

## ANNUAL REPORT 2007 DSP TC, IEEE CAS SOCIETY

Chairman: Prof. Y. Miyanaga  
Secretary: Prof. Behrouz Nowrouzian  
Past Chairman: Prof. H. K. Kwan

- 1 TC Meeting: The last TC Annual Meeting was held on May 24, Wednesday, 2006, 12:45 to 14:15 at Room 2.1, KOS International Conference Center, Greece, during the IEEE International Symposium on Circuits and Systems, Greece, May 21-24, 2006.
- 2 Conferences or Workshops where the DSP TC or Members of the TC was/were actively involved in 2006-2007 include the followings:
  - 2.1 2006 IEEE International Symposium on Circuits and Systems (ISCAS 2006), KOS International Conference Center, Greece, May 21-24, 2006.
    - General Chair: Prof. T. Stouraitis
    - DSP Track Chair: Prof. H. K. Kwan, Co-Chair: Prof. Yoshikazu Miyanaga, Prof. Behrouz Nowrouzian.
    - Review Committee Members of DSP Track:  
Drs. Lian Yong, U. B. Desai, Mohammed Y. Niamat, Ravi Prakash Ramachandran, P. P. Vaidyanathan, S. C. Chan, Behrouz Nowrouzian, Dominic Ho, Yuan-Pei Lin, Lina Karam, Lim Yong Ching, See-May Phoong, Wei Xing Zheng, Zhiping Lin, Truong Nguyent, Xinping Huang, Mohsin Jamali, Soontorn Oraintara, Gwee Bah Hwee, Håkan Johansson, Andreas Spanias, Yoshikazu Miyanaga and I. Pitas.
    - Co-Organizers and Co-Chairs of Invited Sessions:
      - “Digital Signal Processing Techniques for Biomedical Circuits and Systems”, (Sponsored by DSP TC), Prof. Yong Lian.
    - Technical Session Chairs (without her/his title):
      - Adaptive Signal Processing I: Wei Xing Zheng
      - FIR Digital Filter Implementation: Tapio Saramäki
      - Discrete-Time Transforms & Wavelets: M. Omair Ahmad, David Tay
      - Digital Signal Processing for Communications I: Li Xu
      - Digital Signal Processing for Communications II: Xinping Huang
      - Speech Enhancement: H. K. Kwan
      - Digital Filterbank I: Soontorn Oraintara
      - FIR Digital Filter Design: Y. C. Lim
      - Digital Signal Processing I: S. C. Chan
      - Adaptive Signal Processing II: Yoshio Itoh
      - Digital Signal Processing for Communications III: Chi-Wah Kok
      - IIR Digital Filter Design: H. K. Kwan
      - M-D Digital Signal Processing: Wu-Sheng Lu
      - Multirate Signal Processing: Robert Bregovic, Hakan Johansson
      - Detection & Estimation: Dominic K. C. Ho
      - Image & Video Processing I: Behrouz Nowrouzian

- Image & Video Processing II: Behrouz Nowrouzian
  - Audio & Speech Processing II: Andreas Spanias
  - Frequency Masking Digital Filters: Yong Lian
  - Adaptive Signal Processing IV: Zhiping Lin
- 2.2 The 14th IFAC Symposium on System Identification (SYSID'2006), Newcastle, Australia, March 29-31, 2006. National Organizing Committee Member: Prof. Wei Xing Zheng; Registration Chair: Prof. Wei Xing Zheng.
  - 2.3 The 8th International Conference and Exhibition on Digital Signal Processing and its Applications (DSPA 2006), Moscow, Russia, March 29–31, 2006. International Technical Program Committee Member: Prof. Tapio Saramäki.; Plenary Talk: Prof. Tapio Saramäki.
  - 2.4 The 2006 IEEE International Conference on Networking, Sensing and Control (ICNSC'2006), Miami, Florida, USA, April 23-25, 2006. International Program Committee Member: Prof. Wei Xing Zheng.
  - 2.5 The International Conference on Computer and Communication Engineering (ICCCE), Malaysia, May 9-11, 2006. Member of International Advisory Committee: Prof. Yong Lian.
  - 2.6 Workshop on Multimodal User Authentication (MMUA), Toulouse, France, May 11-12, 2006. Program Committee Member: Prof. I. Pitas.
  - 2.7 IEEE International Conference on Acoustics, Speech, and Signal processing, (ICASSP 2006), Toulouse, France, May 14-19, 2006. Publicity Chair: Prof. Moncef Gabbouj.
  - 2.8 The 4th Hellenic Conference on Artificial Intelligence (SETN'06), Heraklion, May 18-20, 2006. Program Committee Member: Prof. I. Pitas.
  - 2.9 2006 International Symposium on Neural Networks (ISNN), Chengdu, China, May 29-31, 2006. Program Committee Member: Prof. H. K. Kwan.
  - 2.10 The 7th Nordic Signal Processing Symposium (NORSIG 2006), Reykjavik, Iceland, June 7–9, 2006. Tutorial Chair: Prof. Tapio Saramäki. Tutorial Session: “Efficient Techniques for Image Re-Sampling”: Prof. Tapio Saramäki together with his colleague. Technical Committee Member: Prof. Tapio Saramäki.
  - 2.11 The 6th World Congress on Intelligent Control and Automation (WCICA'2006), Dalian, China, June 21-23, 2006. International Program Committee Member: Prof. Wei Xing Zheng.
  - 2.12 International Conference on Communications, Circuits and Systems (ICCCAS 2006), Gui Lin, China, June 25-28, 2006. Track Chair (Theory and Methods of Signal Processing): Prof. H. K. Kwan; Technical Program Committee Member: Prof. H. K. Kwan; Special Session Organizer and Chair (Recent Advances in Digital Filters and Filterbanks, New Signal Processing Design Tools): Prof. H. K. Kwan.
  - 2.13 The 2006 International Joint Conference on Neural Networks (IJCNN'2006), Vancouver, British Columbia, Canada, July 16-21, 2006. International Program Committee Member: Prof. Wei Xing Zheng.
  - 2.14 IEEE Mid-West Symposium on Circuits and Systems (MWSCAS), San Juan, Puerto Rico, August 6-9, 2006. Steering Committee Member: Prof. B. Nowrouzian, Track Chair: Prof. H. K. Kwan, Review Committee Member: Prof.

