2007 Annual Report (May 2006 – April 2007)
Multimedia Systems and Applications Technical Committee
IEEE Circuits and Systems Society

Chairman: Prof. Oscar C. Au
Secretary: Prof. Jar-Ferr Kevin Yang

1. Technical Committee Meetings:

The Multimedia Systems and Applications Technical Committee in IEEE Circuits and Systems Society annually organized two TC meetings, which were held in ISCAS and ICME. The details of TC Meetings are enlisted in the following:

1.1. TC Meeting in ISCAS 2006

Date: 23 May 2006 (Tuesday, during ISCAS 2006)
Venue: Rm 2.1, ISCAS 2006 Conference Venue, KICC, Island of Kos, Greece
Time: 1:20pm – 2:30pm
Chairman: Oscar Au
Secretary: Jar-Ferr (Kevin) Yang

Attendance (in order of first name):
Alex Loui, Eastman Kodak, Alexander.loui@kodak.com
Bin-Da (Brain) Liu, National Cheng Kung University, bdliu@ieee.org
Bing Sheu, National Chiao Tung University, b.sheu@ieee.org
Ce Zhu, Nanyang Technological University, eczhu@ntu.edu.sg
Chua-Chin Wang, National Sun Yat-Sen University, ccwang@ee.nsysu.edu.tw
Enrico Magli, Politecnico di Torino, Italy, enrico.magli@polito.it
Hui Cheng, Sarnoff Corp, hcheng@sarnoff.com
Jar-Ferr (Kevin) Yang, National Cheng Kung University, jfyang@ee.ncku.edu.tw
Jen-Shiun Chiang, Tamkang University, chiang@ee.tku.edu.tw
Jhing-Fa Wang, National Cheng Kung University, wangjf@csie.ncku.edu.tw
Lap-Pui Chau, Nanyang Technological University, elpchau@ntu.edu.sg
Ming-Ting Sun, University of Washington, sun@ee.washington.edu
Oscar Au, Hong Kong University of Science and Technology, eeau@ust.hk
Pau-Chu (Julia) Chung, National Cheng Kung University, pcchung@ee.ncku.edu.tw
Sankar Basu, National Science Foundation, sabasa@nsf.gov
Tichao Chiang, National Chiao Tung University, tchiang@mail.nctu.edu.tw
Tsung-Han Tsai, National Central University, han@ee.ncu.edu.tw
Wai-Chi Fang, Jet Propulsion Lab, wfang@jpl.nasa.gov
Wen-Liang Hwang, Academia Sinica, whwang@iis.sinica.edu.tw

Agenda
1. Opening of meeting
2. Introduction and welcome
3. Approval of the meeting agenda
4. Introduction and approval of new members
5. Approval of past meeting minutes
6. Report on accomplished technical activities (May 2005 to May 2006)
7. Planning of upcoming events and near future activities
8. Award recognition and endorsement
9. New business
10. Adjournment

1. Opening of Meeting
Oscar Au welcomed everyone and invited everyone to take turns to introduce themselves.

2. Approval of the Meeting Agenda,
Oscar Au moved to approve the agenda. Wai-Chi Fang seconded. All approved. Motion carried.

3. Introduction of New Members:
Prof. Chua-Chin Wang is nominated by Prof. Ming-Ting Sun;
Dr. Wen-Liang Hwang is nominated by Dr. Wai-Chi Fang;
Prof. Pau-Choo (Julia) Chung is nominated by Prof. Wai-Chi Fang;
Prof. Jhing-Fa Wang is nominated by Prof. Wai-Chi Fang;
Prof. Lap-Pui Chau is nominated by Prof. Oscal Au;
Each nominee was asked to introduce themselves. All approved to accept these 5 nominees as new members. Other nominations can still be considered through email voting.

4. Approval of Past Meeting Minutes,
For the meeting minutes of ISCAS 2005, Ming-Ting Sun moved to approve. Wai-Chi Fang seconded. All approved. Motion carried.
For the meeting minutes of ICME 2005, Tihao Chiang moved to approve. Alex Loui seconded. All approved. Motion carried.

5. Report on Accomplished Technical Activities (May 2005 to May 2006)
Oscar Au reported the collected technical activities from all TC members (See separated file).

6. Planning of Upcoming Events and Near Future Activities
   a. Prof. Jhing Fa Wang, as the General Chair, will host the ISCAS 2009 in Taipei. He will try his efforts to make the best ISCAS.
   b. Dr. Wai-Chi Fang will organize Multimedia conference in Pasadina (JPL)
   c. CAS Society has found (budget) for 2006, multiple conference (Mini-conference) held in Fall. submitted to VP-conference TC will be supported
   d. BOG Fang Said – System Console provided system thinkings and (will not be a society), multimedia integrated system – system journals (for complex multimedia systems) should be approved by June 2007. (passed level-1 proof) intent send to TC members
      (Notice by email if 2nd)

7. Award Recognition and Endorsement:

8. New business

   Prof. Fang moved to remove MSATC members who are not active member for 3 consecutive years. However, those inactive MSTAC members need to be informed by the Chairman before the removing process. The active members as those who submit annual technical activity report to the Chairman with sufficient technical activities related to the MSATC. Prof. Enrico Magli Seconded. All approved. Motion carried.

