

ANNUAL REPORT 2007-2008 DSP TC, IEEE CAS SOCIETY (Revision 2)

Chairman: Prof. Y. Miyanaga
Secretary: Prof. B. Nowrouzian
Past Chairman: Prof. H. K. Kwan
Secretary-Elect: Prof. Y. Lian

1 DSP TC Meeting:

The 2007 DSP TC Annual Meeting was held at Jasperwood Conference Room, 3rd Floor, Hilton New Orleans Riverside Hotel, from 12:50 PM to 14:30 PM on Wednesday May 30, 2007, during the 2007 IEEE International Symposium on Circuits and Systems, New Orleans, USA.

2 Conferences or Workshops where the DSP TC or Members of the TC was/were actively involved in 2007-2008 include the followings:

2.1 2007 IEEE International Symposium on Circuits and Systems (*ISCAS 2007*), May 2007, New Orleans, USA:

- **DSP Track:** Prof. Y. Miyanaga (Chair), Prof. B. Nowrouzian (Secretary), and Prof. H. K. Kwan (Past Chair).
- **Review Committee Members of DSP Track:** Profs. Tian-Bo Deng, Uday Desai, Karen Egiazarian, Dominic Ho, Xinping Huang, Gernot Hueber, Håkan Johansson, Masayuki Kawamata, H.K. Kwan, Yong Lian, Yong Ching Lim, Yoshikazu Miyanaga, Behrouz Nowrouzian, Soontorn Oraintara, See-May Phoong, Ravi Prakash Ramachandran, Tapio Saramäki, Wan Chi Siu, David Tay, and Wei Xing Zheng.
- **Co-Organizers and Co-Chairs of Invited Sessions:**
 - N/A
- **Technical Session Chairs:**
 - Adaptive Signal Processing: Tapio Saramäki, Lars Wanhammar
 - Audio & Speech Processing I: Bah-Hwee Gwee, Wei-Ping Zhu
 - Audio & Speech Processing II: M. Omair Ahmad
 - Digital Filterbanks & Multi-Dimensional DSP: Soontorn Oraintara, Eric Rogers
 - Discrete-Time Transforms & Statistical/Nonlinear Signal Processing: Dominic K. C. Ho, Ioannis Pitas
 - Digital Signal Processing for Communications: Sergios Theodoridis, Wei Xing Zheng

- DSP Implementation & Embedded Systems I: Behrouz Nowrouzian, Sergios Theodoridis
 - DSP Implementation & Embedded Systems II: Stefano Vitali
 - Emerging Topics in DSP I: U.B. Desai, Paulo S. Diniz
 - Emerging Topics in DSP II: Uday. Desai
 - FIR Digital Filters : Wu-Sheng Lu, Chien-Cheng Tseng
 - IIR Digital Filters : Takao Hinamoto, H. K. Kwan
 - Digital Filters : Yong Lian
 - Frequency Response Masking Filters: Paulo S. Diniz, Zhiping Lin
 - Hardware Oriented Digital Signal Processing: Yong Lian
 - FIR & Fractional Delay Filters: H. K. Kwan, Tapio Saramäki
 - OFDM/CDMA Systems: Xinping Huang, Foo Say Wei
 - Image & Video Processing I: C. W. Kok, Daniel P.-K. Lun
 - Image & Video Processing II: Masayuki Kawamata
 - Digital Signal Processing I: Yoshikazu Miyanaga
 - Cellular Systems: Tokunbo Ogunfunmi
 - SDR/CR Circuits and Systems: Tokunbo Ogunfunmi
 - Digital Signal Processing II: Jun Zhang
 - Digital Circuits & Signal Processing: Pedro Julian
 - Circuits for Medical Applications: Yong Lian
- 2.2 **2007 Pacific-Rim Conference on Multimedia (PCM 2007)**, December 11-14, 2007, Hong Kong, China:
- **General Co-Chair:** Prof. Oscar Au
- 2.3 **2008 IEEE International Conference on Audio, Language and Image Processing (ICALIP 2008)**, July 7-9, 2008, Shanghai, China:
- **International Technical Committee Co-Chair:** Prof. Oscar Au
- 2.4 **2008 International Conference on Multimedia and Expo (ICME 2008)**, June 23-26, Hannover, Germany:
- **Publication Chair:** Prof. Oscar Au
- 2.5 **2008 IEEE Asia Pacific Conference on Circuits and Systems (APCCAS 2008)**, November 30-December 3, 2008, Macao, China:
- **Chair of Multimedia Systems and Applications Track:** Prof. Oscar Au
- 2.6 **2007 IEEE Pacific-Rim Conference on Multimedia (PCM 2007)**, December 11-14, 2007, Hong Kong, China:
- **Co-Chair of Multimedia Security Rights and Management Track:** Prof. Oscar Au

- 2.7 **2008 IEEE International Conference on Multimedia and Expo (ICME 2008)**, June 23-26, Hannover, Germany:
- *CAS representative to Steering Committee:* Prof. Oscar Au
- 2.8 **2008 IEEE International Symposium on Circuits and System (ISCAS 2008)**, May 18-21, Seattle, USA:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.9 **2008 IEEE International Conference on Multimedia and Expo (ICME 2008)**, June 23-26, Hannover, Germany:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.10 **2008 IEEE International Conference on Image Processing (ICIP 2008)**, October 12-15, 2008, San Diego, USA:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.11 **2008 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2008)**, March 30-April 4, 2008, Las Vegas, USA:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.12 **2008 IEEE Consumer and Communications Networking Conference (CCNC 2008)**, 10-12 January, 2008, Las Vegas, USA:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.13 **2008 IEEE International Conference on Audio, Language and Image Processing (ICALIP 2008)**, July 7-9, 2008 in Shanghai, China:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.14 **2008 IEEE International Conference on Communications, Circuits and Systems (ICCCAS 2008)**, May 25-27, 2008, Xiamen, China:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.15 **2008 IEEE International Conference on Signal Processing and Multimedia Applications (SIGMAP 2008)**, July 26-29, 2008, Porto, Portugal:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.16 **2008 SPIE Conference on Security, Steganography and Watermarking of Multimedia Contents (part of EI 2008):**
- *Member of Technical Committee:* Prof. Oscar Au
- 2.17 **2008 IASTED International Conference on Signal and Image Processing (SIP 2008)**, August 18-20, 2008, Kailua-Kona, Hawaii, USA:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.18 **2008 IASTED International Conference on Signal Processing, Pattern Recognition, and Applications (SPPRA 2008)**, February 13-15, 2008, Innsbruck, Austria:
- *Member of Technical Committee:* Prof. Oscar Au