- H. K. Kwan, Session Chair: Prof. B. Nowrouzian, Panel Chair: Prof. H. K. Kwan  
Student Best Student Paper Contest: Prof. H. K. Kwan.
- 2.15 International Conference on Signal Processing and Multimedia Applications (SIGMAP2006), Setubal, Portugal, August 7-10, 2006. Program Committee Member: Profs. I. Pitas and Wei Xing Zheng.
  - 2.16 The 2006 International TICSP Workshop on Spectral Methods and Multirate Signal Processing (SMMSP 2006), Florence, Italy, September 2-3, 2006. Co-Chairmen: Profs. Karen Egiazarian and Tapio Saramäki. See <http://sigwww.dmi.tut.fi/TICSP/>.
  - 2.17 International Conference on Pattern Recognition (ICPR 2006), Hong Kong, August 20-24, 2006. Program Committee Member: Prof. W. C. Siu.
  - 2.18 The 14th European Signal Processing Conference (EUSIPCO 2006), Florence, Italy, September 4-8, 2006. Technical Committee Member: Prof. W.C. Siu.
  - 2.19 International Conference on Artificial Neural Networks (ICANN-06), Athens, Greece, September 10-14, 2006. Program Committee Member: Prof. I. Pitas.
  - 2.20 IEE Conf on Visual Information Engineering (VIE2006), Bangalore, India, September 26-28, 2006. Program Committee Member: Prof. I. Pitas.
  - 2.21 The 21st IEEE International Symposium on Intelligent Control (ISIC'2006), Munich, Germany, October 4-6, 2006. International Program Committee Member: Prof. Wei Xing Zheng.
  - 2.22 International Symposium on Communications and Information Technologies 2006 (ISCIT 2006), Grand Mercure Fortune Hotel, Bangkok, Thailand, October 18- 20, 2006. General Co-Chair: Prof. Yoshikazu Miyanaga; Technical Program Committee Member: Prof. T-B Deng.
  - 2.23 2006 International Symposium on Visual Computing (ISVC06), Nevada, USA, November 6-8, 2006. Program Committee Member: Prof. I. Pitas.
  - 2.24 International Workshop on Digital Watermarking 2006(IWDW'06) Seoul, Korea. November 8-10, 2006. Program Committee Member: Prof. I. Pitas.
  - 2.25 The 11th Iberoamerican Congress on Pattern Recognition (CIARP), Cancun, Mexico, November 14-17, 2006, Program Committee Member: Prof. I. Pitas.
  - 2.26 2006 IASTED International Conference on Circuits, Signals, and Systems (ICSS 2006), California, USA, November 20-22 2006. International Program Committee Member: Prof. H. K. Kwan.
  - 2.27 IEEE International Conference on Advanced Video and Signal based Surveillance (AVSS 2006), Sydney, Australia, November 22-24, 2006. Program Committee Member: Prof. I. Pitas.
  - 2.28 Asia-Pacific Workshop on Visual Information Processing (APWVIP 2006), Hong Kong, December 2006. Advisory Committee Member: Prof. W. C. Siu.
  - 2.29 IEEE International Conference on Biomedical Circuits and Systems (BioCAS 2006), London, UK, November 29- December 1, 2006. Technical Program Co-Chair: Prof. Yong Lian.
  - 2.30 The IEEE Asia Pacific Conference on Circuits and Systems (APCCAS) 2006, Singapore, December 4-7, 2006. General Chair: Prof. Yong Ching Lim; Finance Chair: Zhiping Lin; International Liaison Co-Chair: Yoshikazu. Miyanaga; Special Session Co-chair: Prof. Paulo Sergio Ramirez Diniz; Technical Program Co-Chair: Prof. Yong Lian; Tutorial Co-Chair: Prof. Tapio Saramäki; Special Session Organizer: Prof. Tapio Saramäki; Exhibition Chair: Prof. Foo Say Wei;

