

PROFESSIONAL ACTIVITIES

(1) MAJOR PROFESSIONAL LEADERSHIP POSITIONS:

1. **Honorary Co-Chair**, 10th International Conference on Ubi-Media Computing and Workshops (Umedia), Pattaya, Thailand, August 1 - 4, 2017.
2. **General Co-Chair**, 9th International Conference on Ubi-Media Computing (Umedia), Moscow, Russia, August 15 - 17, 2016.
3. **General Chair**, 2015 IEEE Workshop on Signal Processing Systems (SiPS), Hangzhou, China, October 14 - 16, 2015.
4. **General Co-Chair**, 8th International Conference on Ubi-Media Computing (Umedia), Colombo, Sri Lanka, August 24 – 25, 2015.
5. **General Co-Chair**, 7th International Conference on Ubi-Media Computing (Umedia), Ulaanbaatar, Mongolia, July 12 – 14, 2014.
6. **General Co-Chair**, 2nd International Workshop on Video Coding and Video Processing (VCVP), Shenzhen, China, January 21 – 23, 2014.
7. **Technical Program Co-Chair**, 2013 IEEE Visual Communications and Image Processing Conference (VCIP), Kuching, Sarawak, Malaysia, November 17 - 20, 2013.
8. **General Chair**, 2013 IEEE International Conference on Multimedia and Expo (ICME), San Jose, California, USA, July 15 – 19, 2013. (ICME is the flagship conference on multimedia research for the IEEE and is sponsored by four of the largest IEEE societies – Computer, Communications, Signal Processing, and Circuits and Systems.)
9. **Technical Program Co-Chair**, 2010 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), Singapore, December 14 – 17, 2010.
10. **Technical Program Co-Chair**, 2010 IEEE Asia Pacific Conference on Circuits and Systems (APCCAS), Kuala Lumpur, Malaysia, December 6 – 9, 2010.
11. **General Co-Chair**, 1st International Workshop on Video Coding and Video Processing (VCVP), Shenzhen, China, November 26 - 28, 2008.
12. **Technical Committee Chair**, IEEE Circuits and Systems Society Circuits and Systems for Communications Technical Committee, May 2006 – May 2008. (Technical Committee Chair-Elect during May 2005 – May 2006).
13. **Technical Program Co-Chair**, 2007 IEEE International Symposium on Circuits and Systems (ISCAS), New Orleans, Louisiana, U.S.A, May 27 – 30, 2007. (ISCAS is the flagship conference of the IEEE Circuits and Systems Society, ISCAS 2007 has 1,826 papers submitted and an attendance of about 1,300.)
14. **Program Co-Chair**, 2007 IEEE Workshop on Signal Processing Systems (SiPS), Shanghai, China, October 17 – 19, 2007.
15. **Track Co-Chair (Track on Circuits and Systems for Communications), Technical Program Committee**, 2006 IEEE International Symposium on Circuits and Systems (ISCAS), Island of Kos, Greece, May 21 – 24, 2006.
16. **Track Co-Chair (Track on Circuits and Systems for Communications), Technical Program Committee**, 2005 IEEE International Symposium on Circuits and Systems (ISCAS), Kobe, Japan, May 23 – 26, 2005.

17. **Track Co-Chair (Track on Circuits and Systems for Communications), Technical Program Committee**, 2004 IEEE International Symposium on Circuits and Systems (ISCAS), Vancouver, Canada, May 23 - 26, 2004.
18. **Program Chair**, Third International Workshop on Digital and Computational Video (DCV), Clearwater Beach, Florida, USA, November 14-15, 2002.
19. **Program Co-Chair**, 2000 IEEE Workshop on Signal Processing Systems (SiPS), Lafayette, Louisiana, USA, October 11-13, 2000.
20. **General Chair**, IEEE Hot Chips Symposium VII, Stanford University, Stanford, California, USA, August 13-15, 1995. (Hot Chips VII has a total attendance of about 1,000 and reported by media such as World Journal, EE Times, and San Jose Mercury News.)
21. **Chair**, IEEE Computer Society Technical Committee on Microprocessors and Microcomputers, 1993 - 1995.
22. **Vice Chair**, IEEE Hot Chips Symposium VI, Stanford University, Stanford, California, USA, August 14-16, 1994.