- 2.19 **2008 IET International Conference on Visual Information Engineering (VIE 2008)**, July 29-August 31, 2008, Xi'an International Conference Center, China:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.20 **2007 European Conference on Circuit Theory and Design (ECCTD 2007)**, August 26-30, 2007, Seville, Spain:
- *Member of Technical Committee for conferences:* Prof. Oscar Au
- 2.21 **2007 Hong Kong International Computer Conference (HKICC 2007):**
- *Member of Technical Committee:* Prof. Oscar Au
- 2.22 **2007 IEEE International Conference on Communications, Circuits and Systems (ICCCAS 2007):**
- *Member of Technical Committee:* Prof. Oscar Au
- 2.23 **2007 IEEE International Conference on Image Processing (ICIP 2007)**, September 16-19, 2007, San Antonio, USA:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.24 **2007 IEEE International Conference on Multimedia and Expo (ICME 2007)**, July 2-5, 2007, Beijing, China:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.25 **2007 International Workshop on Digital Watermarking (IWDW 2007)**, November 21-23, 2007, Guangzhou, China:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.26 **2007 1st ACM Workshop on Mobile Video (MV 2007):**
- *Member of Technical Committee:* Prof. Oscar Au
- 2.27 **2007 Picture Coding Symposium (PCS 2007):**
- *Member of Technical Committee:* Prof. Oscar Au
- 2.28 **2007 Pacific-Rim Symposium on Image and Video Technology (PSIVT 2007):**
- *Member of Technical Committee:* Prof. Oscar Au
- 2.29 **2007 IEEE International Conference on Signal Processing and Multimedia Applications (SIGMAP 2007)**, July 28-31, 2007, Barcelona, Spain:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.30 **2007 IEEE Workshop on Signal Processing Systems (SiPS 2007)**, October 17-19, 2007, Shanghai, China:
- *Member of Technical Committee:* Prof. Oscar Au
- 2.31 **2007 IEEE Region 10 Conference (TENCON 2007)**, October 30-November 2, 2007, Taipei:
- *Member of Technical Committee:* Prof. Oscar Au

- 2.32 **2009 DSP and SPE Workshop:** Marco Island, Florida, USA:
- *Publicity Chair* : Prof. Tamal Bose
- 2.33 **2007 IEEE SMC Workshop,** Germany:
- *Member of International Program Committee:* Prof. Tamal Bose
- 2.34 **IEEE International Conference on Communications (ICC 2007),** Glasgow, Scotland, UK:
- *Member of International Program Committee:* Prof. Tamal Bose
- 2.35 **IEEE Circuits and Systems Society, 2006-2008:**
- *Member of International Membership Advancement Committee:* Prof. Tamal Bose
- 2.36 **2008 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2008),** March 30-April 4, 2008, Las Vegas, USA:
- *Local Arrangement Chair:* Prof. Tamal Bose
- 2.37 **2007 IEEE International Symposium on Communications and Information Technologies (ISCIT 2007),** October 16-19, 2007, Sydney, Australia:
- *Technical Program Committee Member:* Prof. Tian-Bo Deng
- 2.38 **2007 IEEE International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2007),** November 28-December 1, 2007, Xiamen, China:
- *Technical Program Committee Member:* Prof. Tian-Bo Deng
- 2.39 **2007 International Conference on Communications, Circuits and Systems (ICCCAS 2007),** May 25-27, 2008, Xiamen, China:
- *Track Co-chair for “Multimedia Signal Processing and Communications”:* Prof. Tian-Bo Deng
- 2.40 **18th European Conference on Circuit Theory and Design (ECCTD),** August 26-30, 2007. Sevilla, Spain:
- *Member of Technical Committee:* Prof. Håkan Johansson
- 2.41 **9th IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC),** July 6-9, 2008, Recife, Brazil:
- *Technical Co-Chair:* Prof. P.S.R. Diniz
- 2.42 **50th IEEE International Midwest Symposium on Circuits and Systems (MWSCAS 2007),** August 5-8, 2007, Montreal, Canada:
- *Far East Liaison Co-Chair:* Prof. Takao Hinamoto
 - *Digital & Adaptive Signal Processing Co-Chair:* Prof. Takao Hinamoto
- 2.43 **15th European Signal Processing Conference (EUSIPCO 2007),** September 3-7, 2007, Poznan, Poland:

- *Technical Program Committee Member:* Prof. Takao Hinamoto
- 2.44 **5th International Symposium on Image and Signal Processing and Analysis (ISPA)**, August 29-31, 2007, Niagara Falls, Canada:
 - *Member of Program Committee:* Prof. Håkan Johansson
- 2.45 **EURASIP European Conference on Signal Processing (EUSIPCO)**, August 25-29, 2008, Lausanne, Switzerland:
 - *Member of Technical Program Committee:* Prof. Håkan Johansson
- 2.46 **IEEE International Conference on Electronics, Circuits, and Systems (ICECS)**, August 31-September 3, 2008, Malta:
 - *Track Co-Chair:* Prof. Håkan Johansson
- 2.47 **2007 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2007)**, April 15-20, 2007, Hawaii, USA:
 - *Technical Area Chair:* Prof. Lina Karam
 - *Review Committee Member:* Prof. Lina Karam
 - *Session Chair:* Prof. Lina Karam
- 2.48 **2007 IEEE International Conference on Image Processing (ICIP 2007)**, September 16-19, 2007, San Antonio, USA:
 - *Technical Area Chair:* Prof. Lina Karam
 - *Review Committee Member:* Prof. Lina Karam, Prof. David Tay
- 2.49 **3rd International Symposium on Video Processing and Quality Metrics for Consumer Electronics (VPQM 2007)**, January 25-27, 2007, Scottsdale, USA:
 - *Technical Committee Member:* Prof. Lina Karam
- 2.50 **2007 IEEE International Symposium on Circuits and Systems (ISCAS 2007)**, May 27-30, 2007, New Orleans, USA:
 - *Technical Committee Member:* Prof. Lina Karam
- 2.51 **2007 IEEE International Symposium on Signal Processing and Applications (ISSPA 2007)**, February 12-15, 2007, Sharjah, UAE:
 - *Technical Track Chair:* Prof. Lina Karam
- 2.52 **2008 IEEE International Symposium on Circuits and Systems (ISCAS 2008)**, May 18-21, Seattle, USA:
 - *Review Committee Member:* Prof. Lina Karam
- 2.53 **2008 SPIE Electronic Imaging Conference (part of EI 2008):**
 - *Technical Committee Member:* Prof. Lina Karam
- 2.54 **2008 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2008)**, March 30-April 4, 2008, Las Vegas, USA:
 - *Organizing Committee Member:* Prof. Lina Karam
 - *Steering Committee Member:* Prof. Lina Karam

- ***Social Program Chair:*** Prof. Lina Karam
 - ***Technical Area Chair:*** Prof. Lina Karam
 - ***Review Committee Member:*** Prof. Lina Karam
- 2.55** **2008 IEEE International Conference on Image Processing (ICIP 2008),**
October 12-15, 2008, San Diego, USA:
- ***Technical Area Chair:*** Prof. Lina Karam
 - ***Review Committee Member:*** Prof. Lina Karam, Prof. David Tay
- 2.56** **The 4th International Symposium on Neural Networks (ISNN 2007),**
June 3-7, 2007, Nanjing, China:
- ***Publicity Co-Chair:*** Prof. Wei Xing Zheng
 - ***International Program Committee Member:*** Prof. H. K. Kwan
- 2.57** **2007 IASTED International Conference on Circuits, Signals and**
Systems (ICCSS 2007), July 2-4, 2007, Banff, Canada:
- ***International Program Committee Member:*** Prof. H. K. Kwan
- 2.58** **The 11th European Conference on Speech Communication and**
Technology (Interspeech 2007), August 27-31, 2007, Antwerp, Belgium:
- ***Scientific Review Committee Member of Speech Enhancement Track:*** Prof. H. K. Kwan
- 2.59** **2007 IEEE International Conference on Acoustics, Speech, and Signal**
Processing (ICASSP 2007), April 15-20, 2007, Honolulu, Hawaii, USA:
- ***Technical Program Committee Member:*** Prof. H. K. Kwan
- 2.60** **2007 IEEE International Symposium on Circuits and Systems (ISCAS**
2007), May 27-30, 2007, New Orleans, USA:
- ***Session Chair (two Sessions):*** Prof. Tokunbo Ogunfunmi
- 2.61** **2008 IEEE International Symposium on Circuits and Systems (ISCAS**
2008), May 18-21, Seattle, USA:
- ***Review Committee Member (CASCOS Track):*** Prof. Tokunbo Ogunfunmi
- 2.62** **International Conference on Computer and Communication**
Engineering (ICCCE 2008), May 13 - 15 May, 2008, Kuala Lumpur,
Malaysia:
- ***International Advisory Committee Member:*** Prof. Yong Lian
- 2.63** **2007 IEEE International Conference on Biomedical Circuits and**
Systems, 27 - 30 November 2007, Montreal, Canada.
- ***Special Session Chair (EHS-II), “A Wireless Body Area Network Platform for Healthcare Applications I & II”:*** Prof. Yong Lian
- 2.64** **2007 International Conference on Biomedical Circuits and Systems,**
November 27 – 30, 2007, Montreal, Canada:

- *Session Chair, “Biomedical and Health System”*: Prof. Yong Lian
- 2.65 **2007 IEEE International Symposium on Circuits and Systems (ISCAS 2007)**, May 27 – 30, 2007, New Orleans, USA”
- *Session Chair, “Digital Filters”*: Prof. Yong Lian
 - *Session Chair, “Hardware Oriented Digital Signal Processing”*: Prof. Yong Lian
 - *Session Chair, “Hardware Oriented Digital Signal Processing”*: Prof. Yong Lian
 - *Session Chair, “Circuits for Biomedical Applications”*: Prof. Yong Lian
- 2.66 **2007 IEEE International Symposium on Circuits and Systems (ISCAS 2007)**, May 27-30, 2007, New Orleans, USA:
- *Review Committee Member*: Prof. Tokunbo Ogunfunmi
 - *Session Chair (Two Sessions)*: Prof. Tokunbo Ogunfunmi
- 2.67 **2008 IEEE International Symposium on Circuits and Systems (ISCAS 2008)**, May 18-21, Seattle, USA:
- *Session Chair, “Digital Signal Processing Implementation” and “Millimeter Wave and Optical Communications” Lecture Sessions*: Prof. Tokunbo Ogunfunmi
 - *Session Chair, “Communications Architectures” Poster Session*: Prof. Tokunbo Ogunfunmi
 - *Review Committee Member, “CASCOM Track”*: Prof. Tokunbo Ogunfunmi
 - *Review Committee Member, “DSP Track”*: Prof. Tokunbo Ogunfunmi
- 2.68 **2007 IEEE International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP 2007)**, November 2007, Kaohsiung, Taiwan:
- *Invited Speaker, “Anthropocentric Video Analysis”*: Prof. Ioannis Pitas
- 2.69 **7th International Conference on Sampling Theory and Applications (SAMPTA2007)**, June 1 -5, 2007 Thessaloniki, Greece:
- *Invited Speaker, “Nonuniform Curve Sampling and Coding”*: Prof. Ioannis Pitas
- 2.70 **2007 European Alliance of News Agencies (EANA) Conference**, May 17, 2007, Athens, Greece:
- *Invited Speaker, “Watermarking and fingerprinting of pictures”*: Prof. Ioannis Pitas