9. Adjournment
   The TC meeting was adjourned at 2:34pm.

1.2. TC Meeting in ICME 2006
Date: 10 July 2006 (Monday during ICME 2006)
Venue: ICME Conference Hotel: Hilton Toronto, Richmond Room
Time: 12:00pm – 14:00pm
Chairman: Oscar Au
Secretary: Jar-Ferr (Kevin) Yang

Attendance (in order of first name):
   Cha-Wen Lin, National Chung Chen University, cwlin@cs.ccu.edu.tw
   Guobin (Jacky) Shen, Microsoft Research Asia, jackysh@microsoft.com
   Howard Leung, City University of Hong Kong, howard@cityu.edu.hk
   Jar-Ferr (Kevin) Yang. National Cheng Kung University, jfyang@ee.ncku.edu.tw
   Jin Li, Microsoft Research, jinl@microsoft.com
   Lap-Pui Chau, Nanyang, Technological University, elpchau@ntu.edu.sg
   Min Wu, University of Maryland, minwu@umd.edu
   Oscar Au, Hong Kong University of Science and Technology, eeau@ust.hk

Pau-Chu (Julia) Chung, National Cheng Kung University, pcchung@ee.ncku.edu.tw
Rongshan Yu, Dolby Laboratories, rongshan.yu@dolby.com
Tsuhan Chen, CMU, tsuhan@cmu.edu

Agenda
1. Opening of meeting
2. Introduction and welcome
3. Approval of the meeting agenda
4. Approval of the meeting minutes
5. Introduction and approval of New members
6. Report on recent technical activities (May 2005 to May 2006)
7. Planning of upcoming events and near future activities
8. Adjournment

Chairman: Oscar Au
Secretary: Jar-Ferr (Kevin) Yang

1. Opening of Meeting:
Oscar Au welcomed everyone and invited everyone to take turns to introduce themselves.

2. Approval of the Meeting Agenda,
Oscar Au moved to approve the agenda. Kevin Yang seconded. All approved. Motion carried.

3. Approval of Past Meeting Minutes,
For the meeting minutes of ISCAS 2006, Pau-Chu Chung moved to approve. Kevin Yang seconded. All approved. Motion carried.

4. Introduction of New Members:
Tsuhan Chen nominated Prof. Howard Leung
Oscar Au nominated Dr. Rongshan Yu, to join the TC. Each nominee was asked to introduce themselves. All approved to accept these two nominees as new members. Other nominations can still be considered through email voting.

5. Report on recent technical activities (May 2005 to May 2006)

6. Planning of Upcoming Events and Near Future Activities
   a. It is reported that TC members are interested in participating in the paper review of ISCAS and ICME. To reflect the true multimedia, the MSATC shall invite more people in speech and audio areas.
   b. To help the members, who are unable to attend the meeting, the MSATC will consider setting up teleconference call by using latest internet phone technology. Dr. Shen as a volunteer will investigate the setup of the conference call for future meeting.
   c. Promoting some other activities: Multimedia Game support conference and support the mini-conference, our TC might take the responsibility to organize the sub-conferences, which are used for the membership promotion and raise the income for the society also.
   d. Consider the different design of conferences as SIGRAPH, or multipurpose of conference to truly reflect the Expo. In the future, the papers submitted to certain topics should be issued by video demo. From system point of view, the review by the video demo could help to justify the result easily. If we could give the more honor (benefit) for such special sessions:: Jin Li, Oscar Au, and Tsuhan Chen will be interested in organizing such special sessions. Rongshan Yu will be interested in organization of audio demo related special sessions.
   e. Adding another obligation: helping review of conference papers.
   f. On March, the Secretary should inform all the TC members to submit the reports.
   g. TMM Issue– EIC of IEEE Trans. on Multimedia takes terms for 4 societies. The issues of the TMM include:
      Steering Committee:
      New AE being nominated
      Scope of TMM
      Special issue
      New EIC

h. Members are reminded to propose special session and tutorials for ISCAS 2006.

7. **New Business:**
Cha-Wen Lin as the substitution of Chin-Yung Lin (Program Chair) presented the proposal for bidding the ICME 2009, which will be held in Cancun Mexico. The MSATC approved the motion to support this proposal. Oscar Au motioned, Jacky Shen seconded, All approved. Motion carried.

8. **Adjournment**
The TC meeting was adjourned at 1:28pm.

1.3. Upcoming TC Meeting in ISCAS 2007

Date: 29 May 2007 (Tuesday, during ISCAS 2007)
Venue: ISCAS 2007, New Orleans, LA, USA
Time: 1:20pm – 2:30pm
Chairman: Oscar Au
Secretary: Jar-Ferr (Kevin) Yang

Possible Attendance (to be added**):**
Bin-Da (Brain) Liu, National Cheng Kung University, bdliu@ieee.org
Enrico Magli, Politecnico di Torino, Italy, enrico.magli@polito.it
Jar-Ferr (Kevin) Yang, National Cheng Kung University, jfyang@ee.ncku.edu.tw
Jhing-Fa Wang, National Cheng Kung University, wangjf@csie.ncku.edu.tw
Lap-Pui Chau, Nanyang Technological University, elpchau@ntu.edu.sg
Oscar Au, Hong Kong University of Science and Technology, eeau@ust.hk
Pau-Chu (Julia) Chung, National Cheng Kung University, pcchung@ee.ncku.edu.tw
Ming-Ting Sun, University of Washington, sun@ee.washington.edu
Chua-Chin Wang, National Sun Yat-Sen University, ccwang@ee.nsysu.edu.tw
Tichao Chiang, National Chiao Tung University, tchiang@mail.nctu.edu.tw
Wen-Nung Lie, National Chung Chen University, wnlie@ee.ccu.edu.tw
Cha-Wen Lin, National Chung Chen University, cwlin@cs.ccu.edu.tw
Gwo Giun Chris Lee, National Cheng Kung University, clee@mail.ncku.edu.tw
Yun-Qing Shi, New Jersey Institute of Technology, yun-qing.shi@njit.edu

2. Activities in TC-Related Conferences (May'06 –April'07):

The Multimedia Systems and Applications Technical Committee in the IEEE Circuits and Systems Society annually support two major IEEE CAS hosted conferences, the International Symposium on Circuits and Systems (ISCAS) and International Conference on Multimedia and Expos (ICME). The details of activities in supports of ISCAS 2006, ICME 2006, ISCAS 2007, ICME 2007, and many more conferences are enlisted in the following:

2.1. ISCAS 2006, Island of Kos, Greece, 21 - 24 May 2006:
- Multimedia Systems and Applications Track Chair: Oscar Au
- Nanoelectronics and Gigascale Systems Track Chair: Wai-Chi Fang
- TPC member: Wai-Chi Fang, Yu Hen Hu, Oscar Au, Enrico Magli, Min Wu and many others
- Special session Co-Chair: Chin-Teng Lin
- Session Chairman: Bin-Da Liu, Alexander Loui, and Jiwu Huang, Bin-Da Lu, Jar-Ferr Yang many others
- Special Session: "Multimedia Watermarking and Data Hiding" organized by Yun Q. Shi, Alex Kot,

2.2. ICME 2006, Toronto, Canada, 9-12 July 2006:
- Track and TPC Chair: Chang Wen Chen
- Track: Multimedia Hardware, Architecture, and Systems
- TPC member: Jacky Guobin Shen, Enrico Magli, Oscar Au, Bin-Da Liu, Min Wu and the others.
- Tutorial Chair, Anthony Vetro
- Best Paper Award Committee: Min Wu
- Tutorial Speaker, "Steganography and Steganalysis": Yun Q. Shi
- Tutorial speaker, "Capturing Light and Motion: Multimedia Techniques for Animation and Movie Production" Howard Leung

2.3. ISCAS 2007, New Orleans, USA, 26 - 30 May, 2007:
Participations of Multimedia Systems and Applications (MSA) Technical Committee members include:
- MSA Track Chair: Oscar C. Au
- Nano-Giga Technology Track Chair: Wai-Chi Fang, S.D. Cotofana
- Technical Program Committee Members:
    Alexander Loui. Yu Hen Hu, Wai-Chi Fang, Oscar C. Au, Bin-Da Liu, Jacky Guobin Shen. and the others.
- RCM for Multimedia Systems and Application Track:
    Tihao Chiang, Gwo Giun Lee, Howard Leung, Enrico Magli, Min Wu, Jar-Ferr Yang, Pau-Choo (Julia) Chung, Bin-Da Liu, and the others.
- RCM for Track Life Science Systems and Applications Track: Pau-Choo (Julia) Chung
- RCM for Neural Systems and Applications Track: Pau-Choo (Julia) Chung
- Organizer of special session on "Circuits and Systems in Community Health Care Applications": Pau-Choo (Julia) Chung
- Co-organizer of special session on "Resource and Content Aware Video Streaming/Adaptation over Networks" Enrico Magli
- Session Chairs/Co-Chairs:
    Tihao Chiang, Bin-Da Liu, Wai-Chi Fang, Oscar C Au, Chua-Chin Wang. Jar-Ferr Yang and others.
- Reviewers:
    Tihao Chiang, Gwo Giun Lee, Anthony Vetro, Chua-Chin Wang, Jar-Ferr Yang, Milind R. Naphade, Jacky Shen, Yun Q. Shi, and the others.
- International Coordinator: Bin-Da Liu

2.4. ICME 2007, Beijing, China, July 2 - 6, 2007
Many MSA TC members participated in the ICME 2007:
- Technical Program Committee Chair: Yun Q. Shi
- Technical Program Co-chairs Yu Hen Hu, Joern Ostermann
- International Advisory Board: Ming-Ting Sun, Peter Pirsch, Chang-Wen Chen, Liang-Gee Chen
- Tutorial Co-chair: Ming-Ting Sun, Oscar C. Au
- TPC member: Alexander Loui, Jacky Shen, Enrico Magli, Min Wu and the others.
- Multimedia Systems and Applications Track Chairs: Wan-Chi Fan,
- Reviewer: Tihao Chiang, Pau-Choo (Julia) Chung, Milind R. Naphade, Jacky Shen, Yun Q. Shi, Howard Leung and the others.

2.5. International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP 06), Dec. 18-20, 2006 (This workshop is initiated by our MSA TC and co-sponsored by IEEE CAS Society)
- General Co-Chairs: Wai-Chi Fang;
- General Vice Chairs: Jhing-Fa Wang
- Technical Program Vice Chairs: C.-C. Jay Kuo
- Invited Sessions Co-Chairs: Chia-Wen Lin, Ming-Ting Sun
- Asia Liaison Co-Chairs: Bin-Da Liu;
- North America Liaison Co-Chairs: Ming-Ting Sun, Chang Wen Chen
- Europe Liaison Co-Chairs: Peter Pirsch
- Steering Committee: Wai-Chi Fang, Jiwu Huang, Yun-Qing Shi
- International Advisory Committee: Tihao Chiang, Yu-Hen Hu, Chung-Sheng Li, Peter Pirsch, Bing Sheu, Yun Q. Shi,
- Tutorial Co-Chair : Oscar C. Au, Liang-Gee Chen, Min Wu
- TPC member: Tsuhan Chen, Ming-Ting Sun, Oscar Au, Chang Wen Chen, Liang Gee. Chen, Tsuhan. Chen , C.S. Li, Ching-Yung Lin, Chin-Teng Lin, Enrico Magli, Min Wu
- Keynote speaker, "Digital Data Forensics", Yun Q. Shi
- Special Session "Multimedia Networking and Communications in Dynamic Heterogeneous Environments" Organizer: Enrico Magli
- Tutorial: "A tutorial on video coding standards (MPEG-1/2/4, H.261/3/4, AVS) and the standardization process", Oscar C. Au.

