prakash Ramachandran, Tapio Saramäki, Ted Kok, Tokunbo Ogunfunmi, W C Siu, Wei Xing Zheng, Xinping Huang, Yoshikazu Miyanaga, Yajun Yu.
- **Technical Session Chair:**
 - Adaptive Signal Processing: Paulo Diniz, Wu-Sheng Lu
 - Biomedical Signal Processing: Wu-Sheng Lu, Yajun Yu
 - Detection & Estimation: Behrouz Nowrouzian, Wei Xing Zheng
 - Digital Audio: Tapio Saramäki, Wan-Chi Siu
 - Digital Audio & Speech Process: Gwee Bah Hwee, Mrityunjoy Chakraborty
 - Digital Filter Design: H K Kwan, Yajun Yu

- Digital Image & Video Processing I: Yoshikazu Miyanaga, Tokunbo Ogunfunmi,
- Digital Image & Video Processing II: Wan-Chi Siu, Sergios Theodoridis
- Digital Signal Processing for Communications I: Yoshikazu Miyanaga, M N S Swamy
- Digital Signal Processing for Communications II: Xinping Huang, Behrouz Nowrouzian
- Digital Signal Processing Implementation: Mrityunjoy Chakraborty, David Tay
- Digital Video I: M Omair Ahmad
- Digital Video II: M N S Swamy, Sergios Theodoridis
- Discrete Transforms & Wavelets: Rabinder N Madan, M Omair Ahmad
- DSP and Its Implementation: Oscar Gustafsson, David Tay
- DSP for Communications: Moncef Gabbouj
- FIR Digital Filters: Paulo Diniz, Yong Ching Lim
- M-Dimensional Digital Signal Processing: Masayuki Kawamata, Zhiping Lin
- Multirate & Array Signal Processing: Wei Xing Zheng, Xinping Huang
- Statistical & Nonlinear Signal Processing

2.3 DSP TC members involved in other conferences

- **Oscar Au**, General Co-Chair, Int. Packet Video Workshop (PV 2010), 13-14 Dec. 2010, Hong Kong, China, and IEEE Int. Conf. on Multimedia and Expo (ICME), 19-23 July 2010, Singapore; Special Session Chair, IEEE Int. Conf. on Image Processing (ICIP), 12-15 Sept. 2010, Hong Kong, China; Technical Program Committee, IEEE Global Communication Conf. (GLOBECOM) Miami, Florida, USA; APSIPA Annual Summit and Conference (ASC), Singapore; IEEE Int. Workshop on Multimedia Signal Processing (MMSp), Oct. 2010, Saint-Malo, France; 10th Int. Sym on Communications and Information Technologies (ISCIT), Tokyo, Japan; Asia Pacific Conf. on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), Sept. 2010, Shanghai, China; 11th Pacific-rim Conf. on Multimedia (PCM), Shanghai, China; SPIE Conf. on Visual Communications and Image Processing (VCIP), July 2010, Huang Shan, China; Int. Conf. on Signal Processing and Multimedia Application (SIGMAP), July 2010, Athens, Greece; IEEE Int. Conf. on Multimedia and Expo (ICME), Singapore; 3DTV Conference (3DTV-CON), June 2010, Tampere, Finland; 23rd Canadian Conference on Electrical and Computer Engineering (CCECE), Calgary, Alberta, Canada; Int. Conf. on Imaging Theory and Applications (IMAGAPP), Angers, France; and Track Chair/Technical Program Committee, IEEE Int. Conf. on Image Processing (ICIP), Sept. 2010, Hong Kong; Technical Program Committee, Int. Sym. On Visual Communication and Image Processing (VCIP), Tainan, Taiwan, China,

Nov. 2011; IEEE Int. Workshop on Multimedia Signal Processing (MMSP), Hangzhou, China, Oct 2011; Int. Conf. on Signal Processing and Multimedia Application (SIGMAP), Seville, Spain, July 2011; IEEE Int. Conf. on Multimedia and Expo (ICME), Barcelona, Spain, July 2011; APSIPA Annual Summit and Conference (ASC), Xian, China, Jun 2011; 3DTV Conference (3DTV-CON), Antalya, Turkey, May 2011; IEEE Int. Conf. on Acoustics, Speech and Signal Processing (ICASSP), Prague, Czech Republic, Mar 2011; and Track Chair/Technical Program Committee, IEEE Int. Conf. on Image Processing (ICIP), Brussels, Belgium, Sept. 2011.

- **A. Enis Cetin**, Technical Program Committee, 20th International Conference on Pattern Recognition (ICPR 2010), Istanbul, 23-26/8/2009
- **Mrityunjay Chakraborty**, TC Chair, APSIPA (Asia Pacific Signal and Information Processing Association); TC on Information Processing Theory and Methods and Publicity co-chair, APSIPA ASC 2011, Xian, China.
- **Linda S. DeBrunner**, General Chair, 44th Annual Asilomar Conference on Signals, Systems, and Computers, November 7-10, 2010, Pacific Grove, CA.
- **Tian-Bo Deng**, Technical Program Committee (TPC) Member, IEEE International Conference on Communications (ICC 2011), June 5-9, Kyoto, Japan; 2010 IEEE International Symposium on Communications and Information Technologies (ISCIT 2010), Tokyo, Japan, 2011; IEEE International Symposium on Communications and Information Technologies (ISCIT 2011), Oct. 12-14, Hangzhou, China; the first IEEE International Conference on Green Circuits and Systems (ICGCS 2010), June 21-23, Shanghai, China, 2010; and Publicity Chair, 2010 International Workshop on Information Communication Technology (ICT 2010), August 24 - 25, 2010, Bangkok, Thailand
- **Karen Egiazarian**, Co-chair of Image Processing: Algorithms and Systems conference, Electronic Imaging Symposium, SPIE, San Francisco, 2010, 2011; member of the TPC, 3rd European Workshop on Visual Information Processing, EUVIP2011, July 4-6, 2011, Paris, France; ISE Image Sensors Europe, 2011, 2012, 20-22 March, London, UK; International Symposium on Electronics and Telecommunications ETC 2010, Timisoara, Nov. 11-12, 2010; 10th International Symposium on Signals, Circuits and Systems, ISSCS 2011, June 30-July 1, 2011, Iasi, Romania.
- **Moncef Gabbouj**, member of the TPC 3rd European Workshop on Visual Information Processing, EUVIP2011, July 4-6, 2011, Paris, France; CBMI 2011, Innovation co-chair IEEE ICIP 2011, and Technical Program co-chair of ISCCSP 2012, May 2012, Rome, Italy.
- **Oscar Gustafsson**, TPC co-chair of second Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia 2010), Shanghai, China, September 22-24, 2010; Track chair, International ICST Conference on Cognitive Radio Oriented Wireless Networks and Communications (CrownCom 2010), June 9-11, 2010, Cannes, France; European Conference on Signal Processing (Eusipco), August 23-27, 2010, Aalborg, Denmark; TPC member, Int. Workshop on Power and Timing Modeling, Optimization and Simulation (PATMOS 2010), Grenoble, France,

