ANNUAL REPORT 2014 NSA TC, IEEE CAS SOCIETY
(Time Period: May 2013 --- May 2014)

Conferences or workshops where the NSA TC or members of the TC were actively involved in 2013-2014 include the following: Short Courses, Plenary Sessions, Keynote Speakers, Invited Lectures:

1. **Bin-Da Liu**, Program Committee Member, the 8th Argentine School of Micro-Nanoelectronics, Technology and Applications (EAMTA), August 10-18, 2013, Buenos Aires, Argentina
2. **Bin-Da Liu**, Technical Program Committee Member, the IEEE 10th International Conference on ASIC (ASICON), October 28-31, 2013, Shenzhen, China
3. **Bin-Da Liu**, Co-Chair of Technical Program Committee, the 2013 International Conference on Computer, Communications, Circuits and Systems (ICCCAS), November 15-17, 2013, Chengdu, China
5. **Christoph Posch**, Neuromorphic vision – sensing and encoding for temporal resolution, dynamic range and power efficiency, Symposium on Grand Challenges in Neural Technology 2013, Dec 5, 2013, Singapore, invited lecture
6. **Jacek M. Zurada**, 2013 International Conference on Neural Networks (IJCNN'13), Co-organizer and Co-chair of a Special Session "Complex-Valued Neural Networks", Dallas, Texas, August 4-9, 2013 (with Igor Aizenberg, Danilo Mandic and Akira Hirose)
7. **Eugenio Culurciello**, University of California at Riverside, Feb 21st 2014, host: Najjar Walid najjar@cs.ucr.edu, Title: Modeling the human visual system in hardware
8. **Eugenio Culurciello**, Qualcomm, San Diego CA, February 7th 2014, host: Anthony Lewis, Title: Enabling computers to perceive the world
9. **Eugenio Culurciello**, Swinburne University Melbourne, May 28th 2013, Title: Optogenetic tools, models and hardware to reverse engineer the human visual system, host: David Liley, Swinburne
10. **Eugenio Culurciello**, Monash University, Melbourne, May 25th 2013, Title: Optogenetic tools, models and hardware to reverse engineer the human visual system, host: Jamie Evans
11. **Eugenio Culurciello**, University of Melbourne, May 22nd 2013, Title: Modeling the human visual system in hardware, host: Steven Prawer
12. **Eugenio Culurciello**, Involved in ICLR 2013, first conference with open-review system
13. **André van Schaik**, Technical program chair for ISCAS 2014 in Melbourne
14. **André van Schaik**, Advisory board member, Telluride Cognitive Neuromorphic Engineering Workshop 2013
15. **André van Schaik**, Organiser of the Australian Neuromorphic Engineering Workshop in June 2014
16. **Piotr Dudek**, Demos and Exhibitions Chair and Member of the Scientific Committee, CNNA 2014
17. **Piotr Dudek**, Member of the Review Committee, ISCAS 2014
20. **Shih-Chii Liu**, Telluride Neuromorphic Cognition Engineering Workshop
(21) Christian Mayr, Tutorial speaker “Neuromorphic VLSI applications”, ISCAS 2014
(22) Christian Mayr, Member of the review committee, ISCAS 2014
(23) Christian Mayr, Technical Program Co-Chair/Co-Organizer, European Conference on Circuit Theory and Design ECCTD 2013
(24) H. K. Kwan, Technical Program Co-Chair, International Conference on Digital Signal Processing (DSP 2014), Hong Kong, 20-23 August, 2014
(25) Alejandro Linares Barranco, Track Chair of ISCAS 2014
(26) Xiang Li, Probing into human interactive dynamics with temporal complex networks, International Workshop of Complex Systems and Networks, Vancouver, 2013/12 (Invited)
(27) Xiang Li, Structural controllability of temporal networks and beyond, Chinese Forum of Network Science, Beijing, 2014/4 (Keynote)
(28) Péter Szolgay, Special session organizer on ECCTD2013
(29) Péter Szolgay, Special session organizer to CNNA2014
(30) Elisabetta Chicca, NERF Neurotechnology Symposium, Leuven, Belgium, May 2014, invited talk
(31) Elisabetta Chicca, Neuromorphic VLSI systems, STINT Workshop, Monash University, Prato, Italy, 2013, invited talk
(32) Elisabetta Chicca, Neuromorphic VLSI spiking neural networks, Donders Institute, Nijmegen, Netherlands, 2013, invited talk
(33) Elisabetta Chicca, Active pre-touch sensing: from biology to neuromorphic biomimetic artifacts, CITEC Symposium 2013 "Perspectives of Cognitive Interaction", Bielefeld, 2013, invited talk
(34) Elisabetta Chicca, Neuromorphic VLSI spiking neural networks, Integrated Systems Laboratory, EPFL, Lausanne, Switzerland, 2013, invited talk
(35) Elisabetta Chicca, 2013 Workshops toward Cognitive Neuromorphic Engineering, Sardinia, Italy
(36) Boukadoum A. Mounir, 11th IEEE International NEWCAS Conference (NEWCAS 2013), Paris (France), June 16-19: Steering committee member
(37) Boukadoum A. Mounir, 16th International Conference on Analog VLSI Circuits (AVIC 2013), Montreal (Canada), October 16-18: Co-General Chair
(38) Boukadoum A. Mounir, 20th IEEE International Conference on Electronics, Circuits, and Systems (ICECS 2013), Abu Dhabi (UAE), December 8-11: Steering committee member
(39) Shantanu Chakrabartty, Expeditions in Floating-gate Circuits and Systems: Self-powered sensing and computing, Department of Electrical and Computer Engineering, Stony Brook University, NY, Dec. 2013
(40) Shantanu Chakrabartty, Expeditions in Floating-gate Circuits and Systems: Self-powered sensing and computing, Department of Electrical and Computer Engineering, Tufts University, MA, Nov. 2013
(41) Shantanu Chakrabartty, Expeditions in Floating-gate Circuits and Systems: From Self-powered sensors to nano-watt analog processors, Department of Electrical and Computer Engineering, University of Toronto, Canada, Nov. 2013
(42) Shantanu Chakrabartty, Expeditions in Floating-gate Circuits and Systems: From Self-powered sensors to nano-watt analog processors, Department of Computer Science and Engineering, Washington University, St. Louis, Oct. 2013
(43) Fangyue Chen, 12th International Work-Conference on Artificial Neural Networks (IWANN'2013) (Advances in Computational Intelligence), Tenerife, Spain, 12-14 June, 2013
(44) Fangyue Chen, invited Lecture: A Novel Neural Network Parallel Adder, IWANN'2013
Donald Y. C. Lie, invited and presented a Friday Integrated Circuits Design Seminar at University of Southern California (USC), Department of Electrical Engineering, Los Angeles, CA on Jan 17, 2014 with talk title "Design of Silicon-Based Envelope-Tracking Power Amplifiers (ET-PA) for Highly-Efficient Broadband Wireless Applications; also a Briefing on Medical Electronics Research in My Group". Host: Prof. Hossein Hashemi, Prof. Mike Chen and Prof. Martin Gundersen