2.6. IEEE TENCON 2006, Hong Kong, November 14-17, 2006
- International Steering Committee: Chang Wen Chen
- Technical Program Committee: Oscar C. Au, Bin-Da Liu, Jar-Ferr Kevin Yang

- Reviewer: Jar-Ferr Kevin Yang
- Session Chairs Jar-Ferr Kevin Yang, Jhing-Fa Wang

2.7. IEEE Asia Pacific Conference on Circuits and Systems (APCCAS 2006), **Dec. 4-7, Singapore**
- International Steering Committee Chair, Bin-Da Liu, Pau-Choo Chung
- TPC Co-Chair, the Regional Inter-University Postgraduate Electrical & Electronic Engineering Conference (July 13-14, 2006, Macao, China)

2.8. IEEE International Conference on Networking, Sensing and Control 2007, **April 15-17, 2007, London, United Kingdom**
- International Program Committee Member: Bin-Da Liu

2.9. 2007 International Symposium on VLSI Design, Automation and Test, **April 25-27, 2007, Hsinchu, Taiwan**
- General Chair: Chua-Chin Wang,
- TPC Member Bin-Da Liu

2.10. IEEE Vehicular Technology Conference (VTC) 2006
- Best Student Paper Award, Man-On Pun, Michele Morelli and C.-C. Jay Kuo, "Iterative equalization and decoding for unsynchronized OFDMA uplink transmissions," IEEE Vehicular Technology Conference (VTC 2006-F), Montreal, Canada, September 25-28, 2006.

2.11. IEEE Int. Conf. on Acoustics, Speech and Signal Processing (ICASSP), May 2007.
- Finance Chair: Min Wu
- Technical Program Committee: Enrico Magli

2.12. IEEE Int. Conf. on Image Processing (ICIP, Atlanta GA, Oct 2006, SP Society)
- TPC member: Min Wu, Alexander Loui, Enrico Magli, Jacky Guobin Shen
- Reviewer: Milind R. Naphade, Jiwu Huang, Oscar C. Au

2.13. SPIE Conference on Security, Watermarking and Steganography (Jan 2006):
- TPC member: Min Wu

2.14. Second Int. Meeting on Microsensors and Microsystems, Jan 16-18, 2006, Tainan, Taiwan
- Technical Program Co-Chair: Bin-Da Liu

2.15. Image and Video Retrieval, 2006
- Program Co-Chair: Milind Naphade

2.16. ARDA Challenge Workshop Series on Large Scale Concept Ontology for Multimedia Understanding:
- Milind Naphade is leading this workshop

2.17. International Multimedia Modeling Conference (MMM'2007), Singapore, January 9-12, 2007
- Area Chair:Lap-Pui Chau

2.18. 2006 IEEE Int. Conf. on Networking, Sensing and Control, Apr. 23-25, 2006, Ft. Lauderdale, Florida, USA
- TPC member: Bin-Da Liu

2.19. VLSI-TSA DAT, Apr. 26-28, 2006, Hsinchu, Taiwan.
- TPC member: Bin-Da Liu

2.20. Conference on Broadnets Wireless 2006, San Jose, CA, USA.
- TPC member: Ramalingam Sridhar

2.21. Seventh ACM Int. Sym. On Mobile Ad Hoc Networking and Computing (MobiHoc), 2006, Florence, Italy.
- PTC member: Ramalingam Sridhar

2.22. IEEE Int. Sym. On a World of Wireless, Mobile and Multimedia Networks (WowMoM), 2006, Buffalo, NY, USA.
- TPC member: Ramalingam Sridhar
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2.23. IEEE Int. Conf. on Acoustics, Speech and Signal Processing, May 2006, Toulouse, France.
- TPC member: Enrico Magli, Min Wu
- Tutorial speaker: Yun-Qing Shi (on "Steganography and Steganalysis")

2.24. WICON, 2006.
- TPC member: Jacky Guobin Shen

2.25. CHINACOM, 2006
- Sympoisum Chair: Qian Zhang
- TPC member: Jacky Guobin Shen

2.26. IEEE Int. Symposum on Multimedia (ISM), Dec 11-13, 2006, San Diego, CA, USA.
- TPC Co-Chair and Special Track Co-Chair: Qian Zhang
- TPC member: Jacky Guobin Shen
- Member of the Best Paper Award Committee: Wen-Liang Hwang
- Special Session Organizer (Towards next generation peer-to-peer services): Jacky Shen

2.27. IEEE Consumer Communications and Networking Conference (CCNC), 2007.
- Special Session Co-Chair: Qian Zhang

2.28. IEEE/NIH Workshop on Life Science Systems and Applications, July 13-14, 2006, Bethesda, Maryland
- TPC Co-Chair: Jie Chen, Wai-Chi Fang,

2.29. International Conference on Innovative Computing, Control and Information Processing, Aug. 10-11, 2006, Beijing, China.
- General Co-Chair: Wai-Chi Fang
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2.30. Conference on Image and Video Retrieval 2006, Tempe, AZ
- Program Chair, Milind R. Naphade

2.31. Picture Coding Symposium (PCS), Beijing, China, April 24-26, 2006
- General Co-Chair: Joern Ostermann
- Program Committee: C.-C. Jay Kuo, Oscar C. Au

2.32. International Workshop on Digital Watermarking, Nov. 2006, Korea.
- Technical Co-Chair: Yun-Qing Shi
- TPC Member: Min Wu

2.33. Audio Video Coding Workgroup, China
- Convener: Gao Wen
- Contributor: Gao Wen, Yiqiang Chen, Oscar C. Au

2.34. 6th Int. Caribbean Conf. on Devices, Circuits and Systems, Apr. 2006, Cozumel, Mexico.
- Plenary Speaker: Bing Sheu (on "High-Tech Engineering Success in 21st Century")

2.35. Sun Yat-sen University, Guangzhou, China.
- Distinguished lecturer: Alex Kot

2.36. MediaTek Workshop, Jan 2006, Hsin-Chu City, Taiwan.
- Invited speaker: Bing Sheu (on "21st Century Success Philosophy, Search and Research")
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2.37. International Workshop on Multimedia Systems and Networking (WMSN'06)
  - Program Co-Chair: Qian Zhang