September 7-10, 2010; International Conference on Green Circuits and Systems (ICGCS 2010) in Shanghai, China from June 21-23, 2010; International Conference on Communications and Signal Processing (ICCSP 2010), Calicut, India, February 10-12, 2011; International Workshop on Power and Timing Modeling, Optimization and Simulation (PATMOS 2011), Madrid, Spain, September 26-29, 2011; European Signal Processing Conference (EUSIPCO 2011), Barcelona, Spain, August 29-September 2, 2011; Financial Chair, 20th European Conference on Circuit Theory and Design (ECCTD 2011), Linköping, Sweden, August 29-31, 2011; Student Paper Contest Chair, Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, USA, November 6-9, 2011.

- **Takao Hinamoto**, Technical Program Committee of 2010 10th IEEE International Conference on Signal Processing (ICSP'10), October 24-28, 2010, Beijing, China.
- **Dominic K. Ho**, TPC, IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing, CAMSAP 2011, San Juan, Puerto Rico); IEEE Int. Conference on Communications (ICC2011), Kyoto, Japan, June 5-9, 2011; IEEE Globecom 2011, Houston, TX, December 5-9, 2011; Sensor Array and Multichannel Technical Committee, IEEE Int. Conference on Acoustics, Speech, Signal Processing, Prague, Czech Republic, May 22-27, 2011.
- **Gwee Bah Hwee**, Technical Program Chair of International Symposium of Integrated Circuits 2010, Dec 2010, Singapore
- **Håkan Johansson**, Technical Program Committee Member of IEEE Global Communications Conference, Globecom 2010, Miami, Florida, USA (Signal Processing for Communications Track); IEEE International Conference on Communications, ICC 2011, Kyoto, Japan, (Signal Processing for Communications Track); 10th International Symposium on Communications and Information Technologies, ISCIT 2010, Tokyo, Japan; the IEEE GC'11 – SPC; IEEE GLOBECOM 2011 - Signal Processing for Communications Symposium, Houston, Texas, USA, Dec. 5-9, 2011; the I-WASP 2011, International Workshop on Applications of Signal Processing, July, 22-24, Kochi, Kerala, India, 2011; the Signal Processing and Applications (SPA) track of Mosharaka International Conference on Communications and Signal Processing, MIC-CSP, 2011; the 7th International Symposium on Image and Signal Processing and Analysis (ISPA), Dubrovnik, Croatia, Sept. 4-6, 2011; the IEEE International Conference on Communications (ICC), Ottawa, Canada, 2012; Special Session Organizer at the 20th European Conference on Circuit Theory and Design (ECCTD-2011), Linköping, Sweden, Aug. 29-31, 2011.
- **Izzet Kale**, Reviews for ISCCSP 2010; Organizer and Chair, IEEE UKRI Section Co-Sponsored one day, Workshop on GNSS Receivers, at University of Westminster, 2010; Technical Program Committee Member and session chair, I2MTC 2010, International Instrumentation and Measurement Technology; Technical Program Committee Member, MMS'2010, Mediterranean Microwave Symposium, and International Advisory Committee Member

APCCAS 2010, the 11th Biennial Asia Pacific Conference on Circuits and Systems.

- **Lina Karam**, General Chair (together with Ron Schafer), IEEE Digital Signal Processing (DSP) and Signal Processing Education (SPE) Workshops, Sedona, AZ, 2011; Co-founder and Steering Committee Member, International Workshop on Quality of Multimedia Experience: QoMEX 2009 (San Diego), QoMEX 2010 (Norway), and QoMEX 2011 (Belgium); Tutorials Co-Chair, 2012 IEEE International Conference on Image Processing, Orlando, Florida; Technical Area Chair, 2010 IEEE International Conference on Image Processing (ICIP); Technical Area Chair, 2010 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP); Technical Area Chair, 2011 IEEE International Conference on Image Processing (ICIP); Technical Area Chair, 2011 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP).
- **Ted Kok**, Member of Technical Committee of 2010 European Conference on Signal Processing, August 23 ~ 27, 2010, Aalborg, Denmark; Review Committee Member of 2010 IEEE International Conference on Image Processing, Sept. 26 ~ 29, 2010, Hong Kong, 2010; IEEE 23rd Canadian Conference on Electrical and Computer Engineering, May 2 ~ 5, 2010, Calgary, Alberta, Canada; Member of Technical Committee and Local Arrangement Chair of 2010 IEEE Electron Device and Solid State Circuit Conference, December 15 ~ 17, 2010, Hong Kong; International Symposium on Communications and Information Technologies 2010 (ISCIT 2010), Oct 26 ~ 29, 2010, Tokyo, Japan; Member of Technical Committee of 2011 European Conference on Signal Processing, Aug 29 ~ Sept 2, 2011, Barcelona, Spain; IEEE Int. Conf. on Image Processing, (ICIP), Brussels, Belgium, Sept. 2011; IEEE Int. Conf. on Mechatronics, 2011, May 17 ~ 19, Kuala Lumpur, Malaysia.
- **H. K. Kwan**, Co-chair, Technical Program Committee, Signal Processing Symposium, International Conference on Communications, Circuits and Systems (ICCCAS), Chengdu, China, July 28-30, 2010; Program Committee Member, Fuzzy Neural Networks Track & Bioinformatics Track, Seventh International Symposium on Neural Networks (ISNN), Shanghai, China, June 6-9, 2010; International Liaison Co-Chair, IEEE International Conference on Green Circuits and Systems (ICGCS), Shanghai, China, June 21-23, 2010; Technical Program Committee Member, Fuzzy image processing Track, CI in bioinformatics Track, Multi-objective optimization Track, Fourth International Workshop on Advanced Computational Intelligence (IWACI 2011), Wuhan, China, October 19-21, 2011.
- **Yong Lian**, Technical Program Committee Member of the 36th European Solid-State Circuits Conference ESSCIRC'2010, September 13-18, 2010, Seville, Spain; the 9th International Conference on ASIC (ASICON 2011), October 25-28, 2011, Xiamen, China; the 37th European Solid-State Circuits Conference ESSCIRC'2011, September 12-16, 2011, Helsinki, Finland; the 20th European Conference on Circuit Theory and Design (ECCTD 2011), August 29 – 31, 2011, Linkoping, Sweden; Plenary Session Chair of the International Conference on Body Sensor Networks(BSN'2010), June, 2010,