Donald Y. C. Lie, invited and presented a seminar at Osaka University, Department of Electrical Engineering, Osaka, Japan on Aug. 2, 2013 with talk title “Power-Efficient RF/Analog ICs and System Design for Wireless and Biomedical Applications”. Host: Prof. Yagi Tetsuya, Osaka University, Japan

Donald Y. C. Lie, invited to visit Tokushima University, Japan from July 30 to Aug. 2, 2013 and presented a seminar on “Power-Efficient RF/Analog ICs and System Design for Wireless and Biomedical Applications: also on the Cultures of Texas & Taiwan”. Host: Professor Nishio Yoshifumi, Tokushima University, Japan

Donald Y. C. Lie, organized a most-attended IEEE RFIC Symp. Workshop among more than a dozen of all workshops for the entire IEEE RFIC Symp. 2013 on “High Efficiency Supply-Modulated RF Power Amplifier”, IEEE RFIC Symp./IMS Workshop WSB, Sunday June 2, Seattle, WA 2013

Donald Y. C. Lie, invited and presented a talk on "Design of Monolithic Silicon-Based Envelope-Tracking Power Amplifiers for Broadband Wireless Applications". Organizers: Prof. Donald Lie, PhD, Texas Tech University; Nick Cheng, PhD, Skyworks Solutions, Inc. Sponsor: IEEE RFIC Symp, June 2, Seattle, WA 2013