(2) EDITORSHIPS IN MAJOR JOURNALS:

23. **Associate Editor**, Human-centric Computing and Information Sciences, Springer, 2014 – present.
24. **Associate Editor**, Multidimensional Systems and Signal Processing: An International Journal (MSSP), Springer, 2012 – present.
25. **Advisory Board Member**, International Journal of Computational Science and Engineering, Inderscience Publishers, July 2016 – present.
26. **Guest Editor**, IEEE Journal of Selected Topics in Signal Processing (Special Issue on Video Coding: HEVC and Beyond), Vol. 7 No. 6, December 2013.
27. **Guest Co-Editor**, Journal of Signal Processing Systems for Signal, Image, and Video Technology (Special Issue: SoC for Multimedia Networking), Vol. 60, No. 3, Springer, September 2010. (Online version published May 2009).
28. **Editor of the Editorial Board**, Journal of Internet Technology, 2004 – 2009, 2011 - present.
29. **Member of the Editorial Board**, International Journal of Internet Protocol Technology, Inderscience Publishers, 2005 – 2008.
30. **Guest Co-Editor**, Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology (Special Issue on Digital and Computational video), Vol. 42, No. 1, Springer, January 2006.
31. **Associate Editor** (Signal Processing and Multimedia), IEEE Transactions on Circuits and Systems – I: Fundamental Theory and Applications, January 2002 – December 2003.

(3) DISTINGUISHED LECTURER POSITIONS:

32. **APSIPA Distinguished Lecturer**, January 2014 – December 2015.
33. **IEEE Distinguished Lecturer** (IEEE Circuits and Systems Society), January 2007 – December 2008.
34. **IEEE Distinguished Lecturer** (IEEE Circuits and Systems Society), January 2002 – December 2003.

(4) POSITIONS IN CONFERENCE STEERING, ORGANIZING, AND PROGRAM COMMITTEES:

35. **International Advisory Committee Member**, The 13th IEEE Conference on Industrial Electronics and Applications (ICIEA), Wuhan, China, May 31 – June 2, 2018.
36. **International Advisory Committee Member**, The 12th IEEE Conference on Industrial Electronics and Applications (ICIEA), Siem Reap, Cambodia, June 18 – 20, 2017.
37. **Exhibit Chair and Demo Chair**, The 42nd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), New Orleans, Louisiana, March 5 – 9, 2017.
38. **International Advisory Committee Member**, The 11th IEEE Conference on Industrial Electronics and Applications (ICIEA), Hefei, China, June 5 - 7, 2016.
39. **Technical Committee Representative to the ICME Steering Committee** - representative of the IEEE Circuits and Systems Society Multimedia Systems and Applications Technical Committee to the IEEE International Conference on Multimedia and Expo (ICME) Steering Committee, term: January 1, 2014 – December 31, 2015.
40. **International Advisory Committee Member**, The 10th IEEE Conference on Industrial Electronics and Applications (ICIEA), Auckland, New Zealand, June 15 - 17, 2015.
41. **America Liaison**, 2014 IEEE International Workshop on Multimedia Signal Processing (MMSP), Jakarta, Indonesia, September 22 – 24, 2014.
42. **International Advisory Committee Member**, The 9th IEEE Conference on Industrial Electronics and Applications (ICIEA), Hangzhou, China, June 9 – 11, 2014.
43. **International Advisory Committee Member**, The 9th International Conference on Information, Communications and Signal Processing (ICICS), Tainan, Taiwan, December 10 – 13, 2013.
44. **International Advisory Committee Member**, The 8th IEEE Conference on Industrial Electronics and Applications (ICIEA), Melbourne, Australia, June 19 – 21, 2013.
45. **International Advisory Committee Member**, The 7th IEEE Conference on Industrial Electronics and Applications (ICIEA), Singapore, July 18 - 20, 2012.
46. **Best Paper Award Committee Member**, The 7th IEEE Conference on Industrial Electronics and Applications (ICIEA), Singapore, July 18 - 20, 2012.
47. **Tutorial Co-Chair**, 2012 IEEE International Symposium on Circuits and Systems (ISCAS), Seoul, South Korea, May 20 – 23, 2012.
48. **Technical Program Committee Member**, IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, Nevada, USA, January 12 - 15, 2012.
49. **Technical Program Committee Member**, 2011 International Conference on Advanced Intelligence and Awareness Internet (AIAI), Shenzhen, China, October 28 -30, 2011.
50. **Technical Program Committee Member**, IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, Nevada, USA, January 9 - 12, 2011.
51. **Publicity Co-Chair**, 2010 IEEE International Symposium on Multimedia (ISM), Taichung, Taiwan, December 13 – 15, 2010.
52. **Technical Program Committee Member**, 2010 IEEE Workshop on Signal Processing Systems (SiPS), San Francisco Bay Area, California, USA, October 6 – 8, 2010.