Publication Chair: Prof. Gwee Bah Hwee; International Advisory Committee Chair: Prof. H. K. Kwan; International Advisory Committee Member: Profs. Takao Hinamoto, Masayuki Kawamata, and Behrouz Nowrouzian. Technical Program Committee Member: Profs. Wei Xing Zheng, Håkan Johansson and T-B Deng.

- 2.31 The 1st International Workshop on Semantic Media Adaptation and Personalization (SMAP 2006), Athens, Greece, December 4-5, 2006. Program committee: Prof. I. Pitas.
  - 2.32 The 1st International Conference on Semantic and Digital Media Technologies (SAMT 06), Athens, Greece, December 7-8, 2006. Program Committee Member: Prof. I. Pitas.
  - 2.33 The 45th IEEE Conference on Decision and Control (CDC'2006), San Diego, California, USA, December 13-15, 2006. Program Committee Member: Prof. Wei Xing Zheng.
  - 2.34 IEEE International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP06), Pasadena, USA, December 18-20, 2006. Steering committee: Prof. I. Pitas.
- 3 On going Conferences or Workshops where the DSP TC or Members of the TC is/are actively involved include the followings:
- 3.1 2007 IEEE International Symposium on Circuits and Systems (ISCAS 2007), New Orleans, USA, May 2007.
    - DSP Track Chair: Prof. Yoshikazu Miyanaga, Co-Chair: Prof. Behrouz Nowrouzian, Prof. H. K. Kwan.
    - Review Committee Members of DSP Track: Drs. Wei Xing Zheng, Yoshikazu Miyanaga, Gernot Hueber, Tapio Saramäki, Xinpeng Huang, Soontorn Orintara, Masayuki Kawamata, See-May Phoong, Håkan Johansson, Karen Egiazarian, Wan Chi Siu, Yong Ching Lim, Dominic Ho, David Tay, Tian-Bo Deng, Yong Lian, Ravi Prakash Ramachandran, Xinpeng Huang, Behrouz Nowrouzian, Uday Desai.
    - Technical Session Chairs (without her/his title):
      - 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 Orintara, 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 : U.B. 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
  - Digital Signal Processing II : Jun Zhang
  - Digital Circuits & Signal Processing: Pedro Julian
  - Circuits for Medical Applications: Yong Lian
- 3.2 The 9th International Symposium on Signal Processing and Its Applications (ISSPA'2007), Sharjah, United Arab Emirates (U.A.E.), February 2007. Technical Program Committee Member: Profs. Wei Xing Zheng and Ioannis Pitas.
  - 3.3 International Workshop on Mobile Information Technology for Emergency Response (MobileResponse 2007), Sankt Augustin, Germany, February 22-23, 2007. Program Committee: Prof. Ioannis Pitas.
  - 3.4 International Conference on Computing: Theory and Applications (ICC 2007), March 5-7, 2007. Kolkata, India, Program committee: Prof. Ioannis Pitas.
  - 3.5 The 2nd International Conference on Computer Vision Theory and Applications (VISAPP2007), Barcelona, Spain, March 8-11, 2007. Program Committee Member : Prof. Ioannis Pitas.
  - 3.6 The 9th International Conference and Exhibition on Digital Signal Processing and its Applications (DSPA 2007), Moscow, Russia, March 28–30, 2007. International Technical Program Committee Member: Prof. Tapio Saramäki.; Plenary Talk: Prof. Tapio Saramäki.
  - 3.7 The 2007 IEEE International Conference on Networking, Sensing and Control (ICNSC'2007), London, UK, April 2007. International Program Committee Member: Prof. Wei Xing Zheng.
  - 3.8 The IASTED International Conference on Communication Systems and Networks (AsiaCSN 2007), April 2-4, 2007. Phuket, Thailand, International Program Committee Member: Prof. Yoshikazu Miyanaga.
  - 3.9 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2007), Honolulu, Hawaii, U.S.A., April 15-20, 2007. Technical Program Committee Member: Prof. H. K. Kwan.
  - 3.10 International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS2007), Santorini, Greece, June 6-8, 2007. Program Committee: Prof. Ioannis Pitas.
  - 3.11 Iberian Conference on Pattern Recognition and Image Analysis (IbPRIA 2007), Girona, Spain, June 6-8, 2007. Program Committee: Prof. Ioannis Pitas.
  - 3.12 The 4th International Symposium on Neural Networks (ISNN'2007), Nanjing, China, June 2007. Publicity Co-Chair: Prof. Wei Xing Zheng, International Program Committee Member: Prof. H. K. Kwan.
  - 3.13 The 15th International Conference on Digital Signal Processing (DSP 2007), Cardiff, UK, July 1-4, 2007. Technical Committee Member: Prof. Ioannis Pitas.