- 2.71 **12th International Workshop on Combinatorial Image Analysis (IWCIA 2008)**, April 7-9 2008, Buffalo, NY, USA:
- **International Program Committee:** Prof. Ioannis Pitas
- 2.72 **16th European Signal Processing Conference (EUSPICO 2008)**, August 25-29, 2008, Lausanne, Switzerland:
- **Technical Program Committee Member:** Ravi Prakash Ramachandran
- 2.73 **5th International Symposium on Image and Signal Processing and Analysis (ISPA 2007)**, September 27-29, 2007, Istanbul, Turkey:
- **Program Committee Co-Chair:** Prof. Tapio Saramäki
- 2.74 **9th International Conference and Exhibition: Digital Signal Processing and Its Applications (DSPA 2007)**, March 28-30, 2007, Moscow, Russia:
- **International Technical Committee Co-Chair:** Prof. Tapio Saramäki
- 2.75 **10th International Conference and Exhibition: Digital Signal Processing and Its Applications (DSPA 2008)**, March 26-28, 2008, Moscow, Russia:
- **International Technical Committee Co-Chair:** Prof. Tapio Saramäki
- 2.76 **2007 IEEE International Symposium on Circuits and Systems (ISCAS 2007)**, May 27-30, 2007, New Orleans, Louisiana, USA:
- **Technical Session Chair, "Digital Signal Processing for Communications":** Prof. Wei Xing Zheng
 - **Technical Session Chair, "Neural Systems and Applications":** Prof. Wei Xing Zheng
 - **Review Committee Member:** Prof. Wei Xing Zheng
- 2.77 **2007 IEEE International Symposium on Signal Processing and Applications (ISSPA 2007)**, February 12-15, 2007, Sharjah, UAE:
- **Technical Program Committee Member:** Prof. Wei Xing Zheng
- 2.78 **2007 IEEE International Conference on Networking, Sensing and Control (ICNSC 2007)**, April 15-17, 2007, London, UK:
- **International Program Committee:** Prof. Wei Xing Zheng
- 2.79 **4th International Symposium on Neural Networks (ISNN 2007)**, June 3-7, 2007, Nanjing, China:
- **Publicity Co-Chair:** Prof. Wei Xing Zheng
- 2.80 **2007 IEEE International Conference on Signal Processing and Communication (ICSPC 2007)**, November 24-27, 2007, UAE:
- **Technical Program Committee Member:** Prof. Wei Xing Zheng
- 2.81 **46th IEEE Conference on Decision and Control (CDC 2007)**, December 12-14, 2007, New Orleans, Louisiana, USA:
- **Program Committee Member :** Prof. Wei Xing Zheng

- 2.82 **2007 International Symposium on Neural Networks (ISNN 2007)**, June 3-7, 2007, Nanjing, China:
- **Publicity Co-Chair:** Prof. Wei Xing Zheng
- 3 **On going Conferences or Workshops where the DSP TC or Members of the TC is/are actively involved include the followings:**
- 3.1 **2008 IEEE International Symposium on Circuits and Systems (ISCAS 2008)**, May 18-21,2008, Seattle, Washington, USA:
- DSP Track Chair: Prof. Yoshikazu Miyanaga
 - Secretary: Prof. Behrouz Nowrouzian,
 - Secretary Elect.: Prof.Yong Lian
 - **Review Committee Members of DSP Track:** Drs. Tian-Bo Deng, Uday Desai, Karen Egiazarian, Xinping Huang, Gernot Hueber, Håkan Johansson, Masayuki Kawamata, H. K. Kwan, Yong Lian, Yong Ching Lim, Zhiping Lin, Yoshikazu Miyanaga, Behrouz Nowrouzian, Tokunbo Ogunfunmi, Soontorn Oraintara, See-May Phoong, Ravi Prakash Ramachandran, Tapio Saramäki, Wan Chi Siu, Dominic Ho, David Tay, Wei Xing Zheng.
 - **Best Student Paper Award selection committee:** Prof. Yong Lian
- 3.2 **2008 IEEE International Symposium on Communications and Information Technologies (ISCIT 2008)**, October 21-23, 2008, Vientiane, Lao PDR:
- **Technical Program Committee Member:** Prof. Tian-Bo Deng
- 3.3 **2011 IEEE International Symposium on Circuits and Systems (ISCAS 2011)**, Rio de Janeiro, Brazil:
- **General Co-Chair:** Prof. P. S. R. Diniz
- 3.4 **2009 IEEE International Symposium on Circuits and Systems (ISCAS 2009)**, May 24-27, 2009, Taipei:
- **General Program Co-Chair:** Prof. Yih-Fang Huang
 - **General Program Co-Chair:** Prof. Yong Ching Lim
- 3.5 **2009 IEEE International Conference on Image Processing (ICIP 2009)**, Fall 2009, Cairo, Egypt:
- **Technical Program Chair :** Prof. Lina Karam
- 3.6 **2012 IEEE International Conference on Image Processing (ICIP 2012):**
- **Organizing committee Member:** Prof. Lina Karam
 - **Technical Session Chairs, “Digital Filters and Applications”:** Profs. Tian-Bo Deng, H. K. Kwan
- 3.7 **2008 International Conference on Embedded Systems and Intelligent Technology (ICESIT2008)**, February 27 – 29, 2008, Bangkok, Thailand:
- **International Advisory Board Member:** Prof. Yoshikazu Miyanaga