Wei Xing Zheng, Organizing Committee Member of the 47th IEEE International Symposium on Circuits and Systems (ISCAS'2014), Melbourne, Australia, June 2014

Wei Xing Zheng, Special Sessions Co-Chair of the 47th IEEE International Symposium on Circuits and Systems (ISCAS’2014), Melbourne, Australia, June 2014

Wei Xing Zheng, Technical Program Committee Member of the 25th Chinese Control and Decision Conference (CCDC’2013), Guiyang, Guizhou, China, May 2013

Wei Xing Zheng, Track Chair of Neural Networks and Systems of the 46th IEEE International Symposium on Circuits and Systems (ISCAS’2013), Beijing, China, May 2013

Wei Xing Zheng, International Program Committee Member of the 9th Asian Control Conference (ASCC’2013), Istanbul, Turkey, June 2013

Wei Xing Zheng, Program Committee Member of the 32nd Chinese Control Conference (CCC’2013), Xi’an, Shaanxi, China, July 2013

Wei Xing Zheng, Organized & Focused Session Chair of the 2013 IEEE International Conference on Automation and Logistics (ICAL’2013), Yinchuan, China, August 2013

Wei Xing Zheng, Program Committee Member of the 2013 IEEE International Conference on Information and Automation (ICIA’2013), Yinchuan, China, August 2013

Wei Xing Zheng, Program Committee Member of the 3rd IFAC International Conference on Intelligent Control and Automation Science (ICONS’2013), Chengdu, Sichuan, China, September 2013.

Wei Xing Zheng, Technical Program Committee Member of the 3rd Australian Control Conference (AUCC’2013), Perth, Australia, November 2013

Wei Xing Zheng, International Program Committee Member of the 2013 IEEE International Conference on Robotics and Biomimetics (ROBIO’2013), Shenzhen, China, December 2013
(61) **Wei Xing Zheng**, Technical Program Committee Member of the 26th Chinese Control and Decision Conference (CCDC’2014), Changsha, May 2014

(62) **Wei Xing Zheng**, International Program Committee Member of the 11th World Congress on Intelligent Control and Automation (WCICA’2014), Shenyang, China, June 2014

(63) **Wei Xing Zheng**, Technical Program Committee Member of the 33rd Chinese Control Conference (CCC’2014), Nanjing, China, July 2014

(64) **Wei Xing Zheng**, Program Committee Member of the 2014 IEEE International Conference on Information and Automation (ICIA’2014), Hailar, China, July 2014

(65) **Wei Xing Zheng**, International Program Committee Member of the 11th International Conference on Informatics in Control, Automation and Robotics (ICINCO’2014), Vienna, Austria, September 2014

(66) **Wei Xing Zheng**, Technical Program Committee Member of the 4th Australian Control Conference (AUCC’2014), Canberra, Australia, November 2014

(67) **Wei Xing Zheng**, Program Committee Member of the 53rd IEEE Conference on Decision and Control (CDC’2014), Los Angeles, USA, December 2014

(68) **Wei Xing Zheng**, International Program Committee Member of the 2014 IEEE International Conference on Robotics and Biomimetics (ROBIO’2014), Hanoi, Vietnam, December 2014

(69) **Jinhu Lü**, Complex Networks: Examples, Basic Concepts, Modeling; 2) Network Sciences: Opportunities and challenges, 2013 Summer School on Complex Systems of NSF and Department of Education of China, July 9-20, 2013, Beijing, China (Plenary Talk)


(71) **Jinhu Lü**, Big Data: Opportunities and challenges for Network Sciences, Scientific Data Processing and Analysis Workshop, October 21-22, 2013, Hefei, China (Plenary Talk)

(72) **Jinhu Lü**, Big Data: Opportunities and challenges for Network Sciences, Network Control and Network Fault Diagnosis Workshop, November 22-23, 2013, Nanjing, China (Plenary Talk)

(73) **Jinhu Lü**, Big Data: Opportunities and challenges for Network Sciences, the 8th Workshop on Complex Systems and Network Sciences, November 23, 2013, Nanjing, China (Plenary Talk)