Singapore; Special Session Chair, 2012 IEEE Symposium on Circuits and Systems (ISCAS'2012), May 2012, Korea.

- **Yong Ching Lim**, General Co-Chair, Founder and TPC Co-Chair the First International Conference on Green Circuits and Systems, June 21-23, Shanghai, China; General Chair of the second Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia 2010) in Shanghai, China from Sept. 22-24, 2010; Technical Program Committee Member of the 2010 International Conference on Solid-State and Integrated Circuit Technology, Nov. 2010, Shanghai, China; International Advisory Committee Member of the 2010 IEEE International Conference on Ultra-Wideband(ICUWB'2010), September 20-23, 2010, Nanjing, China.
- **Yoshikazu Miyanaga**, TPC Chair, 2010 International Workshop on Information Communication Technology (ICT 2010), August 24 - 25, 2010, Bangkok, Thailand; General Vice-Chair, 2010 International Symposium on Multimedia and Communication Technology (ISMAC 2010), September 8 - 9, 2010, Diamond Hotel, Manila, Philippines; General co-Chair, 2011 International Symposium on Multimedia and Communication Technology (ISMAC 2011), Hokkaido University, Sapporo, Japan, September 1 - 2, 2011; 2011 APSIPA Annual Summit and Conference (APSIPA ASC 2011), Xian, China, October 18 – 21, 2011; International Steering Committee Chair, International Symposium on Communications and Information Technologies (ISCIT 2011, IEEE), Hangzhou, China, October 12-14, 2011; International Advisor Committee Chair, International Workshop on Smart Info-Media Systems in ASIA (IEICE SISB 2011), Nagasaki, Japan, October 31 - November 2, 2011; International Steering Committee Member, International Symposium on Intelligent Signal Processing and Communication Systems 2011 (ISPACS 2011, IEEE), December 7 - 9, 2011, ChiangMai, Thailand; Tutorial co-Chair, IEEE International Conference on Acoustics, Speech, and Signal Processing 2012 (IEEE ICASSP 2012), March 25-30, 2012, Kyoto, Japan; General Chair, IEICE International Technical Conference on Circuits/Systems, Computers and Communications 2012 (IEICE ITC-CSCC 2012), July 15 - 18, 2012, Sapporo, Japan; General co-Chair, International Symposium on Communications and Information Technologies (ISCIT 2012, IEEE), Gold Coast, Australia, October 2 - 5, 2012.
- **Tokunbo Ogunfunmi**, Sub-Track Chair, Adaptive Digital Signal Processing and Wireless Communications Track, 54th Midwest Symposium on Circuits and Systems (MWSCAS), Seoul, Korea, Aug. 2011. Invited Paper, Member TC, Information Processing Theory and Methods, APSIPA (Asia Pacific Signal and Information Processing Association), Singapore, Dec. 2010; General Co-chair, International Conference on Adaptive Science and Technology (ICAST), Abuja, Nigeria, Nov, 2011; Technical Program Committee Member, IEEE/ECSI/ EURASIP Conference on Design and Architectures for Signal and Image Processing (DASIP), Edinburgh, UK, Oct. 2010; Member; IEEE Signal Processing Society (SPS) Workshop on Signal Processing Implementation Systems (SiPS), Cupertino, CA, Nov. 2010.