53. **Technical Program Committee Member**, 2010 IEEE International Conference on Multimedia and Expo (ICME), Singapore, July 19 – 23, 2010.
54. **Technical Program Committee Member**, SPIE Visual Communications and Image Processing 2010 (VCIP), Huang Shan, China, July 11 – 14, 2010.
55. **International Advisory Committee Member**, The 5th IEEE Conference on Industrial Electronics and Applications (ICIEA), Taichung, Taiwan, June 15 – 17, 2010.
56. **Technical Program Committee Member**, IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, Nevada, USA, January 9 - 13, 2010.
57. **Organizing Committee Member (Registration)**, 2009 IEEE International Conference on Image Processing (ICIP), Cairo, Egypt, November 7 – 11, 2009.
58. **Technical Program Committee Member**, 2009 IEEE Workshop on Signal Processing Systems (SiPS), Tampere, Finland, October 7 - 9, 2009.
59. **Technical Program Committee Member**, IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, Nevada, USA, January 10 - 14, 2009.
60. **Steering Committee Member**, IEEE International Symposium on Circuits and Systems (ISCAS), 2008.
61. **Technical Program Committee Member**, 1st International Workshop on Video Coding and Video Processing (VCVP), Shenzhen, China, November 26 - 28, 2008.
62. **Technical Program Committee Member**, 2008 IEEE Workshop on Signal Processing Systems (SiPS), Washington, D.C., USA, October 8 - 10, 2008.
63. **Technical Program Committee Member**, IEEE International Conference on Circuits and Systems for Communications (ICCSC), Shanghai, China, May 26 - 28, 2008.
64. **Review Committee Member**, 2008 IEEE International Symposium on Circuits and Systems (ISCAS), Seattle, Washington, USA, May 18 - 21, 2008.
65. **Technical Program Committee Member**, IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, Nevada, USA, January 9 - 13, 2008.
66. **Technical Program Committee Member**, Multimedia Compression and Optimization Track, Pacific-Rim Conference on Multimedia (PCM), Hong Kong, China, December 11 – 14, 2007.
67. **Technical Program Committee Member**, IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, Nevada, USA, January 10 - 14, 2007.
68. **Technical Program Committee Member**, 2006 IEEE Workshop on Signal Processing Systems (SiPS), Banff, Alberta, Canada, October 2 – 4, 2006.
69. **Technical Program Committee Member and Review Committee Member**, 2006 IEEE International Symposium on Circuits and Systems (ISCAS), Island of Kos, Greece, May 21 – 24, 2006.
70. **Program Committee Member**, Picture Coding Symposium 2006 (PCS), Beijing, China, April 24 – 26, 2006.
71. **Technical Program Committee Member**, IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, Nevada, USA, January 9 - 11, 2006.