2.38. IEEE Wireless Communication and Networking Conference 2007, 11 – 15 March 2007
  - TPC member: Jacky Guobin Shen

2.39. IEEE Western NY Image Processing Workshop, Rochester NY, Sept. 2006
  - Organizing Committee: Alexander Loui,

2.40. European Conf. on Computer Vision (ECCV), Graz, Austria, May 2006
  - Member, Technical Program Committee: Alexander Loui,

2.41. IEEE Conf. on Computer Vision & Pattern Recognition (CVPR), New York NY, June 2006,
  - Member, Technical Program Committee, Alexander Loui,

2.42. ACM International Multimedia Modeling Conference (MMM), Singapore, Jan 2007.
  - Member, TPC: Alexander Loui

2.43. IEEE International Symposium on Signal Processing and Information Technology (ISSPIT)
    Vancouver, Canada, August 27-30, 2006
  - Technical Program Committee: C.-C. Jay Kuo
  - TPC member: Oscar Au

2.44. IEEE Pacific-Rim Symposium on Image and Video Technology, (PSIVT'06).
  - General Chair: Wen-Nung Lie
  - TPC member: Oscar Au

2.45. SPIE Conf. on Security, Steganography and Watermarking of Multimedia Contents, Jan 2007, San Jose, CA, USA.
  - TPC member: Oscar Au, Min Wu

2.46. 2006 International Conference on Innovative Computing, Information and Control (ICICIC-06).
  - TPC member: Oscar Au

2.47. IEEE/NLM Life Science Systems and Applications Workshop (July 2006):
  - Special Session Chair,Pau-Choo (Julia) Chung

2.48. 2006 IEEE CVPR Workshop on Statistical Learning Applications in Multimedia
  - Program Chair Milind R. Naphade

2.49. International Computer Symposium, Taipei, Taiwan, Dec. 4-6, 2006.
  - Program Committee: C.-C. Jay Kuo

2.50. International Workshop on Digital Watermarking (IWDW), Jeju Island, Korea, November 8-10, 2006.**
  - Technical Program Committee: C.-C. Jay Kuo, Yun Q. Shi, Min Wu

2.51. Conference on Multimedia Systems and Applications IX, Part of SPIE's International Symposium on Optics East, Boston, MA, October 1-4, 2006.
  - Program Committee: C.-C. Jay Kuo, Min Wu

2.52. The 14th European Signal Processing Conference (EUSIPCO), Florence, Italy, September 4-8, 2006.
  - Technical Committee: C.-C. Jay Kuo

2.53. The 15th International Packet Video Workshop (PV2006), Hangzhou, China, April 20-21, 2006.
  - Technical Committee: C.-C. Jay Kuo, Oscar C. Au

2.54. Conference on Wireless Sensing and Processing in SPIE Defense and Security Symposium, Orlando, FL., April 17-18, 2006.
  - Program Committee C.-C. Jay Kuo

2.55. Conference on Visual Communications and Image Processing as Part of the IS&T/SPIE International Symposium on Electronic Imaging, San Jose, CA., January 15-19, 2006.
- Program Committee: C.-C. Jay Kuo

2.56. International Conference on Signal Processing (ICSP), Guilin, China, November 17, 2006
- Keynote Speech: C.-C. Jay Kuo, "Ubiquitous multimedia computing and communication: challenges and future trends,"

2.57. Western New York Image Processing Workshop, September 29, 2006
- Plenary Speech: C.-C. Jay Kuo, "Ubiquitous multimedia computing and communication: challenges and future trends,"

2.58. The Tenth IEEE International EDOC Conference (EDOC 2006), Oct 2006, Hong Kong.
- Finance Chair: Howard Leung

2.59. The 19th IEEE International Symposium on Computer-Based Medical Systems, August 2006
- Publicity Chair Pau-Choo (Julia) Chung

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2.60 MobiMedia 2006
- TPC member: Qian Zhang

2.61 1st ACM Workshop on Mobile Video, Sept. 2006, Augsbury, Germany
- TPC member: Oscar C. Au

2.66 Pacific-rim Conf. on Multimedia (PCM 2006), Nov. 2006, Hangzhou, China.
- Session Chair: Oscar C. Au

3. Activities in On-going or Future Conferences/Workshops (May'07 – future)

3.1. ICME 2008
- Proposed Program Chair: Joern Ostermann and Milind R. Naphade

3.2. ICME 2009
- Proposed Program Chair: Ching-Yung Lin

3.3. IEEE Region 10 Conference (TENCON), Oct. 30- Nov. 2007, Taipei
- Program Chair: Jhing-Fa Wang
- TPC Chair: Bin-Da Liu
- Track Chair: Jar-Ferr Yang
- TPC Member: Chua-Chin Wang, Oscar C. Au
- Tutorial Chair: Pau-Choo (Julia) Chung
- International Advisory Committee Member: Bin-Da Liu
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3.11 IEEE CVPR Workshop on Statistical Learning Applications in Multimedia 2007
- Program Chair, Milind R. Naphade

3.12. International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP 07), Nov. 26-28, 2007
- Member, Program Committee, Ming-Ting Sun

3.13. IEEE 2007 Workshop on Signal Processing Systems (SiPS2007), Shanghai, October 17-19, 2007
- International Advisor Committee Member: Ming-Ting Sun

3.14. Pacific Rim Conference on Multimedia (PCM 2007), Hong Kong, Dec. 11-14, 2007
- General Chair: Oscar C. Au
- Program Committee Co-Chair: Ming-Ting Sun

- Technical Program: Ming-Ting Sun
- Finance Chair: Howard Leung

3.15. IEEE International Conference on Systems, Man, and Cybernetics (SMC, October 7-10, 2007, Montreal, Canada
- Program Committee Member, Bin-Da Liu