- 3.14 2007 IASTED International Conference on Circuits, Signals and Systems (ICCSS 2007), Banff, Canada, July 2-4, 2007. International Program Committee Member: Prof. H. K. Kwan.
- 3.15 IEEE International Conference on Multimedia & Expo (ICME 2007), Beijing, China, July 2-5, 2007, July 2-5, 2007. International Organized Committee: Prof. Ioannis Pitas.
- 3.16 Visual Information Engineering: Bridging the gap between theory and applications (VIE-2007), London, UK, July 25 - 27, 2007. Technical Committee: Prof. Ioannis Pitas.
- 3.17 International Conference on Signal Processing and Multimedia Applications (SIGMAP2007), Barcelona, Spain, July 28-31, 2007. Program Committee member: Prof. Ioannis Pitas.
- 3.18 2007 International Conference on Telecommunications, Industry and Regulatory Development (ICTIR2007), Intercontinental Hotel, Bangkok, Thailand, August 20 - 21, 2007. General Chairs: Prof. Yoshikazu Miyanaga, Technical Program Chairs (Technology Track): Prof. Yoshikazu Miyanaga.
- 3.19 The 18th European Conference on Circuit Theory and Design (ECCTD 2007), Seville, Spain, August 26-30, 2007. Technical Program Committee Member and Track Chair for the track "Digital VLSI Design and Signal Processing": Håkan Johansson.
- 3.20 The 11th European Conference on Speech Communication and Technology (Interspeech 2007), Antwerp, Belgium, August 27-31, 2007. Scientific Review Committee Member of Speech Enhancement Track: Prof. H. K. Kwan.
- 3.21 2nd IAPR / IEEE International Conference on Biometrics (ICB 2007), Seoul, Korea, August 27-29, 2007. Program Committee: Prof. Ioannis Pitas.
- 3.22 International Conference on Computer Analysis of Images and Patterns (CAIP 2007), Vienna, Austria, August 27-29, 2007. Program Committee: Prof. Ioannis Pitas.
- 3.23 Engineering Applications of Neural Networks (EANN2007), Thessaloniki, Hellas, August 29-31, 2007. Program Committee: Prof. Ioannis Pitas.
- 3.24 The 2007 International TICSP Workshop on Spectral Methods and Multirate Signal Processing (SMMSP 2006), Moscow, Russia, September 1-2, 200. Co-Chairmen: Profs. Karen Egiazarian and Tapio Saramäki. See <http://sigwww.dmi.tut.fi/TICSP/>.
- 3.25 The 15th European Signal Processing Conference (EUSIPCO 2007), Poznan, Poland, September 3-7, 2007. Review Committee Member: Prof. Tapio Saramäki.
- 3.26 IEEE International Conference on Advanced Video and Signal based Surveillance (AVSS 2007), London, UK, September 5-7, 2007. Technical Program Committee: Prof. Ioannis Pitas.
- 3.27 International Workshop on Nonlinear Signal and Image Processing (NSIP 2007), September 10-12, 2007. Bucharest, Romania, Special Session Chairs: Prof. Yoshikazu Miyanaga, Publicity Chair: Prof. Moncef Gabbouj, International Program Committee Member: Prof. Ioannis Pitas.
- 3.28 The 8<sup>th</sup> Hellenic-European Research on Computer Mathematics and its Applications Conference (HERCMA 2007), Athens, Greece, September 20-22, 2007. Program Committee Member: Prof. Ioannis Pitas.