- **Ioannis Pitas**, Technical Program Committee, 2010 International Joint Conference on Neural Networks (IJCNN 2010), Barcelona, Spain, 18-23/7/2010; 3rd IEEE Workshop on CVPR for Human Communicative Behaviour Analysis, 18/6/2010, San Francisco, USA; Workshop on Pattern Analysis and Recognition (PAR2010, part of the International Conference on High Performance Computing & Simulation HPCS 2010), Caen, France, 28/6-2/7/2010; 20th International Conference on Pattern Recognition (ICPR 2010), Istanbul, 23-26/8/2009; BEST Biometrics conference (BIOSIG 2010), Darmstadt, 9-10/9/2010; 1st Int. Workshop on Human Behaviour Understanding (co-organized with ICPR2010), Istanbul, Turkey, August 2010; IEEE Workshop on Machine Learning for Signal Processing (MLSP), Kittila, Finland, 2010; 15th Iberoamerican Congress on Pattern Recognition - CIARP'2010, 8-11/11/2010, Sao Paulo, Brazil; 2nd Activity Monitoring by Multi-Camera Surveillance Systems (AMMCSS) Workshop, Boston, 29/8/2010; International Symposium on Electronics and Telecommunications ETC 2010, Timisoara, 11-12/11/2010; European Signal Processing Conference (EUSIPCO 2010, Aalborg, Denmark, 23-27/8/2010; 12th Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON 2010), Porto Carras, Greece 27-30/5/2010; 2010 International Joint Conference on Neural Networks (IJCNN 2010), Barcelona, Spain, 18-23/7/2010; Organic computing workshop at the IEEE Symposium Series on Computational Intelligence (SSCI), Paris, April 2010; IEEE International Conference on Intelligent Human Computer Interaction, 1/2010, (IHCI2010), Allahabad, India, ICISP (International Conference on Image and Signal Processing), Trois-Rivières, Québec, Canada, 30/6-2/7/2010; CompIMAGE'2010 Symposium - Computational Modeling of Objects Represented in Images: Fundamentals, Methods and Applications, 5-7/5/2010, Buffalo, NY, USA.
- **Tapio Saramäki**, Steering Committee Member of the International Symposium on Image and Signal Processing and Analysis (ISPA); Publicity Chair, International Conference on Green Circuits and Systems (ICGCS 2010), June 21 - 23, 2010, Shanghai, China; Technical Program Co-Chair, 20th European Conference on Circuit Theory and Design 2011 (ECCTD 2011), August 29 - 31, 2011, Linköping, Sweden.
- **W.C. Siu**, General Chair, (ICIP'2010), IEEE International Conference on Image Processing, IEEE Hong Kong Centre, HK Convention and Exhibition Centre, September 2010, Hong Kong; Honorary Chair, PCM'2010, Pacific-Rim Conference on Multimedia, 21-24 September 2010, Shanghai China; Member of the Technical Program Committee (TPC), sub-track: Image, video, and multimedia signal processing; APSIPA Annual Summit and Conference 2010, 14-17 December 2010, Singapore; 10th International Symposium on Communications and Information Technologies (ISCIT 2010), 26-29 October 2010, Meiji University, Tokyo Japan; 18th European Signal Processing Conference (EUSIPCO'2010), 23-27 August, 2010, Aalborg Denmark; International Conference on Signal Processing (ICSP'2010), 24-28 October, 2010, Beijing, China; Visual Communications and Image Processing 2010 (VCIP 2010) on July 11-14, 2010, Huang Shan, China.

- **Andreas Spanias**, Industry Liaison and Program Committee IEEE Digital Signal Processing (DSP) and Signal Processing Education (SPE) Workshops, Sedona, AZ, 2011.
- **Thanos Stouraitis**, General Chair, IEEE Int. Conference on Electronics, Circuits and Systems, ICECS, 2010, Athens, Greece; and General Chair, IEEE CAS-FEST 2010, Dec. 12, 2010, Athens, Greece.
- **Akira Taguchi**, Special Session Chair of the 2010 International Symposium on Communications and Information Technologies (ISCIT'2010), Tokyo, Japan, October 2010; International Workshop on Smart Info-Media Systems in ASIA (IEICE SISA 2011), Nagasaki, Japan, October 31 - November 2, 2011; IEEE International Conference on Acoustics, Speech, and Signal Processing 2012 (IEEE ICASSP 2012), March 25-30, 2012, Kyoto, Japan; International Steering Committee member of 2010 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2010), Cheng Du, China, December 2010; International Symposium on Intelligent Signal Processing and Communication Systems 2011 (ISPACS 2011, IEEE), December 7 - 9, 2011, ChiangMai, Thailand.
- **Wei Xing Zheng**, Co-Chair of the 2010 World Congress on Intelligent Control and Automation (WCICA'2010), Jinan, China, July 2010; International Program Committee Member of the 2010 International Conference on Intelligent Control and Information Processing (ICICIP 2010), Dalian, China, August 2010; the 2010 IEEE International Conference on Automation and Logistics (ICAL'2010), Hong Kong, August 2010; 2010 IEEE International Symposium on Intelligent Control (ISIC'2010), Pacifico Yokohoma, Japan, September 2010; 2010 International Symposium on Communications and Information Technologies (ISCIT'2010), Tokyo, Japan, October 2010; the 49th IEEE Conference on Decision and Control (CDC'2010), Atlanta, USA, December 2010; the 2010 IEEE International Conference on Networking, Sensing and Control (ICNSC'2011), Delft, The Netherlands, April 2011; the 2011 International Conference on Multimedia and Signal Processing (CMSP'2011), Guilin, China, May 2011; the 8th Asian Control Conference (ASCC'2011), Kaohsiung, Taiwan, May 2011; the 23rd Chinese Control and Decision Conference (CCDC'2011), Mianyang, Sichuan, China, May 2011; the 30th Chinese Control Conference (CCC'2011), Yantai, China, July 2011; the 2011 International Conference on Intelligent Control and Information Processing (ICICIP'2011), Harbin, China, July 2011; the 2011 Australian Control Conference (AUCC'2011), Melbourne, Australia, September 2011; and Publicity Committee Co-Chair of the 8th IEEE International Conference on Information and Automation (ICIA'2011), Shenzhen, China, June 2011.
- **Li Xu**, Member of Technical Program Committee of the 2010 Chinese Control and Decision Conference (CCDC'2010), Xuzhou, Henan, China, May 2010; the 10th International Symposium on Communications and Information Technologies (ISCIT 2010), Tokyo, Japan, Oct. 25-29, 2010; the 2010 APSIPA Annual Summit and Conference (APSIPA ASC 2010), Singapore, Dec. 14-17, 2010; the 23rd Chinese Control and Decision Conference (CCDC 2011), Mianyang, China, May 23-25, 2011.