(74) **Jinhu Lü**, Complex Networks: Nexus of all realities in circuits and systems, Distinguished Lecture for PTRI of RMIT University, Australia, November 4-9, 2013, Melbourne, Australia (Plenary Talk)

(75) **Jinhu Lü**, When structure meets function in evolutionary dynamics on complex networks, The 10th International Workshop on Complex Systems and Networks, December 11-13, 2013, Vancouver, Canada (Plenary Talk)


(77) **Jinhu Lü**, P. Wang, L. Wan and Y. Chen, A stochastic simulation algorithm for biochemical reactions with delays, the 7th International Conference on Systems Biology (ISB), August 23–25, 2013, Huangshan, China

(78) **Jinhu Lü**, F. Li, Y. Chen and D. Hill, Cluster consensus of Boolean multi-agent systems, the 9th Asian Control Conference (ASCC), June 23-26, 2013, Istanbul, Turkey

(79) **Jinhu Lü**, C. Shen, S. Yu and G. Chen, Generating hyperchaotic systems with multiple positive Lyapunov exponents, the 9th Asian Control Conference (ASCC), June 23-26, 2013, Istanbul, Turkey
(80) Jinhu Lü, W. Xiong, W. Yu and X. Yu, Fuzzy sampled controller design for consensus of multiagent networks with varying connections, the 9th Asian Control Conference (ASCC), June 23-26, 2013, Istanbul, Turkey

(81) Jinhu Lü, W. Yu, X. Yu and G. Chen, A step forward to pinning control of complex networks: Finding an optimal vertex to control, the 9th Asian Control Conference (ASCC), June 23-26, 2013, Istanbul, Turkey

(82) Jinhu Lü, S. Tan, X. Yu and D. Hill, Inheritance of spatial neighborhood: A feasible mechanism for evolution and maintenance of cooperation, the 32nd Chinese Control Conference (CCC), July 26-28, 2013, Xi’an, China

(83) Jinhu Lü, W. Sun, S. Chen and X. Yu, Consensus of multi-agent systems with unbalanced topology, the 32nd Chinese Control Conference (CCC), July 26-28, 2013, Xi’an, China

(84) Jinhu Lü, H. Zhu and J. Lu, Synchronization of a class of small-world networks via drivingly coupled scheme, the 32nd Chinese Control Conference (CCC), July 26-28, 2013, Xi’an, China

(85) Jinhu Lü, Y. Chen, H. Dong and X. Sun, Non-smooth Lyapunov function for nonlinear consensus problem, the 2013 American Control Conference (ACC), June 17-19, 2013, Washington, USA

Distinguished Lecturer in 2013-2014:

(1) Jacek M. Zurada, 2013-15 Distinguished Speaker for IEEE Computational Intelligence Society

Editorial Service:

(1) Bin-Da Liu, Associate Editor, IEEE Transactions on Circuits and Systems-I, Regular Papers
(2) Bin-Da Liu, Associate Editor, IEEE Transactions on Circuits and Systems-II, Express Briefs
(3) Bin-Da Liu, Associate Editor, Journal of Electrical and Computer Engineering
(4) Bin-Da Liu, Associate Editor, Circuits, Systems, and Signal Processing
(5) Tobi Delbruck, Associate Editor of IEEE Transactions on Biomedical Circuits and Systems (2010 – present)
(6) Tobi Delbruck, Associate Editor of Frontiers in Neuromorphic Engineering (2010 – present)
(7) Christoph Posch, Review Editor – Frontiers in Neuromorphic Engineering
(8) Jacek M. Zurada, Editorial Board Member, Measurement, Automation and Monitoring Journal (ISSN 0032-4140), since January 2012
(9) Jacek M. Zurada, Guest Co-Editor of a Special Issue of IEEE Transactions on Neural Networks on "White Box Nonlinear Prediction Models" (with B. Baesens, D. Martens, R. Setiono), vol.22, No.12, December 2011
(10) Jacek M. Zurada, Guest Co-Editor of a Special Issue of International Journal of General Systems (with K. Tenekedjiev, N. Nikolova), July 2010
(12) Jacek M. Zurada, Member of the Editorial Board, Neural Networks, (2009 – present)
(13) Jacek M. Zurada, Member of the Editorial Board, International Journal of Computational Intelligence and Applications (Imperial College Press), (2010 – present)