72. **Technical Program Committee Member**, 2005 International Symposium on Intelligent Signal Processing and Communications Systems, Hong Kong, China, December 13 – 16, 2005.
73. **International Program Committee Member**, Fifth International Conference on Information, Communications and Signal Processing, Bangkok, Thailand, December 6 – 9, 2005.
74. **Technical Program Committee Member**, 2005 IEEE Workshop on Signal Processing Systems (SiPS), Athens, Greece, November 2 – 4, 2005.
75. **Technical Program Committee Member and Review Committee Member**, 2005 IEEE International Symposium on Circuits and Systems (ISCAS), Kobe, Japan, May 23 - 26, 2005.
76. **Technical Program Committee Member**, 2004 IEEE Workshop on Signal Processing Systems (SiPS), Austin, Texas, U.S.A, October 13 – 15, 2004.
77. **Technical Program Committee Member and Review Committee Member**, 2004 IEEE International Symposium on Circuits and Systems (ISCAS), Vancouver, Canada, May 23 - 26, 2004.
78. **Program Committee Member**, 2003 IEEE Workshop on Signal Processing Systems (SiPS), Seoul, Korea, August 27 - 29, 2003.
79. **Review Committee Member**, 2003 IEEE International Symposium on Circuits and Systems (ISCAS), Bangkok, Thailand, May 25 - 28, 2003.
80. **Publication Co-Chair**, Workshop and Exhibition on MPEG-4, San Jose, California, USA, June 25 - 27, 2002.
81. **Technical Program Committee Member**, 2002 IEEE International Symposium on Circuits and Systems (ISCAS), Scottsdale, Arizona, USA, May 26-29, 2002.
82. **International Program Committee Member**, Third International Conference on Information, Communications and Signal Processing, Singapore, October 15 – 18, 2001.
83. **Program Committee Member**, 2001 IEEE Workshop on Signal Processing Systems (SiPS), Antwerp, Belgium, September 26-28, 2001.
84. **Publication Co-Chair**, Workshop and Exhibition on MPEG-4, San Jose, California, USA, June 18 – 20, 2001.
85. **Technical Program Committee Member**, 2001 IEEE International Symposium on Circuits and Systems (ISCAS), Sydney, Australia, May 6-9, 2001.
86. **Chair, Student Paper Contest Panel**, 2000 IEEE Workshop on Signal Processing Systems (SiPS), Lafayette, Louisiana, USA, October 11-13, 2000.
87. **Technical Program Committee Member**, 2000 IEEE International Symposium on Circuits and Systems (ISCAS), Geneva, Switzerland, May 28-31, 2000.
88. **Technical Program Committee Member**, 1999 IEEE International Symposium on Circuits and Systems (ISCAS), Orlando, Florida, USA, May 30 – June 2, 1999.
89. **Program Committee Member**, 8th Great Lakes Symposium on VLSI, Lafayette, Louisiana, USA, February 19-21, 1998.
90. **Member (at large)**, Organizing Committee, IEEE Hot Chips Symposium IX, Stanford University, Stanford, California, USA, August 24-26, 1997.

91. **Member (at large)**, Organizing Committee, IEEE Hot Chips Symposium VIII, Stanford University, Stanford, California, USA, August 18-20, 1996.
92. **Technical Program Committee Member**, 37th Midwest Symposium on Circuits and Systems, Lafayette, Louisiana, USA, August 3 -5, 1994.
93. **Publication Chair**, IEEE Hot Chips Symposium V, Stanford University, Stanford, California, USA, August 8-10, 1993.
94. **Digest Chair**, IEEE Hot Interconnects Symposium, Stanford University, Stanford, California, USA, August 5-7, 1993.
95. **Publication Chair**, IEEE Hot Chips Symposium IV, Stanford University, Stanford, California, USA, August 9-11, 1992.
96. **Publication Chair**, IEEE Hot Chips Symposium III, Stanford University, Stanford, California, USA, August 26-27, 1991.
97. **Registration Chair**, IEEE Hot Chips Symposium II, Santa Clara University, Santa Clara, California, USA, August 20-21, 1990.