3 Books and Book Chapters:

- A. Danielyan, A. Foi, V. Katkovnik, **K. Egiazarian**, 2010. Spatially adaptive filtering as regularization in inverse imaging: Compressive sensing, super-resolution, and upsampling. In: Milanfar, P. (ed.), *Super-Resolution Imaging* Boca Raton, FL. CRC Press. pp. 123-153.
- S. Aгаian, H. Sarukhanyan, **K. Egiazarian**, and J. Astola, 2011, Hadamard Transforms, SPIE Publishers.
- **O. Gustafsson** and L. Wanhammar, Arithmetic, in *Handbook of Signal Processing Systems*, Springer, 2010.
- **O. Gustafsson** and L. Wanhammar, Low-complexity and high-speed constant multiplications for digital filters using carry-save arithmetic, in *Digital Filters*, Intech, 2011.
- **H.K. Kwan** and A. Jiang, Integrated Design of IIR Variable Fractional Delay Digital Filters with Variable and Fixed Denominators, in *Digital Filters*, Fausto Pedro García Márquez (Ed.), Chapter 8, pages 179-208, April 2011, ISBN: 978-953-307-190-9, InTech Open Access Publisher.
- **I. Pitas**, *Digital Television and digital video processing*, Thessaloniki, 2010 (in Greek).
- **I. Pitas**, *Digital Image Processing*, Thessaloniki, 1996, 2010 (in Greek).
- M. Kyperountas, A. Tefas, and **I. Pitas**, Discriminant learning in large databases using training space partitioning, in *Advances in Face Image Analysis – Techniques and Technologies*, edited by: Yu-Jin Zhang, IGI Global, July 2010.
- G. Goudelis, A. Tefas and **I. Pitas**, Intelligent Multimedia Analysis for Emerging Biometrics in *Intelligent Multimedia Analysis for Security Applications*, edited by: Springer, 2010.
- A. Tefas and **I. Pitas**, Principal Component Analysis in *The Industrial Electronics Handbook*, edited by Bodgan Wilamowski and J. David Irwin, CRC press, 2010.
- S. Asteriadis, N. Nikolaidis and **I. Pitas**, A Review of Facial Feature Detection Algorithms, in *Advances in Face Image Analysis – Techniques and Technologies*, Editor Yu-Jin Zhang, IGI Global, July 2010.
- J. Yli-Kaakinen and **T. Saramäki**, A Systematic Algorithm for the Synthesis of Multiplierless Lattice Wave Digital Filters," invited book chapter in *Digital filters*, edited by Fausto Pedro García Márquez, ISBN: 978-953-307-190-9, Intech, pp. 257–289, Apr. 2011.
- N. Ramamurthy Karthikeyan, **Andreas S. Spanias**, MATLAB® Software for the Code Excited Linear Prediction Algorithm: The Federal Standard-1016, Morgan and Claypool Publishers, Synthesis Lectures on Algorithms and Software in Engineering, Jan 2010, Vol. 2, No. 1, Pages 1-109: 1-109, ISBN 1608453847.
- Ke Lin Du and **M.N.S. Swamy**, "Wireless Communication Systems", Cambridge University Press, 2010.

- R. Raut and **M.N.S. Swamy**, "Modern Analog Filter Analysis and Design" transceivers for OFDM and DMT systems", Wiley-VCH, 2010.
- **P. P. Vaidyanathan**, See-May Phoong, and Yuan-Pei Lin, "Signal Processing and Optimization for transceiver Systems", Cambridge University Press, 2010.
- Yuan-Pei Lin, See-May Phoong, and **P. P. Vaidyanathan**, "Filter bank transceivers for OFDM and DMT systems", Cambridge University Press, 2010.
- A. Kushki, K.N. Plataniotis, and **A.N. Venetsanopoulos**, "Nonparametric Techniques for Pedestrian Tracking in Wireless Local Area Networks", Handbook on Sensor and Array Processing, S. Haykin and K.S.R. Liu, Editors, IEEE-Wiley, 2010.
- Sahba, F., and **Venetsanopoulos, A.N.**, "Fuzzy Approach to Contrast Enhancement of Mammography Breast Image Analysis", a chapter in the book "Advances in Computational Biology", Springer-Verlang, August 2010, pp. 619-626.

4 Short Courses:

- **Mrityunjoy Chakraborty** "Advanced DSP Design Techniques", June 28 – July 2, 2010, Indian Institute of Technology, Kharagpur.
- **Mrityunjoy Chakraborty**, "VLSI Signal Processing", Dec. 19 – 23, 2010, Indian Institute of Technology, Kharagpur.
- **Izzet Kale**, "DSP and Communication Processor Design", a one week n industrial short course, presented at the University of Westminster, Feb 2010.
- **Izzet Kale** "DSP and Communication Processor Design", a one week n industrial short course, presented at the University of Westminster, Feb 2011.
- **Andreas Spanias**, Adaptive Signal Processing, June 18, 2010, ASU, Tempe AZ, USA.

5 Plenary Sessions, Keynote Speakers, Invited Lectures:

- **Oscar Au**, "Can we get more than 1 pixel resolution out of 1 pixel?" IEEE Harbin Section, Harbin, China, Dec 2010.
- **Oscar Au**, "Joint Compression and Encryption for Multimedia Protection," DLP seminar, IEEE Bangkok Section, Bangkok, Thailand, Dec. 2010.
- **Oscar Au**, "Exploring characteristics, capabilities, system designs, and applications of distributed video coding (DVC)," DLP seminar, IEEE Singapore Section, Singapore, Dec 2010.
- **Oscar Au**, "Can we get more than 1 pixel resolution out of 1 pixel?" DLP seminar, IEEE Beijing Section, Beijing, China, Dec. 2010.
- **Oscar Au**, "Can we get more than 1 pixel resolution out of 1 pixel?" invited seminar, Beijing Institute of Technology 70th Anniversary, Beijing, China, Jun 2010.
- **Oscar Au**, "Can we get more than 1 pixel resolution out of 1 pixel?" invited seminar, Shanghai University, Shanghai, China, Jun 2010.