16) **Jacek M. Zurada**, Guest Co-Editor of a Special Issue of International Journal of Neural Systems on “Neuro-fuzzy Systems and their Applications” (with L.Rutkowski and M.J.Er), October 2010


19) **Jacek M. Zurada**, Editorial Board Member, Electronics and Communications Quarterly of the Polish Academy of Sciences (2008 – present)


21) **Jacek M. Zurada**, Member, Periodicals Review Committee for Polish Academy of Sciences, (2008 – present)

22) **Eugenio Culurciello**, discussing open access and ways to improve the current publishing system: https://engineering.purdue.edu/elab//html/publications-publishing-model.html

23) **Chiara Bartolozzi**, Associate editor for Frontiers in Neuromorphic Engineering

24) **Chiara Bartolozzi**, Co-editor of Special Topic "Synaptic plasticity for Neuromorphic Systems" for Frontiers in Neuromorphic Engineering

25) **Chiara Bartolozzi**, Reviewer of Journal of Neuroscience Methods

26) **Chiara Bartolozzi**, Reviewer of International Joint Conference on Neural Networks (IJCNN 2014), Beijing, China, July 6-11, 2014

27) **Chiara Bartolozzi**, Reviewer of IEEE International Symposium on Circuits and Systems (ISCAS2014), Melbourne, Australia, 1-5 June 2014

28) **Chiara Bartolozzi**, Co-organiser and chair of a special session at IEEE International Symposium on Circuits and Systems (ISCAS2014), Melbourne, Australia, 1-5 June 2014, session B1L-A Analog Circuits for Short & Long Term Synaptic Dynamics

29) **André van Schaik**, Special Research Topic editor for Frontiers in Neuromorphic Engineering

30) **André van Schaik**, Associate editor for Frontiers in Neuromorphic engineering

31) **Piotr Dudek**, Review Editor, Frontiers in Neuromorphic Engineering (2010 – present)

32) **Shih-Chii Liu**, Associate Editor of IEEE Trans. on Biomedical Circuits and Systems

33) **Shih-Chii Liu**, Associate Editor of Frontiers in Neuromorphic Engineering

34) **Christian Mayr**, Guest Editor: Frontiers in Neuromorphic Engineering

35) **Christian Mayr**, Associate Editor: Advances in Artificial Neural Systems

36) **Alejandro Linares Barranco**, Review Editor in Frontiers on Neuromorphic Engineering

37) **Xiang Li**, Associate Editor, IEEE Trans. Circuits and Systems – I: Regular Papers

38) **Xiang Li**, Associate Editor, IEEE Circuits and Systems Society Newsletters

39) **Xiang Li**, Associate Editor, Control Engineering Practice

40) **Péter Szolgay**, Editor of Int. J. Circuit Theory and Applications, Wiley
(41) **Elisabetta Chicca**, Co-organiser and chair of a special session at IEEE International Symposium on Circuits and Systems (ISCAS2014), Melbourne, Australia, 1-5 June 2014, session "B1L-A Analog Circuits for Short & Long Term Synaptic Dynamics"

(42) **Elisabetta Chicca**, Co-editor of a special session of Neural Networks (Volume 45) with title "Neuromorphic Engineering: From Neural Systems to Brain-Like Engineered Systems", 2013

(43) **Elisabetta Chicca**, Co-editor of the research topic "Synaptic plasticity for Neuromorphic Systems" hosted by Frontiers in Neuromorphic Engineering

(44) **Elisabetta Chicca**, Associate editor of "Frontier in Neuromorphic Engineering" (2011 – present)

(45) **Elisabetta Chicca**, Reviewer for Frontiers in Neuromorphic Engineering, BioNanoScience

(46) **Shantanu Chakrabartty**, Associate Editor, IEEE Transactions of Biomedical Circuits and Systems

(47) **Shantanu Chakrabartty**, Review Editor, Frontiers in Neuromorphic Engineering

(48) **Shantanu Chakrabartty**, Chair-elect, IEEE Circuits and Systems Society, Neural Systems and Applications