- 3.29 The 5th International Symposium on Image and Signal Processing and Analysis (ISPA 2007), Istanbul, Turkey, September 27-29, 2007. Program Committee Co-Chair: Prof. Tapio Saramäki, Program committee: Prof. Ioannis Pitas, Organizer of Two Special Sessions: Prof. Tapio Saramäki.
  - 3.30 Eccomas Thematic Conference On Computational Vision and Medical Image Processing (VipIMAGE 2007), Porto, Portugal, October 17-19, 2007. Member of Scientific Committee: Prof. Ioannis Pitas.
  - 3.31 International Conference on Tools with Artificial Intelligence (ICTAI 2007), Patras, Greece, October 2007. Program Committee: Prof. Ioannis Pitas.
  - 3.32 International Workshop on Smart Info-Media Systems in Bangkok, IEICE (IEICE SISB 2007), Bangkok, Thailand, November 1- 2, 2007. Honorary Chair: Prof. Yoshikazu Miyanaga.
  - 3.33 The 3rd Int. Symposium on Visual Computing (ISVC 2007), Lake Tahoe, USA, November 26-28, 2007. Program Committee Invitation: Prof. Ioannis Pitas.
  - 3.34 2007 International Workshop on Digital Watermarking (IWDW 2007), Guangzhou, China, November 2007. Technical Program Committee: Prof. Ioannis Pitas.
  - 3.35 The 2007 International Conference on Biomedical Circuits and System, IEEE (BioCAS 2007), Montreal, Canada, November 27-30, 2007. Tutorial Chair: Prof. Yong Lian.
  - 3.36 International Conference on Robotics, Vision, Information, and Signal Processing (ROVISP 2007), Penang, Malaysia, November 28-30, 2007. International Advisory Committee: Prof. Mohsin M Jamali.
  - 3.37 The 46th IEEE Conference on Decision and Control (CDC'2007), New Orleans, Louisiana, USA, December 2007. Program Committee Member: Prof. Wei Xing Zheng.
  - 3.38 Twelfth International Workshop on Combinatorial Image Analysis (IWCIA 2008), Buffalo, NY, USA, April 7-9 2008. International Program Committee: Prof. Ioannis Pitas.
  - 3.39 2008 IEEE International Symposium on Circuits and Systems (ISCAS 2008), Seattle, USA, May 2008. International Coordinator: Prof. Yong Lian.
  - 3.40 2008 IEEE International Conference on Acoustics, Speech, and Signal Processing, (ICASSP 2008), Las Vegas, USA, 2008. Organizing Committee Member: Prof. Lina Karam, Steering Committee Member: Prof. Lina Karam.
  - 3.41 Automatic Face and Gesture Recognition Conference (FG 2008), Amsterdam, September 2008. The Netherlands, Program Committee: Prof. Ioannis Pitas.
  - 3.42 2009 IEEE International Conference on Image Processing (IEEE ICIP 2009), Cairo, Egypt, 2009. Technical Program Chair: Prof. Lina Karam.
  - 3.43 IEEE International Conference on Image Processing (ICIP 2010), Hong Kong, September 2010. General Chair: Prof. Wan-Chi Siu.
- 4 Books and Book Chapters:
    - 4.1 Andreas Antoniou and Wu-Sheng Lu, *Practical Optimization: Algorithms and Engineering Applications*, Springer, April 2007.
- 5 Short Courses:

- 5.1 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.
  - 5.2 Prof. Zhiping Lin gave a short course on array signal processing to the industrial people in Singapore on 25-26 January, 2007.
- 6 Plenary Sessions, Keynote Speakers, Invited Lectures:
- 6.1 Prof. Zhiping Lin serves as a Distinguished Lecturer of the IEEE CAS Society for 2007-2008.
  - 6.2 Prof. Ioannis Pitas serves as a Plenary Invited Speaker of the 2006 International Symposium on Intelligent Signal Processing and Communication Systems, IEEE (ISPACS 2006), Yonago, Japan, December 12-15, 2006.
  - 6.3 Prof. Yoshikazu Miyanaga serves as an Invited Lecturer of the 2007 International Conference on Telecommunications, Industry and Regulatory Development (ICTIR2007), Bangkok, Thailand, August 20 - 21, 2007.
- 7 Editorial Services:
- 7.1 Prof. Tapio Saramäki serves as an Associate Editor, Circuits, Systems and Signal Processing.
  - 7.2 Prof. Yong Lian serves as an Associate Editor, IEEE Transactions on Circuits and Systems II.
  - 7.3 Prof. Yong Lian serves as an Associate Editor, Circuits, Systems and Signal Processing.
  - 7.4 Prof. Yong Lian servers as an Associate Editor, IEEE Transactions on Biomedical Circuits and Systems.
  - 7.5 Prof. Zhiping Lin serves as an Associate Editor, Circuits, Systems and Signal Processing (2000 – present).
  - 7.6 Prof. Zhiping Lin serves as a Co-Editor, Multidimensional Systems and Signal Processing (2005 – present).
  - 7.7 Prof. Wu-Sheng Lu serves as an Associate Editor for IEEE Trans. on Circuits and Systems, I, starting from Jan. 2004.
  - 7.8 Prof. Truong Nguyen serves as an Associate Editor, IEEE Transactions on Image Processing.
  - 7.9 Prof. Truong Nguyen serves as an Associate Editor, IEEE Signal Processing Letters.
  - 7.10 Prof. Truong Nguyen serves as an Associate Editor, IEEE Transactions on CAS II.
  - 7.11 Prof. See-May Phoong serves as an Associate Editor, IEEE Trans. Circuits and Systems II.
  - 7.12 Prof. See-May Phoong serves as an Associate Editor, IEEE Signal Processing Letters.
  - 7.13 Prof. T. Stouraitis serves as a Regional Editor-Europe, Journal of Circuits, Systems, and Computers.
  - 7.14 Prof. T. Stouraitis serves as an Associate Editor, IEEE Transactions on VLSI.
  - 7.15 Prof. T. Stouraitis serves as an Associate Editor, T-CAS II.