- **Karen Egiazarian**, Tutorial, IEEE International Conference Image Processing, Sept. 26, Hong Kong
- **Moncef Gabbouj**, "The new digital signal processing technology: particle swarm optimization," International Workshop on Information Communication Technology, August 24-25, 2010, KMITL, Bangkok, Thailand
- **Moncef Gabbouj**, "Multidimensional Particle Swarm Optimization and Applications in Data Clustering and Image Retrieval," International Conference on Image Processing Theory, Tools and Applications, IPTA 2010, 5-7 July 2010, Paris, France
- **Gwee Bah Hwee**, "Low Power Asynchronous-Logic Circuit Design," CASS DL Royal Melbourne Institute of Technology, Melbourne, Australia, Dec 3, 2010
- **Gwee Bah Hwee**, "Micropower Low-Voltage Digital Class D Amplifier for Hearing Aid Applications," CASS DL Qualcomms, Santa Clara, USA, August 17, 2010
- **Gwee Bah Hwee**, "Low Power Asynchronous-Logic Circuit Design," CASS DL, Bilkent University, Turkey, Dec 28, 2010
- **Izzet Kale**, "Highlights of Communications, Navigation and Image Processing Research at the ADVRG" *IEEE UKRI* Section, Invited Seminar, March 2011, University of Kent, Canterbury, England.
- **Lina Karam**, "Foundations and Trends of Visual Quality Assessment," 2nd International Workshop on Visual Information Processing (EUVIP), Paris, France, 2010
- **Lina Karam**, "Visual Quality Assessment," American University of Beirut, Beirut, Lebanon, 2010.
- **Yong Lian**, "The Design of Sub-mW Wireless Implantable EEG Device," IEEE CAS-FEST Workshop on Brain-Machine/Brain-Computer Interfaces, Rio de Janeiro, Brazil, May 15, 2011.
- **Yong Lian**, "Towards Self-Powered Wireless Biomedical Devices," Shanghai Jiao Tong University, invited talk, Shanghai, China, Dec. 27, 2010.
- **Yong Lian**, "Towards Self-Powered Wireless Biomedical Devices," Invited Talk, University of Toronto, Toronto, Canada, Dec. 20, 2010.
- **Yong Lian**, "Towards Self-Powered Wireless Biomedical Devices," Invited Talk, University of British Columbia, Vancouver, Canada, Dec. 14, 2010.
- **Yong Lian**, "The Design of ECG-on-Chip," Invited Talk, Simon Fraser University, Vancouver, Canada, Dec. 3, 2010.
- **Yong Lian**, "Towards Self-Powered Biomedical Devices," *The 28th Norchip Conference(Norchip 2010)*, Tampere, Finland, 15-16 Nov. 2010.
- **Yong Lian**, "Towards Sub-mW Wireless Implantable EEG Sensors," Invited presentation, The 3rd International Forum on Systems and Mechatronics, Singapore, 6-9 Sept. 2010.

- **Yoshikazu Miyanaga**, Plenary Lecture of IEEE CASS DLP, Robust Speech Recognition and its LSI Design, Manira, Philippines, June 13, 2010
- **Yoshikazu Miyanaga**, Plenary Lecture of IEEE CASS DLP, Design of Over GIGA bit Wireless LSI systems, Shanghai, China, November 12, 2010
- **Yoshikazu Miyanaga**, Plenary Lecture of IEEE CASS DLP, Design of Over GIGA bit Wireless LSI systems, Johor, Malaysia, December 13, 2010
- **Yoshikazu Miyanaga**, Invited Lecture, Next Generation Wireless Communication Systems, Bangkok, Thailand, February 25, 2011
- **Yoshikazu Miyanaga**, Plenary Lecture of IEEE CASS DLP, Next Generation Wireless Communication Systems, Santa Clara, USA, March 21, 2011
- **Yoshikazu Miyanaga**, Invited Lecture, Robust Speech Recognition and its Robot Implementation, Bangkok, Thailand, March 30, 2011
- **Tokunbo Ogunfunmi**, Invited Talk, Hardware Architectures for Motion Estimation in H.264/AVC Video Coding, Universidade Federal do Rio Grande do Sul (UFRGS), *Informatics Insitute*, Porto Alegre, Brazil, May 2011.
- **Tokunbo Ogunfunmi**, Invited Talk, Algorithms for Motion Estimation in H.264/AVC Video Coding, IEEE Circuits and Systems Local Chapter, Porto Alegre, Brazil, May 2011.
- **Tokunbo Ogunfunmi**, Invited Talk, An Alternative View of Nonlinear Adaptive Filters, *IEEE Asilomar Conference on Circuits, Systems and Computers*, Asilomar, CA, Nov. 2010.
- **Ioannis Pitas**, Invited lecture on ‘Dyneme representation for human action recognition’, CNR, Pisa, 29/4/2011
- **Ioannis Pitas**, Invited lecture on ‘Human centered Video Analysis For Multimedia Postproduction’, International Symposium on Electronics and Telecommunications ETC 2010, Timisoara, Romania 11-12/11/2010
- **Ioannis Pitas**, Invited lecture on ‘Anthropocentric Video Analysis For Postproduction’, Erciyes University, 27/8/2010
- **Ioannis Pitas**, Invited lecture on ‘Anthropocentric Video Analysis For Film and Games Postproduction’,
- **Ioannis Pitas**, International Conference on Computer Systems and Technologies CompSysTech'10, Sofia, Bulgaria, 17-18/6/2010.
- **W.C. Siu**, Keynote Speaker, “Video Monitoring and 3D Videos: New Research and Application Perspectives”, the 4th International Conference on Intelligent Information Technology Application (IITA2010) 5-7 November, 2010, Qinhuangdao, China.
- **W.C. Siu**, Keynote Speaker, “Challenges from HDTV Coding, Video Monitoring to 3D Videos”, 2010 Second International Conference on Intellectual Technology in Industrial Practices (ITIP2010) 8-9 September, 2010, Changsha, China.
- **W.C. Siu**, Invited Speaker, Seminar on Image Processing Technologies and their Applications to Automobile Industry, organized by Productivity Council, 27 January 2011, Rm. AG710, Hong Kong Polytechnic University, Hong Kong (Topic presented: “Object Recognition and Tracking in Videos and the 3D world”).