3.16. IEEE International Conference on Semantic Computing, **17-19 September 2007**
- Program Chair: Milind R. Naphade

3.17. International Workshop on Image Analysis for Multimedia Interactive Services, **Santorini, Greece, 6-7 Jun 2007**
- Workshop Program Chair: Milind R. Naphade

3.18. International Conference on Computer Communications and Networks, Aug. 13 - 16, 2007, Honolulu, Hawaii USA
- Track Chair of Pervasive Computing and Multimedia Networking: Jacky Shen

3.19. ISFMA Symposium on Wavelet Methods on Mathematical Analysis and Engineering, **Sun Yat-Sen University, China on Aug. 22-25, 2007**
- Invited Speaker: Wen-Liang Hwang

3.20. International Workshop on Digital Watermarking (IWDW07), Guangzhou, China, December 2007
- Co-Chair, Tech Program Committee, Yun Q. Shi

3.21. IEEE Int. Conf. on Image Processing (ICIP), San Antonio, TX, 2007
- Technical Program Committee: Enrico Magli, Min Wu, Oscar C. Au
- Tutorial, "Digital Image Forensics", Yun Q. Shi

3.22. 2006 Symposium on Digital Life technologies: Building a Safe, Secured and Sound (3S) Living Environment, **Tainan, Taiwan, June 2007**
- General Chair, Pau-Choo (Julia) Chung
- Advisory Committee Member: Pau-Choo (Julia) Chung

3.23 The 19th IPPR Conference on Computer Vision, Graphics and Image Processing
- Advisory Committee Member: Pau-Choo (Julia) Chung

3.24 SPIE Conf. on Security, Steganography and Watermarking of Multimedia Contents, 2008.
- TPC member: Oscar Au, Min Wu

3.25 ISCAS 2009, Taipei, Taiwan, May 24 - 27 2009
- Program Chair: Jhing-Fa Wang
- Technical Program Chair: Bin-Da Liu
- General Secretary: Jar-Ferr Kevin Yang
- Tutorial Chair: Pau-Choo Julia Chung

3.26 Picture Coding Symposium, Nov. 2007, Lisbon, Portugal
- TPC member: Oscar C. Au

3.27 International Conference on Signal Processing and Multimedia Applications (SIGMAP), July 2007, Barcelona, Spain.
- TPC member: Oscar C. Au

3.28 IEEE Workshop on Signal Processing Systems (SiPS), Oct. 2007, Shanghai, China.
- TPC member: Oscar C. Au

3.29 IEEE/IET International Conference on Audio, Language and Image Processing (ICALIP), July 2008, Shanghai, China.

- International TPC Co-Chair: Oscar C. Au
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3.30 European Conference on Circuit Theory and Design (ECCTD), Sevilla, Spain
- TPC member: Oscar C. Au

3.31 Hong Kong Int. Computer Conference, Sept. 2007, Hong Kong.
- TPC member: Oscar C. Au

3.32 Int. Conf. on Communications, Circuits and Systems, July 2007, Fukuoka, Japan.
- TPC member: Oscar C. Au

4. Activities in Editorial Services:

4.1. IEEE Trans. on Multimedia
- Steering Committee: Yu Hen Hu, Oscar Au, Jar-Ferr Yang
- Associate Editor: Pascal Frossard, Qian Zhang, Alexander Loui, Ching-Yung Lin, Lap-Pui Chau
- Reviewer: Jacky Guobin Shen, Jiwu Huang, Gwo Giun Lee, Jacky Shen, Howard Leung, Oscar C. Au

4.2. IEEE Circuits and Devices Magazine
- Technology Editor Bing Sheu
- Associate Editor: Jar-Ferr Kevin Yang,

4.3. IEEE Trans. on Circuits and Systems for Video Technology:
- Editor-in-Chief: Chang Wen Chen
- Associate Editor: Oscar C. Au, Pascal Frossard, Jar-Ferr Yang
- Reviewer: Jar-Ferr Kevin Yang, Oscar C. Au, Jiwu Huang, Jacky Guobin Shen, Enrico Magli, Wen-Liang Hwang, Howard Leung, Min Wu

4.4. IEEE Transactions on Circuits and Systems-I
- Deputy Editor in Chief: Chin-Teng Lin (2006-2007)
- Reviewer: Jar-Ferr Kevin Yang, Chua-Chin Wang

4.5. IEEE Transactions on Circuits and Systems-II:
- Reviewer: Jar-Ferr Kevin Yang, Jiwu Huang, Alexander Loui, Chua-Chin Wang

4.6. IEEE Trans. on Image Processing
- Reviewer: Jacky Guobin Shen, Oscar C. Au, Enrico Magli, Wen-Liang Hwang

4.7. Proceedings of IEEE
- Associate Editor: Bing Sheu

4.8. IEEE Interactive Magazine, Communication Society
- Editor: Ching-Yung Lin

4.9. IEEE Transactions on Very Large Scale Integration (VLSI) Systems:
- Associate Editor: Bin-Da Liu
- Reviewer: Chua-Chin Wang

4.10. EURASIP Journal of Applied Signal Processing:
- Associate Editor: C.-C. Jay Kuo, Jar-Ferr Kevin Yang,
- Reviewer: Jar-Ferr Kevin Yang, Oscar C. Au

4.11. EURASIP Journal on Applied Signal Processing Special Issue on Video Adaptation for Heterogeneous Environments, 2007.
- Co-Guest Editor: Chia-Wen Lin, Ming-Ting Sun, Anthony Vetro, A Kot, YP Tan

4.12. IEEE Signal Processing Letters
  - Associate Editor: Min Wu
  - Reviewer: Jiwu Huang
  -
4.13. IEEE Transactions on Information Forensics and Security
  - Reviewer: Min Wu, Oscar C. Au