- 7.16 Prof. J. B. Evans serves as an Associate Editor, IEEE Communications Letters.
- 7.17 Prof. Y. Miyanaga serves as an Associate Editor, Journal of Signal Processing, Japan.
- 7.18 Prof. Yuan-Pei Lin serves as an Associate Editor, Multidimensional, Systems and Signal Processing, Academic Press, 1997-
- 7.19 Prof. Yuan-Pei Lin serves as an Associate Editor, IEEE Transaction on Circuits and Systems II.
- 7.20 Prof. Yuan-Pei Lin serves as an Associate Editor, IEEE Transaction on Signal Processing 2002-2006.
- 7.21 Prof. Yuan-Pei Lin serves as an Associate Editor, IEEE Signal Processing Letters,
- 7.22 Prof. Yuan-Pei Lin serves as an Associate Editor, EURASIP Journal on Applied Signal Processing,
- 7.23 Prof. Wei Xing Zheng serves as an Associate Editor, IEEE Trans. on Circuits and Systems I.
- 7.24 Prof. Wei Xing Zheng serves as an Associate Editor, IEEE Trans. on Automatic Control.
- 7.25 Prof. K. C. Ho serves as an Associate Editor, IEEE Transactions on Signal Processing.
- 7.26 Prof. K. C. Ho serves as an Associate Editor, IEEE Signal Processing Letters.
- 7.27 Prof. Ravi P. Ramachandran serves as an Associate Editor for the IEEE Circuits and Systems Magazine, and the journal Pattern Recognition.
- 7.28 Dr. Ravi P. Ramachandran serves as a Member of editorial board, IEEE CAS Magazine.
- 7.29 Prof. Håkan Johansson served as an Associate Editor, IEEE Signal Processing Letters (2004-2007).
- 7.30 Prof. Håkan Johansson serves as an Associate Editor for the IEEE Transactions on Signal Processing Letters (2006-present).
- 7.31 Prof. Håkan Johansson serves as an Associate Editor for the IEEE Transactions on Circuits and Systems II (2007-present).
- 7.32 Prof. Håkan Johansson serves as one of the Guest Editors for the Special Issue on Signal Processing for Data Converters in the EURASIP Journal on Advances in Signal Processing.
- 7.33 Prof. Lina Karam serves as an Associate Editor, the IEEE Signal Processing Letters (2004-present).
- 7.34 Dr. Sankar Basu serves as an Editor-in Chief, IEEE Trans. on Circuits and Systems I.
- 7.35 Prof. Li Xu serves as an Associate Editor, Multidimensional Systems and Signal Processing, (2000-present)
- 7.36 Prof. David Tay serves as an Associate Editor, International Journal of Multidimensional Systems and Signal Processing, Kluwer Academic Press.
- 7.37 Prof. Ioannis Pitas serves as Editorial Board Member, Journal of Signal, Image and Video Processing.
- 7.38 Prof. Wei Xing Zheng serves as an Associate Editor, IEEE Signal Processing Letters.