- **W.C. Siu**, Invited Speaker, Summit infoComm asia, 17-19 November , 2010, Hong Kong Convention & Exhibition Centre, Hong Kong (Topic presented, “Challenges in 3D Video Coding and its Applications”).
- **W.C. Siu**, Invited Speaker, ASTRI Tech Forum on “Emerging Technologies and Trends in Video Processing”, 26 November 2009, Hong Kong. (Topic presented: New Challenges from Video Coding to Super-Resolution Videos.)
- **A.N. Venetsanopoulos**, "Multimedia Image Processing and Content Based Image Retrieval", the Royal Society of Canada, Ottawa, Canada, November 2010.

6 Editorial Services:

- **Oscar Au**, Associate Editor, IEEE Trans. On Circuits & Systems for Video Technology (TCSVT); IEEE Trans. on Image Processing (TIP); Member of Editorial Board, Journal of Multimedia (JMM), Journal of Franklin Institute (JFI), Journal of Signal Processing Systems (JSPS), and Journal of Data Acquisition and Processing (JDAP)
- **Mrityunjoy Chakraborty**, Associate Editor, IEEE Transactions on Circuits and Systems, Part I.
- **A. Enis Cetin**, Associate Editor, Journal of Advances in Signal Processing, EURASIP and Journal of Machine Learning and Applications, Springer
- **Linda DeBrunner**, Associate Editor, Journal of Circuits, Systems, and Computers (JCSC)
- **Tian-Bo Deng**, Editorial Board Member of Signal Processing (Elsevier)
- **Karen Egiazarian**, Associate Editor, Journal of Electronic Imaging, SPIE; Member of Editorial Board, Journal of Electrical and Computer Engineering, Hindawi
- **Oscar Gustafsson**, Associate Editor, IEEE Transactions on Circuits and Systems II, and Integration, the VLSI Journal.
- **Dominic K. Ho**, Associate editor, IEEE Transactions on Signal Processing
- **Gwee Bah Hwee**, Associate Editor, IEEE Transactions on Circuits and Systems II, and Journal of Circuits, Systems and Signal Processing
- **Lina Karam**, Guest Editor, IEEE Signal Processing Magazine, Special Issue on Multimedia Quality Assessment; and EURASIP Journal on Image and Video Processing; Editorial Board, Foundations and Trends in Signal Processing; Associate Editor, IEEE Transactions on Image Processing.
- **Ted Kok**, Member of Editorial Board, ISRN Signal Processing
- **Yong Lian**, Editor-in-Chief, IEEE Transactions on Circuits and Systems Part II; Associate Editor, IEEE Transactions on Biomedical Circuits and Systems and IEEE Technology News; Steering Committee Member, IEEE Transactions on Biomedical Circuits and Systems; Guest Editor for the IEEE Transactions on Circuits and Systems I, Special Issue on Selected Papers from ISCAS 2010, and IEEE Transactions on Biomedical Circuits and Systems, Special Issue on Selected Papers from BSN 2010.
- **Zhiping Lin**: Editor-in-Chief, Multidimensional Systems and Signal Processing and Associate Editor, IEEE Transactions on Circuits and Systems II

- **Yoshikazu Miyanaga**, Associate Editor, Journal of Signal Processing, Japan
- **Tokunbo Ogunfunmi**, Associate Editor, Circuits, Systems and Signal Processing.
- **Ravi Prakash Ramachandran**, Editorial Board, IEEE Circuits and Systems Magazine and Guest Editor of IEEE Circuits and Systems Magazine, Special Issue on Speaker and Language Recognition, June 2011.
- **A. Spanias**, Associate Editor, Signal Processing Research Letters, and Book Lecture Series Editor, Morgan and Claypool Publishers
- **W.C. Siu**, Associate Editor, IEEE Transactions on Image Processing, 2010-13, IEEE.
- **W.C. Siu**, Associate Editor, Journal of VLSI Signal Processing Systems for Signal, Image and Video Technology, since January 1996, Kluwer Academic Publisher.
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- **David Tay**, Associate Editor, Multidimensional Systems and Signal Processing
- **Li Xu**, Associate Editor, Multidimensional Systems and Signal Processing.
- **Yajun Yu**, Associate Editor, IEEE Transactions on Circuits and Systems Part II and Journal of Circuits, systems and Signal Processing.
- **Wei Xing Zheng**, Associate Editor, IEEE Signal Processing Letters, Automatica and Guest Associate Editor of Special Issue on Blind Signal Processing and Its Applications, as well as IEEE Transactions on Circuits and Systems-I.

7 IEEE Services:

- **Oscar Au**, IEEE CAS Society Distinguished Lecturer, 1/2009 to 12/2010, Past Chairman, IEEE CAS TC on Multimedia Systems and Applications (MSATC), Member, IEEE CAS TC on Visual Signal Processing and Communications (VSPC), IEEE SP TC on Multimedia Signal Processing (MMSP), IEEE SP TC on Image, Video and Multi-dimensional Signal Processing (IVMSP), IEEE COM TC on Multimedia Communications (MMTC) and Member, Steering Committee, IEEE Int. Conf. on Multimedia and Expo (ICME)
- **A. Enis Cetin**, IEEE SP Society, SPTCM Committee Member.
- **Moncef Gabbouj**, IEEE Student Branch Counsel, TUT, Tampere, Finland
- **Oscar Gustafsson**, Treasurer, IEEE Solid-State Circuits Society Swedish Chapter.
- **Gwee Bah Hwee**, DLP, CAS Society, 2010 and Singapore Chapter Deputy Chair, 2011
- **Izet Kale**, Executive Committee Member for the IEEE United Kingdom and Republic of Ireland Section; Chapter Coordinator for all the Chapters of the IEEE United Kingdom and Republic of Ireland Section; Chapter Chair, IEEE United Kingdom and Republic of Ireland Section, Circuits and Systems Chapter; Chapter Chair (and founder), IEEE United Kingdom and Republic of Ireland Section, Instrumentation and Measurement Chapter; and Student Branch Counsel IEEE UKRI Section, , University of Westminster, London, England