- 3.8 **IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2008)**, March 30-April 4, 2008, Las Vegas, Nevada, USA:
- **Technical Program Committee Member:** Prof. H. K. Kwan
- 3.9 **International Conference on Communications, Circuits and Systems (ICCCAS 2008)**, May 25-27, 2008, Xiamen, China:
- **Technical Program Committee Member:** Prof. H. K. Kwan
- 3.10 **World Congress on Computational Intelligence (WCCI 2008)**, June 1-6, 2008, Hong Kong, China:
- **International Program Committee Member:** Prof. H. K. Kwan
- 3.11 **2008 North American Simulation Technology Conference (NASTEC 2008)**, August 13-15, 2008, McGill University, Montreal, Canada:
- **Technical Program Committee Member:** Prof. H. K. Kwan
- 3.12 **2008 IEEE Conference on Soft Computing in Industrial Applications (SMCia 2008)**, June 25-27, 2008, Muroran, Japan:
- **International Advisory Board Member:** Prof. Yoshikazu Miyanaga
- 3.13 **The 4th International Symposium on Neural Networks (ISNN 2008)**, September 24-28, 2008, Beijing, China:
- **Program Committee Member:** Prof. H. K. Kwan
- 3.14 **Automatic Face and Gesture Recognition Conference (FG 2008)**, September 17-19, 2008, Amsterdam, The Netherlands:
- **Program Committee:** Prof. Ioannis Pitas
- 3.15 **2009 IEEE International Conference on Image Processing (IEEE ICIP 2009)**, Fall 2009, Cairo, Egypt:
- **Technical Program Chair:** Prof. Lina Karam
- 3.16 **2008 IEEE International Symposium on Circuits and Systems (ISCAS 2008)**, May 18 - 21 2008, Seattle, USA:
- **Session Chair, "Wireless Biomedical Systems I & II":** Prof. Yong Lian
 - **Session Chair, "Digital Filter Design Techniques":** Prof. Yong Lian
- 3.17 **IEEE 2008 International Conference on Biomedical Circuits and Systems (BioCAS 2008)**, November 18-21, 2008, Baltimore, USA:
- **Technical Program Co-Chair:** Prof. Yong Lian
- 3.18 **9th International Conference on Solid-State and Integrated-Circuit Technology (ICSICT 2008)**, October 20-23, 2008, Beijing, China:
- **Technical Program Committee Member:** Prof. Yong Lian
- 3.19 **16th European Signal Processing Conference (EUSICPO 2008)**, August 25-29, Lausanne, Switzerland:

- **Technical Program Committee Member:** Prof. Yong Lian
- 3.20 **2008 IASTED Signal and Image Processing (SIP 2008)**, August 18 – 20, 2008, Hawaii, USA:
- **International Program Committee Member:** Prof. Yong Lian
- 3.21 **2008 IEEE International Conference on Neural Networks and Signal Processing (ICNNSP 2008)**, June 3 – 7, 2008, Nanjing, China:
- **International Advisory Committee Co-Chair:** Prof. Yong Lian
- 3.22 **2008 IEEE International Symposium on Circuits and Systems (ISCAS 2008)**, May 18 – 21, 2008, Seattle, USA:
- **International Coordinator:** Prof. Yong Lian
 - **Biomedical Circuits and Systems Track Chair:** Prof. Yong Lian
 - **DSP Track Co-Chair:** Prof. Yong Lian
- 3.23 **2009 IEEE International Symposium on Circuits and Systems (ISCAS 2009)**, May 24-27, 2009, Taiwan:
- **International Coordinator:** Prof. Yong Lian
- 3.24 **2008 International Workshop on Multimedia and Communication Technology (IWMAC 2008)**, November 13 - 14, 2008, Bangkok Thailand:
- **General co-Chair:** Prof. Yoshikazu Miyanaga
- 3.25 **2008 International Workshop on Smart Info-Media Systems in Bangkok, (IEICE SISB 2008)**, December 18, 2008, Bangkok, Thailand:
- **International Advisor Committee Chair:** Prof. Yoshikazu Miyanaga
- 3.26 **1010 IEEE International Conference on Image Processing (ICIP 2010)**, September 2010, Hong Kong:
- **General Chair:** Prof. Wan-Chi Siu
- 3.27 **2008 IEEE International Symposium on Circuits and Systems (ISCAS 2008)**, Seattle, Washington, USA, May 2008
- **Committee Member (Digital Signal Processing Track):** Prof. Wei Xing Zheng
 - **Technical Session Chair, “Digital Signal Processing for Communications”:** Prof. Wei Xing Zheng
 - **Organizer and Chair, Special Session, “Blind Signal Processing for MIMO Systems”:** Prof. Wei Xing Zheng
- 3.28 **5th International Workshop on Signal Processing and its Applications (WoSPA 2008)**, March 18-20, Sharjah, UAE:
- **International Program Committee Member:** Prof. Wei Xing Zheng
- 3.29 **2008 IEEE International Conference on Networking, Sensing and Control (ICNSC 2008)**, April 6-8, Sanya, China:
- **International Program Committee Member:** Prof. Wei Xing Zheng

- 3.30 **2008 IEEE World Congress on Computational Intelligence (WCCI 2008)**, June 2-6, 2008, Hong Kong:
 - **Technical Committee Member:** Prof. Wei Xing Zheng
- 3.31 **7th World Congress on Intelligent Control and Automation (WCICA 2008)**, June 25-27, 2008, Chongqing, China:
 - **International Program Committee Member:** Prof. Wei Xing Zheng
- 3.32 **2008 Chinese Control and Decision Conference (CCDC 2008)**, July 2-4, 2008, Yantai China:
 - **Technical Committee Member:** Prof. Wei Xing Zheng
- 3.33 **2008 IEEE International Conference on Automation and Logistics (ICAL 2008)**, September 1-3, 2008, China:
 - **International Program Committee Member:** Prof. Wei Xing Zheng
- 3.34 **23rd IEEE International Symposium on Intelligent Control (ISIC 2008)**, September 3-5, 2008, San Antonio, USA:
 - **International Program Committee Member:** Prof. Wei Xing Zheng

4 Books and Book Chapters:

- 4.1 P.S.R. Diniz, *ADAPTIVE FILTERING: Algorithms and Practical Implementation*, Springer, New York, NY, Third edition, 2008.
- 4.2 Tokunbo Ogunfunmi, *Adaptive Nonlinear System Identification: The Volterra and Wiener model approaches*, Springer, New York, NY, 2007.