(49) **Robert W. Newcomb**, Associate Editor: Neurocomputing

(50) **Fangyue Chen**, Associate Editor of International Journal of Bifurcation and Chaos (IJBC, World Scientific)

(51) **Donald Y. C. Lie**, Associate Editor, IEEE Microwave and Wireless Components Letters (2010 – present)

(52) **Donald Y. C. Lie**, Associate Editor-in-Chief, Open Journal of Applied Biosensor (OJAB) (2012 – present)

(53) **Donald Y. C. Lie**, Area Editor-in-Chief for International Journal on Wireless and Optical Communications (2001 – present)

(54) **Donald Y. C. Lie**, Editorial Board Member, i-manager’s Journal on Electrical Engineering (2009 – present)

(55) **Wei Xing Zheng**, Associate Editor, Automatica

(56) **Wei Xing Zheng**, Associate Editor, IET Control Theory & Applications

(57) **Wei Xing Zheng**, Associate Editor, IEEE Transactions on Automatic Control

(58) **Wei Xing Zheng**, Associate Editor, IEEE Transactions on Fuzzy Systems

(59) **Wei Xing Zheng**, Associate Editor, Circuits, Systems and Signal Processing

(60) **Jinhu Lü**, Associate Editor of IEEE Transactions on Industrial Electronics (2013 – present)

(61) **Jinhu Lü**, Associate Editor of IEEE Transactions on Industrial Informatics (2011 – present)


(64) **Jinhu Lü**, Guest Associate Editor of the Special Section on NOLTA-Journal, IEICE: "Special Section on Communications and Networks from Scientific Viewpoints" (2013)

(65) **Jinhu Lü**, Member of the Editorial Board of Abstract and Applied Analysis (2011 – present)

(66) **Jinhu Lü**, Member of the Editorial Board of Mathematical Problems in Engineering (2014 – present)

(67) **Jinhu Lü**, Associate Editor of Kybernetika (2010 – 2015)

(68) **Jinhu Lü**, Associate Editor of Acta Automatica Sinica (2011 – 2014)

(70) Jinhu Lü, Member of the Editorial Board of Journal of Nonlinear Systems and Applications (2009 – present)

(71) Jinhu Lü, Member of the Editorial Board of ARI - The Bulletin of the Istanbul Technical University (2009-present)

(72) Jinhu Lü, Associate Editor of Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis (2008 – present)

Publications (Journal Articles, Conference Papers, Books, Book Chapters):

Journal Articles


(6) João Carneiro, Sio-Hoi Ieng, Christoph Posch, Ryad Benosman, "Event-based 3D reconstruction from neuromorphic retinas", Neural Networks, Volume 45, September 2013, Pages 27-38, ISSN 0893-6080.


(35) Yang Yang, Xiang Li, "Towards a snowdrift game optimization to vertex cover of general networks", IEEE Transactions on Cybernetics, 2013, 43(3), 948-956.


(44) N. Nouaouria and M. Boukadoum, "Improved Global-Best Particle Swarm Optimization Algorithm with Mixed-Attribute Data Classification Capability", Applied Soft Computing, manuscript ID: ASOC-D-12-00385 (Accepted), 2014.


(46) S. Lahmiri and M. Boukadoum, "Automated detection of circinate exudates in retina digital images using empirical mode decomposition and the entropy and uniformity of intrinsic mode functions", Biomedical Engineering/Biomedizinische Technik, 0(0), 10 pages, 2014.


Conference Papers


J. Wang, J. M. Zurada, J. Wang and G. Xie, "Boundedness of Weight Elimination for BP Neural Networks", accepted for Proc. of Int'l Conf. on Artificial Intelligence and Soft Computing (ICAISC’14), Zakopane, Poland, June 1-5, 2014.

E. H. Asl and J. M. Zurada, "Nonnegative Matrix Factorization for Document Clustering: A Survey", accepted for Proc of Int’l Conf. on Artificial Intelligence and Soft Computing (ICAISC’14), Zakopane, Poland, June 1-5, 2014


(26) S. Hussain, R. Gopalakrishnan, A. Basu and S-C. Liu, "A morphological learning: Increased memory capacity of neuromorphic systems with binary synapses exploiting AER based reconfiguration", 2013 International Joint Conference on Neural Networks (IJCNN), Aug 4--9, Dallas, Texas, 2013.