4.14. ACM Transactions on Multimedia Computing
  - Reviewer: Jacky Shen

4.15. Journal of Advances in Multimedia (Hindawi)
  - Editorial Board Member: C.-C. Jay Kuo
  - Associate Editor: Jacky Shen, Qian Zhang
  - Editor of Special Issue: Multimedia Networking: Jacky Shen
  - Editor of Special Issue: Next-generation P2P Services: Jacky Shen

4.16. Journal of Peer-to-Peer Networking and Applications (Springer)
  - Associate Editor: Jacky Shen, Qian Zhang

4.17. Journal of Visual Communication and Image Representation
  - Editor-in-Chief: C.-C. Jay Kuo
  - Editorial Board: Ching-Yung Lin
  - Reviewer: Jacky Guobin Shen, Oscar C. Au

4.18. Multidimensional Systems and Signal Processing, Springer
  - Associate Editor: Yun-Qing Shi

4.19. International Journal of Image and Graphics
  - Editorial Board member: Yun-Qing Shi

4.20. IET Signal Processing
  - Editorial Board Member: Jar-Ferr Kevin Yang

4.21. Journal of Information Science and Engineering
  - Editor: C.-C. Jay Kuo, Pau-Choo (Julia) Chung, Oscar C. Au

4.22. Signal Processing
  - Reviewer: Jar-Ferr Kevin Yang

4.23. IEEE Transactions on Information Theory
  - Reviewer: Wen-Liang Hwang

4.24. Journal of the Chinese Institute of Engineers
  - Reviewer: Jar-Ferr Kevin Yang

4.25. Journal of the Chinese Institute of Electrical Engineering
  - Reviewer: Jar-Ferr Kevin Yang

4.26. EURASIP Journal on Applied Signal Processing, Special Issue on "Video analysis and coding for Robust Transmission".
  - Guest Editor: Adriana Dumitras

4.27. EURASIP Journal on Applied Signal Processing, Special Issue on "Visual Sensor Network"
  - Guest Editor: Ching-Yung Lin

4.28. IEEE Transactions on Wireless Communications
  Associate Editor: Qian Zhang

4.29. Elsevier Computer Communications
  Associate Editor: Qian Zhang

4.30. Elsevier Computer Networks
  Associate Editor: Qian Zhang

4.31. IEEE Transactions on Vehicular Technology
  Associate Editor: Qian Zhang

4.32. Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology, special issue on Wireless Sensor Networks, 2007.
  Guest Editor: Qian Zhang

4.33. IEEE Communications Magazine, Feature Topic on Advances in Wireless VoIP, 2007.
  Guest Editor: Qian Zhang

4.34. Elsevier Computer Networks, Special Issue on Wireless Multimedia Sensor Networks, 2007.
  Guest Editor: Qian Zhang

4.35. ACM/Springer Journal of Mobile Networks and Applications (MONET), Special Issue on Wireless Mesh Networks, 2007.
  Guest Editor: Qian Zhang

4.36. IEEE Wireless Communication Magazine, Special Issue on Wireless Sensor Networking, 2006-2007.
  Guest Editor: Qian Zhang

4.37. Journal of Advances in Multimedia, Special issue on Collaboration and Optimization for Multimedia Communications, 2007.
  Guest Editor: Qian Zhang

4.38. Special issue on wireless multimedia/video in IEEE Wireless Communication Magazine, Aug. 2005.
  Guest Editor: Qian Zhang

4.39. IEEE Signal Processing Magazine
  - Editor-in-Chief: Shih-Fu Chang
  - Area Editors: Adriana Dumitras (Columns and Forums), Min Wu (e-Newsletter)
  - Guest Editor for "Life Science Column": Jie Chen.

4.40. IEEE Journal on Selected Areas in Communications (JSAC), Special Issue on "Cross Layer Optimized Wireless Multimedia Communication", 2006.
  - Guest Editor: Qian Zhang

4.41. NCTU Press "Views on Modern Education in 21st Century", Apr. 2006.
  - Co-Editor: Bing Sheu

4.42. IEEE Systems Journal
  - Member of Advisory Board: Wai-Chi Fang

4.43. IEEE Transactions on Fuzzy Systems:
  - Associate Editor, Bin-Da Liu

4.44. IEEE Transactions on Biomedical Circuits and Systems
  - Associate Editor, Bin-Da Liu

4.45. IEEE Multimedia Magazine
  - Member of editorial board, Yu Hen Hu

4.46. Journal of Wavelet Theory and Applications
  - Associate Editor: Wen-Liang Hwang

4.47. International Journal of Wavelets, Multiresolution and Information Processing.
  - Associate Editor: Wen-Liang Hwang

4.48. EURASIP Journal of Embedded System,
   - Reviewer: Gwo Giun Lee

4.49. IEEE Trans. on Broadcasting
   - Associate Editor: Lap-Pui Chau
   - Reviewer: Jiwu Huang

4.50. SPIE Journal of Electronic Imaging ,
   - Associate Editor, Alexander Loui

4.51. EURASIP Journal on Image and Video Processing, Special Issue on Multimedia
   - Guest Editor, Milind R. Naphade

4.52. LNCS Transactions on Data Hiding and Multimedia Security
   - Founding Editor-in-Chief: Yun Q. Shi
   - Editor: C.-C. Jay Kuo, Jiwu Huang

4.53. Intelligent Multimedia Hiding and Processing, Feb. 2006, Springer-Verlag.
   - Co-Editor: Wai-Chi Fang

4.54. IEEE Trans on Mobile Computing,
   - Reviewer: Jacky Shen

4.55. IEEE Trans on Knowledge and Data Engineering
   - Reviewer: Jacky Shen

4.56. IEEE Wireless Communications Magazine
   - Reviewer: Jacky Shen

4.57. IEEE Communications Magazine
   - Reviewer: Jacky Shen

4.58. Journal of Advances in Multimedia
   - Reviewer: Jacky Shen

4.59. ACM Transactions on Multimedia Computing
   - Reviewer: Jacky Shen

4.60. Communications and Applications
   - Reviewer: Jacky Shen

4.61. Multidimensional Systems and Signal Processing
   - Associate Editor: Yun Q. Shi

4.62. EURASIP Journal on Information Security
   - Associate Editor: Enrico Magli
   - Guest Editor for Special Issue "The Interplay between Compression and Security for Image and Video Communication and Adaptation over Networks", Enrico Magli