5 Short Courses:

- 5.1 Prof. Lina Karam has given short courses on Image and Video Compression to industry in 2007 and 2008.
- 5.2 Prof. Tapio Saramäki has served since 1995 the main lecturer and organizer of four intensive DSP courses to the industrial people through EDUTECH, the organization of Tampere University of Technology taking care of educating people outside the university.

6 Plenary Sessions, Keynote Speakers, Invited Lectures:

- 6.1 Prof. Oscar Au gave an invited talk at 2007 Hong Kong SMPTE DTT Transmission Training Workshop.
- 6.2 Prof. Oscar Au gave an invited talk at 2007 Hong Kong SMPTE Annual Symposium on Digital Cinema.
- 6.3 Prof. Y. Lian, "The Design of High-Speed Low-Power Digital FIR Filters Based on Frequency-Response Masking Technique", Invited Talk at IEEE Circuits and Systems Society Workshop, March 2007, Vancouver, Canada.
- 6.4 Prof. Y Lian, "Wireless Biomedical Sensors for Body Area Network", Invited Talk at Tsinghua University, December 2007, Beijing, China.
- 6.5 Prof. Zhiping Lin serves as a Distinguished Lecturer of the IEEE CAS Society for 2007-2008.

- 6.6 Prof. Zhiping Lin gave a Distinguished Lecturer talk in June 2007, Ottawa and Montreal, Canada, in October 2007, Singapore, and in December 2007, Kaohsiung and Tainan, Taiwan.
- 6.7 Prof. Yoshikazu Miyanaga served as an Invited Lecturer of the 2007 International Conference on Telecommunications, Industry and Regulatory Development (ICTIR2007), August 20 - 21, 2007, Bangkok, Thailand.
- 6.8 Prof. Tokunbo Ogunfunmi gave an invited talk at Obafemi Awolowo University, Nigeria in April 2008, titled “Signal Processing challenges in Wireless LANs: A case study of the IEEE 802.11n Amendment”.
- 6.9 Prof. Tapio Saramäki gave two invited talks entitled “Efficient DSP Algorithms and their Optimization for Signal Processor and VLSI Implementations” and “Efficient Techniques for Image Re-Sampling” at Norwegian Institute of Science and Technology, Norway, June 28, 2007; the above-mentioned first talk was also given in November 2007 at University Graduate Center that is a part of the University of Oslo.
- 6.10 Prof. Tapio Saramäki gave a plenary talk entitled “Design and Implementation of Computationally Efficient Linear-Phase Finite-Impulse Response Digital Filters – A Tutorial Review” at the 10th International Conference and Exhibition: Digital Signal Processing and Its Applications (DSPA 2008), March 26-28, 2008, Moscow, Russia
- 6.11 Prof. David Tay gave an invited paper at 2007 International Conference on Information, Communications and Signal Processing (ICICS 2007) in December 2007 in Singapore , entitled, “Designing Hilbert-Pair of Wavelets: Recent Progress and Future Trends”.
- 6.12 Prof. Sergios Theodoridis gave an invited plenary talk at the International Symposium on Image and Signal Processing and Analysis (ISPA 2007) in September 2007 in Istanbul, Turkey.

7 Editorial Services:

- 7.1 Prof. Oscar Au serves as an Associate Editor for IEEE Transactions On Circuits and Systems for Video Technology.
- 7.2 Prof. Oscar Au serves as an Editorial Board Member for Journal of Multimedia.
- 7.3 Prof. Oscar Au serves as an Editorial Board Member for Journal of the Franklin Institute.
- 7.4 Dr. Sankar Basu served as an Editor-in-Chief of IEEE Transactions on Circuits and Systems Part I.
- 7.5 Prof. Tamal Bose has served as an Associate Editor of Research Letters in Signal Processing, 2007-Present.
- 7.6 Prof. Tamal Bose has served as a Reviewer for IEEE Accreditation Board for Engineering and Technology, 2005-Present.
- 7.7 Prof. Tamal Bose has served as an Advisory Board Member for IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Japan, 2002-Present.

- 7.8 Prof. J. B. Evans served as an Associate Editor for IEEE Communications Letters.
- 7.9 Prof. Takao Hinamoto serves as an Associate Editor for IEEE Transactions on Circuits and Systems Part I.
- 7.10 Prof. K.C. Ho served as an Associate Editor for IEEE Transactions on Signal Processing.
- 7.11 Prof. K.C. Ho served as an Associate Editor for IEEE Signal Processing Letters.
- 7.12 Prof. Håkan Johansson served as an Associate Editor for IEEE Transactions on Circuits and Systems Part II.
- 7.13 Prof. Håkan Johansson served as an Associate Editor for IEEE Signal Processing Letters.
- 7.14 Prof. Håkan Johansson serves as an Associate Editor for IEEE Transactions Signal Processing.
- 7.15 Prof. Håkan Johansson served as an Associate Editor for IEEE Transactions on Circuits and Systems Part I.
- 7.16 Prof. Håkan Johansson served as an Associate Editor for IEEE Transactions on Signal Processing Letters.
- 7.17 Prof. Håkan Johansson served as a Guest Editor for the Special Issue on Signal Processing for Data Converters in EURASIP Journal on Advances in Signal Processing.
- 7.18 Prof. Lina Karam served as an Associate Editor for IEEE Signal Processing Letters.
- 7.19 Prof. Lina Karam is served as the Lead Guest Editor of IEEE Journal of Selected Topics in Signal Processing.
- 7.20 Prof. Lina Karam served on the Editorial Board of the IEEE Special Issue on Visual Media Quality Assessment.
- 7.21 Prof. Lina Karam served as a Member of the Editorial board of the Foundation Trends in Signal Processing Journal.
- 7.22 Prof. Lina Karam served as an Associate Editor for IEEE Transactions on Image Processing.
- 7.23 Prof. H.K. Kwan serves as an Overseas Member for Editorial Committee of Chinese Journal of Scientific Instrument.
- 7.24 Prof Yong Lian served as an Associate Editor for IEEE Transactions on Circuits and Systems Part I.
- 7.25 Prof Yong Lian served as an Associate Editor for IEEE Transactions on Biomedical Circuits and Systems.
- 7.26 Prof Yong Lian served as an Associate Editor for IEEE Transactions on Circuits and Systems Part II.
- 7.27 Prof Yong Lian served as a Guest Editor for the Special Issue on Selected Papers from ISCAS 2007 of IEEE Transactions on Biomedical Circuits and Systems.