(40) Xiang Li, Xin Liu and Chi K. Tse, "Recent advances in bridging time series and complex networks", IEEE Int. Symposium on Circuits and Systems (ISCAS 2013), Beijing, 2505-2508.

(41) Lang Cao, Xiang Li and Lin Han, "Detecting community structure of networks using evolutionary coordination games", IEEE Int. Symposium on Circuits and Systems (ISCAS 2013), Beijing, 2533-2536.


Books and Book Chapters


Articles


Awards, Honors, and Patents:

6. Tobi Delbruck, awarded IEEE Fellow

7. Jacek M. Zurada, 2014 IEEE Life Fellow Award

8. Jacek M. Zurada, 2013 Joe Desch Innovation Award in Recognition of Exceptional Insights and Achievements which Advanced the Horizons of Digital Technologies, by the Engineers Club of Dayton

9. Eugenio Culurciello, Invited to the Microsoft Research Faculty Summit 2013, July 2013, Redmond WA

10. Eugenio Culurciello, Our deep learning research is featured on on the MIT Technology Review, on BBC, FierceWireless (Jan. 2014), and on Business Insider, Journal and Courier, on 18WLFI TV, Phys org, the Engineer, Imperial Valley News, Purdue News, Phone Arena, Hoosier

11. André van Schaik, Elevated to Fellow of the IEEE starting January 2014


13. Wei Xing Zheng, elected as an IEEE Fellow in November 2013


15. Jinhu Lü, 2014 Young Scientists Award from the Chinese Academy of Sciences

16. Jinhu Lü, 2014 The Young and Middle-Aged Talents of the Science and Technology Innovation Project from the Ministry of Science and Technology of China
(17) **Jinhu Lü**, 2013 The First Level of National Hundred, Thousand, and Ten Thousand Talents Project from the Ministry of Human Resources and Social Security of China

(18) **Jinhu Lü**, 2013 The First Prize of Most Influential Paper Award of Chinese Physical Society (Chaohai Tao, Junan Lu, and **Jinhu Lü**)

(19) **Jinhu Lü**, 2013 The Best Paper Award from the 9th Asian Control Conference (ASCC 2013) (Wenwu Yu, **Jinhu Lü**, Xinghuo Yu, and Guanrong Chen)

**Other IEEE Service:**

(1) **Bin-Da Liu**, Member of Board-of-Supervisors, IEEE Tainan Section

(2) **Christoph Posch**, Member CAS Sensory Systems TC

(3) **Christoph Posch**, Member CAS Neural Systems and Applications TC

(4) **Jacek M. Zurada**, IEEE Vice-President - Technical Activities (TAB Chair) 2014

(5) **Jacek M. Zurada**, Member, IEEE Board of Directors, 2014

(6) **Jacek M. Zurada**, Chair, IEEE TAB Management Committee, 2014

(7) **Jacek M. Zurada**, Member, IEEE TAB Nominations Committee, 2014

(8) **Chiara Bartolozzi**, Member of IEEE Sensory Systems Technical Committee

(9) **André van Schaik**, Member NSA TC, Sensory Systems TC, Analog Signal Processing TC, Biomedical and Life-Science CAS TC


(11) **Shih-Chii Liu**, Member of the IEEE CAS Sensory Systems and Neural Systems and Applications Technical Committees

(12) **Shih-Chii Liu**, Chair of IEEE Swiss CAS/ED Chapter

(13) **Shih-Chii Liu**, Reviewer for IEEE TNN, IEEE TBCAS journals and IEEE International Circuits and Systems Conference 2013

(14) **Alejandro Linares-Barranco**, Chair of the Neural Systems and Applications TC

(15) **Alejandro Linares-Barranco**, Member of the Sensory Systems TC

(16) **Alejandro Linares-Barranco**, Reviewer of IEEE Transactions on Cybernetics

(17) **Alejandro Linares-Barranco**, Reviewer of IEEE TCAS-I

(18) **Alejandro Linares-Barranco**, Reviewer of IEEE TNNLS

(19) **Xiang Li**, Technical Committee Member of Nonlinear Circuits and Systems, IEEE CAS