(5) MEMBERSHIP POSITIONS IN SOCIETY TECHNICAL COMMITTEES AND BOARDS:

98. **Honorable Member**, IEEE Circuits and Systems Society Technical Committee on Visual Signal Processing and Communications, 2016 - present.
99. **Member**, APSIPA Membership Board, 2014 – present.
100. **Member of Advisory Board**, IEEE Signal Processing Society Design and Implementation of Signal Processing Systems Technical Committee, 2011 – present.
101. **Committee Member**, IEEE Circuits and Systems Society Multimedia Systems and Applications Technical Committee, May 2008 – present.
102. **Emeritus Member**, IEEE Circuits and Systems Society VLSI Systems and Applications Technical Committee, 2005 – present.
103. **Committee Member**, IEEE Circuits and Systems Society Circuits and Systems for Communications Technical Committee, May 2004 – present.
104. **Committee Member**, IEEE Circuits and Systems Society Technical Committee on Visual Signal Processing and Communications, 1999 – 2016.
105. **Committee Member**, IEEE Signal Processing Society Design and Implementation of Signal Processing Systems Technical Committee, 2004 - 2010.
106. **Committee Member**, IEEE Circuits and Systems Society VLSI Systems and Applications Technical Committee, 1990 – 2005.
107. **Committee Member**, IEEE Computer Society Technical Committee on Microprocessors and Microcomputers, 1992 - 1997.

(6) OTHER PROFESSIONAL SERVICE (AND SOME COMMUNITY SERVICE):

108. **Member, External Advisory Board** for the Undergraduate Bachelor of Science in Computer Science Program, Department of Computer Science, San Jose State University, San Jose, California, USA, May 2017 – present.

- 109. External Reviewer** (assessing faculty tenure and promotion), School of Electronic, Information and Electrical Engineering, Shanghai Jiao Tong University, China, 2017.
- 110. External Examiner** (for doctoral student theses and dissertations), School of EEE, Nanyang Technological University, Singapore, 2011 and 2012.
- 111. External Referee** (assessing faculty tenure and promotion), School of Computer Engineering, Nanyang Technological University, Singapore, 2012.
- 112. External Referee** (assessing faculty tenure and promotion), School of EEE, Nanyang Technological University, Singapore, 2008, 2010, 2011.
- 113. External Referee** (evaluating faculty tenure and promotion), Department of Electrical and Computer Engineering, Lehigh University, Bethlehem, Pennsylvania, USA, 2010.
- 114. Member**, Integrated Undergraduate Engineering Advisory Committee, University of Hawaii at Hilo, Hilo, Hawaii, USA, September 2009 – 2010.
- 115. External Referee** (evaluating faculty promotion), Department of Electrical and Computer Engineering, University of Minnesota, Minneapolis, Minnesota, USA, 2009.
- 116. Judge**, The 15th Annual Outstanding Chinese Media Awards, North California Chinese Media Association (NCCMA), California, USA, 2009.
- 117. External Examiner**, Department of Computer Science & Engineering, the Hong Kong University of Science and Technology, Hong Kong, China, 2009.
- 118. External Assessor** (assessing faculty tenure), School of EEE, Nanyang Technological University, Singapore, 2007.
- 119. Member**, Board of Directors, Chinese Institute of Engineers (San Francisco Bay Area Chapter), USA, February 2004 – March 2006.
- 120.** Contributed to the 4th Industrial Technology Research Institute (ITRI) (Taiwan) Elite Researchers Program: “Meet the Best Minds,” May 2005.
- 121. External Examiner** (for graduate student theses and dissertations), School of EEE, Nanyang Technological University, Singapore, 2000 – 2001, 2004 - 2005.
- 122. External Examiner** (for graduate student theses and dissertations), Faculty of Engineering, Multimedia University, Malaysia, 2002 – 2003.
- 123. Member**, Singapore Digital TV Technical Committee, Singapore, March 1998 – August 1998.
- 124. Reviewers for proposals**
- Singapore Ministry of Education (MOE) Academic Research Fund (2008).
 - Board of Regents (State of Louisiana, U.S.) Support Fund R & D Program (2003).
 - King Fahd University of Petroleum and Minerals (Saudi Arabia) (1998).
 - National Science Foundation (U.S.) (1991).
- 125. Reviewers for journals**
- Journal of Ambient Intelligence and Humanized Computing (Springer) (2017).
 - Multidimensional Systems and Signal Processing: An International Journal (Springer) (2012, 2014, 2015, 2016).