- 7.28** Prof Yong Lian served as a Guest Editor for the Special Issue on Low Power Digital Filter Design Techniques and Their Applications of Circuits Systems and Signal Processing.
- 7.29** Prof. Yong Lian serves on the Editorial Board of IEEE CASS WEB Site.
- 7.30** Prof. Zhiping Lin serves as a Co-Editor for the Journal of Multidimensional Systems and Signal Processing.
- 7.31** Prof. Zhiping Lin served as an Associate Editor for the Journal of Circuits, Systems and Signal Processing.
- 7.32** Prof. Yuan-Pei Lin served as an Associate Editor for Multidimensional, Systems and Signal Processing, Academic Press.
- 7.33** Prof. Yuan-Pei Lin served as an Associate Editor for IEEE Transaction on Circuits and Systems Part II.
- 7.34** Prof. Yuan-Pei Lin served as an Associate Editor for IEEE Signal Processing Letters.
- 7.35** Prof. Yuan-Pei Lin served as an Associate Editor for EURASIP Journal on Applied Signal Processing.
- 7.36** Prof. Wu-Sheng Lu served as an Associate Editor for IEEE Transactions on Circuits and Systems Part I.
- 7.37** Prof. Y. Miyanaga served as an Associate Editor for Journal of Signal Processing, Japan.
- 7.38** Prof. Truong Nguyen served as an Associate Editor for IEEE Transactions on Image Processing.
- 7.39** Prof. Truong Nguyen served as an Associate Editor for IEEE Signal Processing Letters.
- 7.40** Prof. Truong Nguyen served as an Associate Editor for IEEE Transactions on Circuits and Systems Part II.
- 7.41** Prof. Ioannis Pitas served as an Editorial Board Member for Journal of Signal, Image and Video Processing.
- 7.42** Prof. See-May Phoong served as an Associate Editor for IEEE Transactions on Circuits and Systems Part II.
- 7.43** Prof. See-May Phoong served as an Associate Editor for IEEE Signal Processing Letters.
- 7.44** Professor Ravi Prakash Ramachandran served as an Associate Editor the Journal of Pattern Recognition.
- 7.45** Dr. Ravi P. Ramachandran served as a Member of Editorial Board of IEEE Circuits and Systems Magazine.
- 7.46** Prof. Tapio Saramäki served as an Associate Editor for Journal of Circuits, Systems and Signal Processing.
- 7.47** Prof. T. Stouraitis served as a Regional Editor-Europe for Journal of Circuits, Systems, and Computers.
- 7.48** Prof. T. Stouraitis served as an Associate Editor for IEEE Transactions on VLSI.

- 7.49 Prof. T. Stouraitis served as an Associate Editor for IEEE Transactions on Circuits and Systems Part II.
- 7.50 Prof. David Tay served as an Associate Editor for International Journal of Multidimensional Systems and Signal Processing, Kluwer Academic Press.
- 7.51 Prof. Sergios Theodoridis serves as Associate Editor for IEEE Transactions on Neural Networks.
- 7.52 Prof. Sergios Theodoridis serves as an Associate Editor for IEEE Transactions on CAS Part II.
- 7.53 Prof. Li Xu served as an Associate Editor for Multidimensional Systems and Signal Processing, Academic Press.
- 7.54 Prof. Wei Xing Zheng served as an Associate Editor for IEEE Transactions on Circuits and Systems Part I.
- 7.55 Prof. Wei Xing Zheng served as an Associate Editor for IEEE Transactions on Automatic Control.
- 7.56 Prof. Wei Xing Zheng served as an Associate Editor for IEEE Signal Processing Letters.
- 7.57 Prof. Wei Xing Zheng serves as an Associate Editor for IEEE Transactions on Automatic Control.
- 7.58 Prof. Wei Xing Zheng serves as an Associate Editor for IEEE Transactions on Circuits and Systems Part II.
- 7.59 Prof. Takao Hinamoto serves as an Associate Editor for IEEE Transactions on Circuits and Systems Part I.

8 IEEE Services:

- 8.1 Prof. Oscar Au served as the Chairman for Multimedia Systems and Applications TC (MSATC) of IEEE CAS Society.
- 8.2 Prof. Oscar Au served as a Member of Video Signal Processing and Communications TC (VSPC TC) of IEEE CAS Society.
- 8.3 Prof. Oscar Au served as a Member of Digital Signal Processing TC (DSP TC) of IEEE CAS Society.
- 8.4 Prof. P. S. R. Diniz served as a Member of IEEE CAS Education Award Committee.
- 8.5 Prof. Lina Karam served as a Member of IEEE Signal Processing Society's Image and Multidimensional Signal Processing (IMDSP) Technical Committee.
- 8.6 Prof. Lina Karam serves as a Member of IEEE Signal Processing Society's Technical Directions Board.
- 8.7 Prof. Zhiping Lin served serves as the Chair of CAS Singapore Chapter for 2007-2008.
- 8.8 Prof. H. K. Kwan served as an International Steering Committee Member of International Symposium on Intelligent Signal Processing and Communication Systems, November 28-December 1, 2007, Xiamen, China.