8 IEEE Services:

- 8.1 Prof. M. N. S. Swamy served on the Steering Committee for the IEEE Transactions on Multimedia.
- 8.2 Prof. M. N. S. Swamy served on the Steering Committee for the IEEE Transactions on Mobile Computing.
- 8.3 Prof. M. N. S. Swamy served on the Steering Committee for the Midwest Symposium on Circuits and Systems.
- 8.4 Prof. J. B. Evans serves as Chair, IEEE Communications Society Technical Committee on High-Speed Networking.
- 8.5 Prof. J. B. Evans serves as the Secretary, Technical Activities Committee, IEEE Communications Society.
- 8.6 Prof. J. B. Evans serves as the Chair, Distinguished Lecturers Committee, IEEE Communications Society.
- 8.7 Prof. Lina Karam serves as a member of the IEEE Signal Processing Society Conference Board.
- 8.8 Prof. Lina Karam serves as a member of the IEEE Signal Processing Society's Image and Multidimensional Signal Processing (IMDSP).
- 8.9 Prof. T. Stouraitis serves as a member of the CASS board of governor(2006).
- 8.10 Prof. T. Stouraitis serves as a member of the CASS Ad hoc Committee on Conference Policies and Procedures (2006).
- 8.11 Prof. T. Stouraitis serves as a member of the CASS Long Term Strategy Committee (2005-2006).
- 8.12 Prof. Paulo S. R. Diniz serves as a member of the Fellow Committee, IEEE CASS.
- 8.13 Prof. Zhiping Lin serves as the Chair of CAS Singapore Chapter, 2007.
- 8.14 Prof. Wei Xing Zheng serves as the Secretary (2006-2007) of Technical Committee on Neural Systems and Applications, IEEE Circuits and Systems Society.
- 8.15 Prof. Wei Xing Zheng serves as the Secretary (2006-2008) of Technical Committee on Blind Signal Processing, IEEE Circuits and Systems Society.
- 8.16 Prof. Wei Xing Zheng serves on the International Steering Committee of the IEEE Asia Pacific Conference on Circuits and Systems (APCCAS).
- 8.17 Prof. Yong Lian serves as the CASS VP Region 10 (2007-2008).
- 8.18 Prof. Yong Lian serves as the Chair of International Steering Committee of Asia Pacific Conference on Circuits and Systems.
- 8.19 Prof. Yong Lian serves as a member of the CASS Ad hoc Committee on Industrial Liaison.
- 8.20 Prof. Yong Lian serves as the Vice Chair of CASS Biomedical Circuits and Systems Technical Committee.
- 8.21 Prof. Yong Lian serves as the CASS Representative to the BioTech Council.
- 8.22 Prof. Bah Hwee Gwee serves as the Chair of IEEE Singapore Circuits and Systems Chapter in 2006.
- 8.23 Prof. Bah Hwee Gwee serves as a Reviewer in IEEE Transactions in CAS II.
- 8.24 Prof. Ioannis Pitas serves as a Member of the Intelligent Systems Applications Technical Committee (ISATC) of the IEEE Computational Intelligence Society (CIS).

- 8.25 Prof. H. K. Kwan served as the Past Chair (2004-2005) of Neural Systems and Applications Technical Committee.
  - 8.26 Prof. H. K. Kwan served as International Advisory Committee Member, IEEE International Conference on Intelligent Information Hiding and Multimedia Signal Processing, Pasadena, CA, U.S.A., December 18-20, 2006.
  - 8.27 Prof. H. K. Kwan served as International Advisory Committee Chair, IEEE Asia Pacific Conference on Circuits and Systems, Singapore, December 4-7, 2006.
  - 8.28 Prof. H. K. Kwan served as International Steering Committee Member, International Symposium on Intelligent Signal Processing and Communication Systems, December 12-15, 2006.
  - 8.29 Prof. Y. Miyanaga serves as a Chair (2003-present) of International Steering Committee, IEEE International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS).
  - 8.30 Prof. Y. Miyanaga serves as a Chair of International Steering Committee (2006-present), IEEE International Symposium on Communications and Information Technologies (ISCIT).
  - 8.31 Prof. Y. Miyanaga serves as an International Steering Member, IEEE International Conference on Multimedia & Expo (ICME).
- 9 DSP TC Technically Co-Sponsored Conferences/Symposia/Workshops:
- 9.1 “Second International Symposium on Communications, Control and Signal Processing (ISCCSP 2006), Kenzi Farah Hotel, Marrakech, Morocco March 13-15, 2006”. < <http://www.fsr.ac.ma/ISCCSP2006/> >.
  - 9.2 “2006 IEEE International Symposium on Circuits and Systems (ISCAS 2006), KOS International Conference Center, Greece, May 21-24, 2006”.
  - 9.3 “The 7th International Symposium on Signal, Circuits and Systems (ISSCS 2006), Iasi, Romania, July 14-15 2006”.
  - 9.4 “International Symposium on Communications and Information Technologies 2006 (ISCIT 2006), October 18-20, 2006, Grand Mercure Fortune Hotel, Bangkok, Thailand”.
  - 9.5 “2006 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2006), December 12- 15, 2006, Yonago Convention Center, Tottori, Japan”.
  - 9.6 “2007 IEEE International Symposium on Circuits and Systems (ISCAS 2007), New Orleans, USA, May 2007”.
  - 9.7 “Fifth International Workshop on Content-Based Multimedia Indexing (CBMI-2007), June 25-27, 2007, Bordeaux, France”.
  - 9.8 “2007 IEEE-EURASIP International Workshop on Nonlinear Signal and Image Processing, (NSIP2007), September 10-12, 2007, Bucharest, Romania”.
  - 9.9 “International Symposium on Communications and Information Technologies 2007 (ISCIT 2007), October 17-19, 2007, Sydney, Australia”.
  - 9.10 “2007 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2007), November 28-December 1, 2007, Huaqiao University, Xiamen, China”.
  - 9.11 “International Symposium on Wireless Pervasive Computing 2008 (ISWPC 2008), Santorini, Greece, May 7–9, 2008”.