- **Lina Karam**, Elected Member of the IEEE Signal Processing Society's Image, Video, and Multidimensional Signal Processing (IVMSP) Technical Committee; Elected Member of the IEEE Signal Processing Society's Education Committee; Member, IEEE Signal Processing Society's Nomination and Awards Committee; Member, IEEE Signal Processing Society's COS Advisory Committee; Associate Editor, IEEE Transactions on Image Processing; Guest Editor, IEEE Signal Processing Magazine; General Chair, 2011 IEEE DSP/SPE Workshop; Tutorial Chair, 2012 IEEE ICIP; General Chair, 2016 IEEE ICIP
- **Raija Lehto**, IEEE CAS GOLD Committee member, 2011- 2012.
- **Yong Lian**, Member, IEEE Life Science New Initiative Committee, Member, IEEE Fellow Evaluation Committee of the IEEE Circuits and Systems Society, Member, Prize Paper Award Committee of the IEEE Circuits and Systems(CAS) Society, Panel Judge for the Best Student Paper Awards in the IEEE International Symposium on Circuits and Systems, May 2010, Paris, France, Chair, Digital Signal Processing Technical Committee, IEEE Circuits and Systems Society, Member, the IEEE Medal for Innovations in Healthcare Technology Committee of IEEE Awards Board.
- **Yoshikazu Miyanaga**, BoG, CAS Society, 2011 – 2012 and DLP, CAS Society, 2010 – 2011 (March)
- **Tokunbo Ogunfunmi** serves as the Secretary of the Technical Committee on Circuits and Systems for Education and Outreach (CASEO), IEEE Circuits and Systems Society.
- **Ioannis Pitas**, 2011 Member of the IEEE Signal Processing society awards board
- **A. Spanias**, Member, IDSP committee, IEEE SPS.
- **W.C. Siu**, Member, Conference Board and its Execution Committee, Signal Processing Society, IEEE, 2009-2011
- **Thanos Stouraitis**, President Elect, IEEE CASS
- **Li Xu**, Member of the IEEE Sendai Section Executive Committee (2008-2011)
- **Wei Xing Zheng** serves as the Chair of Technical Committee on Blind Signal Processing, IEEE Circuits and Systems Society and the International Steering Committee of the IEEE Asia Pacific Conference on Circuits and Systems (APCCAS).

8 DSP TC Technically Co-Sponsored Conferences/Symposia/Workshops:

- 2010 International Symposium on Communications and Information Technologies (ISCIT 2010, IEEE), Tokyo, Japan, October 26 - 29, 2010.
- 2010 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2010, IEEE), Chengdu, China, December 6 - 8, 2010.
- 2011 International Symposium on Communications and Information Technologies (ISCIT 2011, IEEE), Hangzhou, China, October 12-14, 2011.
- 2011 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2011, IEEE), December 7 - 9, 2011, ChiangMai, Thailand.
- 2012 International Symposium on Communications and Information Technologies (ISCIT 2012, IEEE), Gold Coast, Australia, October 2 - 5, 2012.

- 2012 International Symposium on Communication, Control and Signal Processing, ISCCSP 2012, May 2012, Rome, Italy

9 Other Activities:

- **Oscar Au**, Board of Governor, APSIPA (Asia Pacific Signal and Information Processing Association) and Reviewer for many IEEE and other international transactions, journals and research grant proposals, member of HKUST Research Committee
- **Moncef Gabbouj** served as member of the IMDSP Panel, National Science Foundation, USA, May 2010 and member of the international advisory board, EU Glocal IP project, 2010.
- **Yoshikazu Miyanaga**, vice-President, The Institute of Electronics, Information and Communication Engineers (IEICE), Japan, Engineering Sciences Society (ESS), 2010 – 2012, and The Asia-Pacific Signal and Information Processing Association (APSIPA), 2010 – 2011.
- **W.C. Siu**, Member, Engineering Panel, Research Grant Council (RGC), Hong Kong SAR Government, 2010-2012.
- **W.C. Siu**, Non-executive Director, Teleeye Holding Limited, (a Listed Hi-Tech Company on Video Technology/Video Surveillance in Hong Kong)

10 Some News from the TC Members are listed below:

- **Yong Lian** developed the low power ECG-on-Chip which was reported in The Straits Times, Business Times, Bio Spectrum Asia Edition, Bernama Malaysia, Yahoo! News Malaysia, Gene Wired, NUS Knowledge Enterprise, Media Corp Live938, Agency for Science Technology and Research Press Releases, Singapore Government Press Centre.
- **Moncef Gabbouj** was elevated to the grade of IEEE Fellow as of 1. January 2011 and was appointed Academy of Finland Professor (1.1.2011-31.12.2015). He will be on sabbatical at Purdue University (August-December 2011) and at the University of Southern California (January-June 2012).
- **Lina Karam** received the Distinguished Alumnus Award from the American University of Beirut (AUB). She is participating as a Member of an Expert Panel at the Tampere University of Technology (TUT) Research Assessment Exercise 2011 in Finland and together with Patrick Wolfe, she will give an Expert Panel Summary for the Image, Video, and Multi-Dimensional Signal Processing (IVMSP) area at the 2011 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Prague, Czech Republic.
- **Andrea Spanias**, is heading the SenSIP Center and NSF Net Centric I/UCRC site at ASU as of Aug 2010.
- A plenary session was held honoring **M.N.S. Swamy** for his research contributions on his 75th birthday at the Midwest Symposium on Circuits and Systems, 2010.

- S.M. Mahbubur Rahman, a Ph. D. student, jointly supervised by M.O. Ahmad and **M.N.S. Swamy**, received the Best Thesis Award in Engineering and Sciences of Concordia University; the thesis was entitled “Probabilistic Modeling of Wavelet Coefficients for Processing of Image and Video Signals”.
- The following paper received the student paper First Prize: Piya Pal and **P. P. Vaidyanathan**, "Coprime Sampling and the MUSIC Spectrum," 14th IEEE DSP Workshop , Sedona, AZ, Jan. 2011.
- **A.N. Venetsanopoulos** was appointed to Fellowship of The Royal Society of Canada, November 2010.