- 8.9 Prof. Wei Xing Zheng served as the *Chair-Elect* of *Technical Committee on Neural Systems and Applications* of *IEEE Circuits and Systems Society*.
 - 8.10 Prof. Wei Xing Zheng served as the *Secretary* of *Technical Committee on Blind Signal Processing* of *IEEE Circuits and Systems Society*.
 - 8.11 Prof. Wei Xing Zheng served on the *International Steering Committee* of *IEEE Asia Pacific Conference on Circuits and Systems (APCCAS)*.
 - 8.12 Prof. Yong Lian served as the Vice President for Asia and Pacific Region of the IEEE CAS Society
 - 8.13 Prof. Yong Lian served as the Chair of the International Steering Committee of IEEE Asia Pacific Conference on Circuits and Systems (APCCAS).
 - 8.14 Prof. Yong Lian served as a member of Chapter-of-the-Year Award committee.
 - 8.15 Prof. Yong Lian served as the IEEE CAS Society's Representative to the BioTechnology Council
 - 8.16 Prof. Yong Lian served as the IEEE CAS Society's Representative to the IEEE Biometrics Council.
 - 8.17 Prof. Sergios Theodoridis was promoted to a Fellow of IEEE.
 - 8.18 Prof. Sergios Theodoridis was elected to the IEEE CAS Society BOG.
 - 8.19 Prof. Sergios Theodoridis was appointed as the Chair of IEEE Long Term
 - 8.20 Strategy Committee.
 - 8.21 Prof. Tokunbo Ogunfunmi serves as Chair of IEEE SPS Santa Clara Valley Chapter, 2007-2009.
 - 8.22 Prof. Tokunbo Ogunfunmi serves as a Member of Digital Signal Processing of IEEE CAS Society's DSP TC.
 - 8.23 Prof. Tokunbo Ogunfunmi serves as a Member of Circuits and Systems for Communications of IEEE CAS Society' CASCOM TC.
- 9 **DSP TC Technically Co-Sponsored Conferences/Symposia/Workshops:**
- 9.1 **2007 IEEE International Symposium on Circuits and Systems (ISCAS 2007)**, May 2007, New Orleans, USA.
 - 9.2 **2007 International Symposium on Communications and Information Technologies 2007 (ISCIT 2007)**, October 17-19, 2007, Sydney, Australia.
 - 9.3 **2007 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2007)**, November 28-December 1, 2007, Huaqiao University, Xiamen, China.
 - 9.4 **Fifth International Workshop on Content-Based Multimedia Indexing (CBMI-2007)**, June 25-27, 2007, Bordeaux, France.
 - 9.5 **2007 IEEE-EURASIP International Workshop on Nonlinear Signal and Image Processing (NSIP2007)**, September 10-12, 2007, Bucharest, Romania.

- 9.6 **International Symposium on Communications and Information Technologies 2008 (ISCIT 2008)**, October 21- 23, 2008, Don Chan Palace, Vientiane, Lao PDR.
- 9.7 **2008 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2008)**, December 8-11, 2008, Bangkok, Thailand.
- 9.8 **2008 International Symposium on Wireless Pervasive Computing (ISWPC 2008)**, May 7–9, 2008, Santorini, Greece.

10 Other Activities:

- 10.1 Prof. Oscar Au serves on the Review Committee of Technology Transfer Centre (TTC), HKUST.
- 10.2 Prof. Oscar Au serves on the Review Committee of ASTRI's Information and Communication Technology (ICT) R&D Center.
- 10.3 Prof. Oscar Au serves on the Review Committee of Hong Kong Innovation Technology Commission (ITC).

11 Some News from the TC Members are listed below:

- 11.1 Prof. Oscar Au was a co-recipient of a Best Paper Award from 2007 IEEE Pacific-Rim Conference on Multimedia (PCM 2007).
- 11.2 Prof. Oscar Au was a co-recipient of a Best Paper Award from 2007 IEEE Workshop on Signal Processing Systems (SiPS2007)
- 11.3 Together with Z. Li, X.L. Zhu, and Q.B. Sun , Prof. Yong Lian was a co-recipient of the Best Student Paper Award, the 2007 International Conference on Multimedia & Expo, July 2-5, 2007, Beijing, China, entitled "Constructing secure content-dependent watermarking scheme using homomorphic encryption".
- 11.4 Together with Z. Li, Q.B. Sun and C.W. Chen, Prof. Lian Yong was a co-recipient of the Best Paper Award, IEEE Transactions on Multimedia, for the paper entitled "Joint source-channel-authentication resource allocation and unequal authenticity protection for multimedia over wireless networks" Vol.9, No.4, June 2007, pp.837-850.
- 11.5 Together with Q. Zou and R.J. Ober, Prof. Zhiping Lin was a co-recipient of the 2008 IEEE Signal Processing Society's Young Author Best Paper Award for the paper entitled "The Cramer Rao lower bound for bilinear systems," IEEE Transactions on Signal Processing, USA, vol. 54, pp. 1666-1680, May, 2008.
- 11.6 Prof. Sergios Theodoridis was the co-recipient of the Best Paper Award in "Multimedia Metadata Applications (M3A) Workshop, Innovations Conference for Knowledge Management", New Media Technologies and Semantic, 2007.
- 11.7 Prof. Sergios Theodoridis was the co-recipient of the Best Paper Award in "IEEE Workshop on Multimedia and Signal Processing", 2007.

12 Acknowledgements:

Thanks are due to Prof. Yong Lian for maintaining a professional DSP TC web page.

Submitted by Prof. Behrouz Nowrouzian, DSP TC Chair Elect

Date: May 16, 2008.