(20) **Xiang Li**, Technical Committee Member of Neural Systems and Applications, IEEE CAS

(21) **Elisabetta Chicca**, Secretary of the IEEE Neural Systems and Applications Technical Committee

(22) **Elisabetta Chicca**, Technical Committee (TC) member of the IEEE Biomedical Circuits and Systems TC and the IEEE Neural Systems and Applications TC

(23) **Boukadoum A. Mounir**, President of the Montreal Chapter, IEEE Computational Intelligence Society

(24) **Fangyue Chen**, The program committee member of IEEE International Workshop on Chaos-Fractals Theories and Applications (IWCFTA, 2013), August 8-11, 2013, Taiyuan, China

(25) **Donald Y. C. Lie**, General Chair of the IEEE Topical Meetings on Silicon Monolithic Integrated Circuits in RF Systems (SiRF), 2014
Donald Y. C. Lie, General Chair of the IEEE Bipolar/BiCMOS Circuits and Technology Meeting (BCTM), 2014
Donald Y. C. Lie, Technical Program Co-Chair of IEEE VLSI-DAT 2014
Donald Y. C. Lie, Member of the Executive Committee of IEEE International Midwest Symposium on Circuits and Systems (MWSCAS), 2014
Donald Y. C. Lie, Member of the Executive Committee of IEEE TSWMCS (Texas Symposium of Wireless and Microwave Circuits and Systems) 2014
Donald Y. C. Lie, Member of the Technical Program Committee of IEEE RFIC Symp., 2014
Donald Y. C. Lie, Member of the Technical Program Committee of IEEE ISCAS, 2014
Donald Y. C. Lie, Member of the Technical Program Committee of IEEE PAWR, 2014
Donald Y. C. Lie, Member of the Technical Program Committee of IEEE BIOCAS, 2014
Donald Y. C. Lie, Member of the Technical Program Committee of IEEE LiSSA
Wei Xing Zheng, serves on the International Steering Committee of the IEEE Asia Pacific Conference on Circuits and Systems (APCCAS)
Jinhu Lü, Member of Fellows Evaluating Committee of IEEE Circuits and Systems Society (2013)
Jinhu Lü, Evaluating Committee Member of Best Students Paper Award of IEEE Industrial Electronics Society (2013-2014)
Jinhu Lü, Past-Chair of Technical Committee on Neural Systems and Applications of IEEE Circuits and Systems Society (2013-2014)
Jinhu Lü, Member of Technical Committee on Intelligent Control of IEEE Control Systems Society (2009-present)

Other Professional Service:
(1) André van Schaik, Reviewer for numerous journals and funding bodies
(2) Piotr Dudek, Co-organiser of UK Design Forum, Manchester, 19-20 March 2014
(3) Piotr Dudek, Champion of the Special Interest Group on "Neurally-Inspired Engineering", UK Neuroinformatics Node
(4) Shih-Chii Liu, Reviewer for Neural Information Processing Systems (NIPS) Conference
(5) Alejandro Linares-Barranco, Reviewer of ICANN’14, ICNC’14, CITS’14, IJCNN’14, MUSIC’13, SIGMAP’13 conferences
(6) Alejandro Linares-Barranco, Reviewer in Elsevier Robotics and Autonomous Systems
(7) Alejandro Linares-Barranco, In Editorial Board of Journal of Bioinformatics and Biological Engineering(JBBE). Website: www.academicpub.org/jbbe/
(8) Alejandro Linares-Barranco, Reviewer in IOPScience Measurement Science and Technology
(9) Boukadoum A. Mounir, Chair, COFAMIC Research Center, University of Quebec at Montreal, Canada (September 2013 – today)
(10) Boukadoum A. Mounir, Acting Chair, Quebec Strategic Alliance for Microsystems Research, Canada (May 2013 – December 2013)
(11) Boukadoum A. Mounir, Quebec’s Research Fund for Nature and Technology: Member of the Strategic Grants Committee
Media and Popular Press:

(1) **Elisabetta Chicca**, press release at Bielefeld University about PNAS paper "Synthesizing Cognition in Neuromorphic VLSI Systems", published 29 July 2013