4.63. Journal of High Speed Networks
   - Associate Editor: Pau-Choo (Julia) Chung

4.64. Microelectronics Journal
   - Reviewer: Chua-Chin Wang,

4.65. VLSI Design,
   - Associate Editor: Chua-Chin Wang,

4.66. Optical Engineering

- Reviewer: Oscar C. Au

4.67. IEEE Communications Letters
- Reviewer: Oscar C. Au

4.68. Journal on Circuts, Systems and Signal Processing
- Reviewer: Oscar C. Au

4.69. Journal on Hong Kong Institute of Engineers
- Reviewer: Oscar C. Au

4.70. IEE Proc. Vision, Image & Signal Processing
- Reviewer: Oscar C. Au

4.71. Imaging Science Journal
- Reviewer: Oscar C. Au

4.72. Journal of Electronic Imaging
- Reviewer: Oscar C. Au

4.73. Signal Processing
- Reviewer: Oscar C. Au

4.74. Journal of Multimedia
- Associate Editor: Oscar C. Au

4.75. Journal of Franklin Institute
- Member of Editorial Board: Oscar C. Au

5. IEEE Distinguished Lecturer:
- IEEE Circuits and System Society: Pau-Choo (Julia) Chung (2006-2007)
- IEEE Signal Processing Society: C.-C. Jay Kuo (2006)

6. IEEE Services:

6.1.　Members, Board of Governor of CAS Society:

　　　Pao-Chuo Chung (2007 - 2009), Wai-Chi Fang (2007 - 2009), Chin-Teng Lin (2005-2008)

6.2.　VP-Region 10, IEEE CASS: Bin-Da Liu

6.3.　Member, IEEE Systems Council AdCom: Wai Chi Fang

6.4.　Chairman, Liaison and Transnational Committee, IEEE Systems Council: Wai Chi Fang

6.5.　Chapters Committee, IEEE Signal Processing Society (2006-2008): Jar-Ferr Kevin Yang

6.6.　Treasurer, IEEE Tainan Section (2003 – 2008): Jar-Ferr Kevin Yang

6.7.　Treasurer, IEEE Rochester Section, 2007, Alexander Loui,

6.8.　Member of Steering Committee, IEEE Asian Pacific Conference on Circuits and Systems (May 2005-May 2008): Pau-Choo (Julia) Chung

6.9.　Chairman, Steering Committee for ICME, CAS Society: Pascal Frossard, Ching-Yung Lin, Oscar C. Au

6.10.　Member, Steering Committee for IEEE Trans. on Multimedia, CAS Society: Yu Hen Hu, Oscar C. Au, Jar-Ferr Kevin Yang

6.11.　Chairman, Technical Committee on Nanoelectronics & Gigascale Systems, CAS Society: Wai-Chi Fang

6.12.　Chairman, Technical Committee of Life Science Applications and Systems Technical committee, CAS Society: Jie Chen

6.13. Vice-Chair and Aware Sub-Committee Chair, Technical Committee of Multimedia Communication, IEEE Communications Society: Qian Zhang.

6.14. Chairman, Technical Committee on Neural Systems and Applications, CAS: Chin-Teng Lin

6.15. IEEE SP, CES Taipei Chapter Chairman: Tihao Chiang

6.16. Distinguished lecturers: Multimedia Semantics at DELOS-MUSCLE in San Vincenzo, Italy: Milind R. Naphade

6.17. Distinguished lecturers: Multimedia Semantics at the ACEMEDIA-KSPACE in Chalkidiki, Greece: Milind R. Naphade

6.18. Tainan Section (2006-2007) , Advisor, CAS Student Chapter: Pau-Choo (Julia) Chung

6.19. IEEE Computational Intelligence Society, Tainan Chapter Chair: Pau-Choo (Julia) Chung (2005-2006)

7. Award and Recognition

7.1. Alexander Loui, Fellow of IEEE for contributions to digital image content management systems, 2007

7.2. Jar-Ferr Yang, Fellow of IEEE for contributions to Fast Algorithms and Efficient Realization of Video and Audio Coding

7.3. IEEE Signal Processing Society 2005 Best Paper Award (awarded in May 2006): W. Trappe, M. Wu, Z. Wang, and K.J.R. Liu: "Anti-collusion Fingerprinting for Multimedia", IEEE Trans. on Signal Processing, vol. 51, no. 4, pp.1069-1087, April 2003.

7.4. Best Paper Award from APCCAS 2006: Bin-Da Liu

7.5. IEEE Circuits and Systems Society, 2006 Outstanding Young Author Award, C. H. Chen, B. D. Liu, and J. F. Yang "Condensed Recursive Structures for Computing Multidimensional DCT/IDCT with Arbitrary Length", *IEEE Trans. on Circuits and Systems, Part I,* vol. 52, no. 9, pp.1819-1831, September 2005.

7.6. Best Paper Award: Yongjin Cho, Do-Kyoung Kwon, C.-C. Jay Kuo, Renxiang Huang, Claudio Lima, Jim D. Black and James J. Pan, "Video streaming over 3G networks with GOP-based priority scheduling,"

7.7. Best Student Paper Award, Man-On Pun, Michele Morelli and C.-C. Jay Kuo, "Iterative equalization and decoding for unsynchronized OFDMA uplink transmissions," IEEE Vehicular Technology Conference (VTC 2006-F), Montreal, Canada, September 25-28, 2006.

Submitted by MSA TC on 18 May, 2007
Prepared by Dr. Jar-Ferr Kevin Yang with inputs from TC members