- IET Image Processing (2009).
 - Signal Processing: Image Communication (Elsevier Science) (2006).
 - IEE Proceedings Vision, Image & Signal Processing (2005).
 - Journal of Visual Communication and Image Representation (Elsevier Science) (2005).
 - Computers & Electrical Engineering: An International Journal (2005).
 - IEEE Transactions on Circuits and Systems – I: Fundamental Theory and Applications (2002, 2003, 2004).
 - ETRI (Electronics and Telecommunications Research Institute, Korea) Journal (2003).
 - EURASIP Journal of Applied Signal Processing (2002, 2006, 2007).
 - IEEE Transactions on Circuits and Systems for Video Technology (2002, 2005, 2011).
 - IEEE Transactions on Multimedia (2000, 2004).
 - IEEE Transactions on Signal Processing (1998, 2000-01).
 - IEEE Micro Magazine (1995).
 - Journal of VLSI Signal Processing Systems (1993, 2001, 2003).
 - IEEE Computer Magazine (1991, 1992, 1993).
 - Journal of Circuits, Systems and Computers (1992).
 - Electronics Letters (1991).
- and more.

126. Reviewers for conferences

- IEEE Latin American Symposium on Circuits and Systems (2013).
 - IEEE International Conference on Image Processing (2009, 2012).
 - IEEE International Conference on Multimedia and Expo (2010).
 - IEEE Asia Pacific Conference on Circuits and Systems (1992, 2010).
 - Picture Coding Symposium (PCS) (2006).
 - Visual Communications and Image Processing (VCIP) (2005, 2010).
 - IEEE International Conference on Consumer Electronics (2006, 2010, 2011).
 - IEEE Workshop on Signal Processing Systems (2000, 2001, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2015).
 - IEEE International Symposium on Circuits and Systems (1991, 1992, 1993, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2008, 2010, 2014).
 - IEEE International Conference on Acoustics, Speech, and Signal Processing (2005, 2006, 2007, 2008, 2009, 2010).
 - Third International Workshop on Digital and Computational Video (2002).
 - IEEE Workshop and Exhibition on MPEG-4 (2001).
 - Third International Conference on Information, Communications and Signal Processing (2001).
 - 3rd International Conference on Computational Intelligence and Multimedia Applications (1999).
 - 8th Great Lakes Symposium on VLSI (1998).
 - 37th Midwest Symposium on Circuits and Systems (1994).
 - 7th International Parallel Processing Symposium (1993).
 - International Conference on Parallel Processing (1989, 1993).
 - International Conference on Parallel and Distributed Systems (1992).
 - Hawaii International Conference on System Sciences (1992).
- and more.

(7) MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS:

127. Fellow, The Institution of Engineering and Technology (IET), 2011 – present.

128. Fellow, The Institute of Electrical and Electronics Engineers, Inc. (IEEE), 2008 – present.

129. Member, Asia-Pacific Signal and Information Processing Association (APSIPA), 2013.

130. Senior Member, The Institute of Electrical and Electronics Engineers, Inc. (IEEE), 1999 – 2007.

131.Member, The Institute of Electrical and Electronics Engineers, Inc. (IEEE), 1990 - 1999.

132.Professional Member, American Society for Engineering Education (ASEE), 2002 – 2006.

133.Member, The International Society for Optical Engineering, (SPIE), 2004 – 2005.

134.Professional Member, The Association for Computing Machinery (ACM), 1990 - 2004.