## 10 Other Activities:

- 10.1 Tampere International Center for Signal Processing (TICSP), Tampere University of Technology (TUT): The Center has acquired the status of Center of Excellence given by the Academy of Finland for 2000–2006 and for the second time for 2006-2011. As a matter of fact, these statues were given to the Signal Processing Algorithm Group (SPAG) working inside the Institute of Signal Processing in TUT. The Director for TICSP serves as Prof. Jaakko Astola. Three of the DSP TC members, Profs. K. Egiazarian, M. Gabbouj, and T. Saramäki, are heavily involved in arranging the activities of TICSP. Profs. K. Egiazarian, M. Gabbouj, and T. Saramäki are the Team Leaders in SPAG (Signal Processing Algorithm Group). Several TC members (Profs. Pitas, Bellanger, Gabbouj and Nguyen) are members of the Advisory Board of TICSP. TICSP is an institute created to provide a proper environment for a rapid transfer of the latest ideas between first-class researchers in industry and academia. Its purpose is to provide a proper logistic, financial and human resource environment to adequately host exchanges of highly competent researchers. TICSP invites for periods of 2 to 12 months researchers at all levels: visiting professors, post-doctorate, and Ph.D. students, to engage research at the Signal Processing Laboratory in cooperation with the researchers of the neighbouring academic and industrial research institutes. The main purpose is to generate fruitful cooperation between scientists all around the world. Part of the activities of TICSP is organizing workshops. It has also its own publication series to appear twice a year. For more information, visit the homepage at URL: <http://sigwww.cs.tut.fi/TICSP/>.
- 10.2 Prof. Yong Lian has volunteered to set up and maintain our DSP TC web at <http://www.ieee-cas.org/> which serves to promote the goal of the DSP TC.
- 10.3 Prof. Moncef Gabbouj serves as the vice-director of the Signal Processing Center of Excellence nominated by the Academy of Finland (2006-2011).
- 10.4 Prof. Moncef Gabbouj was nominated as Honary Visiting Professor of Jilin University, Jilin, China for 5 years starting in 2005.
- 10.5 Prof. Ioannis Pitas serves as the Greek National Council Member of Research and Technology.
- 10.6 Prof. Ioannis Pitas serves as a reviewer, Committee for Research Evaluation (CIVR), Italy.
- 10.7 Prof. Ioannis Pitas serves as a reviewer, the Centres of Excellence, KU Leuven, 2005
- 10.8 Prof. Ioannis Pitas serves as a reviewer, the EU funded R&D project.
- 10.9 Prof. Ioannis Pitas serves as a EURASIP Adcom member (European Liaison).

## 11 Some News from the TC Members are listed below:

- 11.1 Profs. Paulo Diniz and Tapio Saramäki were the recipients of the 2007 IEEE Circuits and Systems Society's Guillemin-Cauer Award together with their colleagues Sergio Netto and Miguel Furtado. For Tapio Saramäki, it was the second time of receiving this award. This is probably due his main motto of doing research work and is the following: "Creative madness" fascinates me – When trying to generate brand-new ideas, it is very better to kick those silly

formulas out in order to give a most of the space to pure intuition. In addition, one should play in his/her mind as a child and to have every now and then creative fun with friendly colleagues.

- 11.2 Prof. Thanos Stouraitis directs the newly established International multidisciplinary Graduate Program on "Signal and Image Processing," based at the University of Patras, Greece.
- 11.3 Prof. Joseph B. Evans was appointed as a Program Manager in the Division of Computer and Network Systems, Directorate of Computer & Information Sciences and Engineering at the National Science Foundation, beginning in August 2003. He oversees a \$70 million portfolio of projects in networking systems, with a particular emphasis on wireless networks and network security.
- 11.4 Our DSP TC 2007 Annual Meeting is scheduled to take place at Jasperwood - 3rd Floor, Hilton New Orleans Riverside on May 30, 2007 (Wednesday), 12:50 pm to 14:30 pm during the 2007 IEEE International Symposium on Circuits and Systems, New Orleans, USA.

## 12 Acknowledgements:

The Chair (Yoshikazu Miyanaga) would like to acknowledge Prof. Behrouz Nowrouzian, Secretary, for assisting the preparation of this annual report; Prof. Yong Lian for maintaining a professional DSP TC web page; and Prof. H. K. Kwan for serving as the Past Chair.

Submitted by Prof. Yoshikazu Miyanaga, DSP TC Chair.

Date: May 23, 2007.