

CURRICULUM VITAE

Name

Xiao-Zhi Gao

Date of Birth

February 13, 1972

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Academic Education

- 1999, D.Sc. (Tech.), Electrical Engineering, Helsinki University of Technology, Finland.
- 1996, M.Sc., Electrical Engineering, Harbin Institute of Technology, China.
- 1993, B.Sc., Electrical Engineering, Harbin Institute of Technology, China.

Working Experiences

- April 2018 —, Professor in University of Eastern Finland, Finland.
- October 2016 — March 2018, Senior Research Fellow in Lappeenranta University of Technology, Finland.
- January — February 2016, Data Scientist in GIM Oy, Finland.
- November — December 2015, Senior Visiting Researcher in University of Jyväskylä, Finland
- January 2015 —, Project Manager and Coordinator in Dynavio Oy, Finland.
- December 2005 —, Visiting Professor in Beijing Normal University, China.
- January 2004 —, Docent and Research Group Leader in Aalto University, Finland.
- December 2004 —, Adjunct Professor in Harbin Institute of Technology, China.
- January 2003 —, Guest Professor in Beijing City University, China.
- November 2010 — December 2013, Professor of Special Appointment (Eastern Scholar) in Shanghai Maritime University, China.
- March 2006 — February 2007, Visiting Professor in Yonsei University, Korea.
- December 1999 — December 2003, Senior Research Fellow in Helsinki University of Technology, Finland.
- October 1997 — November 1999, Research Scientist in Helsinki University of Technology, Finland.
- September 1996 — September 1997, Researcher in Helsinki University of Technology, Finland.
- September 1995 — August 1996, Teaching Assistant in Harbin Institute of Technology, China.
- July 1993 — August 1995, Research Assistant in Harbin Institute of Technology, China.

Academic Activities

Scientific Activities (Projects)

- Project manager and coordinator, *Dimensional Analysis Conceptual Modelling (DACM): A Comprehensive Framework for Specifying, Validating, and Analyzing Systems Models from a Model-based System Engineering Perspective*, 170,000 USD, United States Department of Defense, 2015 — 2017.
- Project leader, *Development of Evolutionary Multi-objective Optimization Algorithms and Software for 3D Printing Systems*, 6,000 euro, Chinese Academy of Sciences, 2016 — 2017.
- Project leader, *Studies on Intelligent Processing Methods for EEG/ECOG Signals in Brain-Computer Interface*, 320,000 euro, Academy of Finland, 2010 — 2012.
- Major participant, *Computational Methods in Mechanical Engineering Product Development*, 1,300,000 euro, Tekes, Finland, 2012 — 2014.
- Major participant, *Force and Vibration as Fault Indicators for Electrical Machines*, 500,000 euro, Tekes, Finland, 2009 — 2012.
- Major participant, *Artificial Immune Systems and Applications — A Soft Computing Approach*, 260,000 euro, Academy of Finland, 2006 — 2008.
- Major participant, *Linguistic Information Feedback-based Dynamical Fuzzy Systems (LIFDFS) with Applications*, 150,000 euro, Academy of Finland, 2003 — 2005.
- Project leader, *Soft Computing Methods for Fault Diagnostics in Electric Drives*, Academy of Finland, 80,000 euro, 2001 — 2002.
- Major participant, *Soft Computing Methods for Control and Diagnosis with Applications in Electric Drives*, Academy of Finland, 70,000 euro, 1999 — 2000.

Scientific Activities (Journals)

- Chief Editor, *International Journal of Computational Intelligence in Bioinformatics and Systems Biology*, 2019 —.
- Chief Editor, *Computer Science and Information Technology Applications*, 2015 —.
- Chief Editor, *Journal of Machine Learning Technologies*, 2014 —.
- Associate Editor, *Journal of Intelligent and Fuzzy Systems*, 2018 —.
- Associate Editor, *Information Sciences*, 2016 —.
- Associate Editor, *Applied Soft Computing*, 2014 —.
- Associate Editor, *International Journal of Innovative Computing, Information and Control*, 2012 —.
- Associate Editor, *International Journal of Swarm Intelligence and Evolutionary Computation*, 2010 —.
- Associate Editor, *International Journal of Machine Learning and Cybernetics*, 2010 —.
- Associate Editor, *International Journal of Intelligent Automation and Soft Computing*, 2000 —.
- Editor, *Journal of Electrical Engineering*, 2013 —.
- Member of Editorial Board, *International Journal of Computer Aided Engineering and Technology*, 2019 —.
- Member of Editorial Board, *International Journal of Mathematical, Engineering and Management Sciences*, 2019 —.
- Member of Editorial Board, *International Journal of Applied Mathematics & Information Science*, 2018 —.
- Member of Editorial Board, *International Journal of Swarm Intelligence*, 2017 —.
- Member of Editorial Board, *International Journal of Swarm Intelligence Research*, 2017 —.

- Member of Editorial Board, *International Journal of Intelligent Computing and Cybernetics*, 2016 —.
- Member of Editorial Board, *CAAI Transactions on Intelligence Technology*, 2016 —.
- Member of Editorial Board, *International Journal of Computational Complexity and Intelligent Algorithms*, 2016 —.
- Member of Editorial Board, *International Journal of Mathematical, Engineering and Management Sciences*, 2016 —.
- Member of Editorial Board, *International Journal of Modern Science and Technology*, 2016 —.
- Member of Editorial Board, *International Journal of High Performance Systems Architecture*, 2015 —.
- Member of Editorial Board, *International Journal of Intelligent Systems Design and Computing*, 2015 —.
- Member of Editorial Board, *Neurocomputing*, 2014 —.
- Member of Editorial Board, *International Journal of Smart Grids and Green Communications*, 2014 —.
- Member of Editorial Board, *Neural Computing and Applications*, 2012 —.
- Member of Editorial Board, *Current Computer Science*, 2010 —.
- Member of Editorial Board, *International Journal of Autonomous and Adaptive Communications Systems*, 2009 —.
- Member of Editorial Board, *International Journal of Computational Intelligence Systems*, 2009—.
- Member of Editorial Board, *International Journal of Bio-Inspired Computation*, 2008 —.
- Member of Editorial Board, *Journal of Hybrid Computing Research*, 2008 —.
- Member of Editorial Board, *Applied Soft Computing*, 2000 — 2013.
- Member of International Advisory Board, *Egyptian Computer Science Journal*, 2016 —.
- Member of Editorial Advisory Board, *Journal of Scientific and Technical Research*, 2016 —.
- Member of Editorial Advisory Board, *Journal on Emerging Trends in Modelling and Manufacturing*, 2015 —.
- Lead Guest Editor, Special Issue on "Novel Swarm Intelligence Methods," *Memetic Computing*, 2016.
- Lead Guest Editor, Special Issue on "Cloud Based Cyber-Physical Systems in the Design of Next-Generation Digital Systems," *Intelligent Automation and Soft Computing*, 2016.
- Lead Guest Editor, Special Issue on "Soft Computational Approaches for Risk Exploration in Global Software Development," *International Journal of Innovative Computing and Application*, 2016.
- Lead Guest Editor, Special Issue on "Soft Computational Approaches for Prediction and Estimation of Software Development," *The Scientific World Journal*, 2016.
- Guest Editor, Special Issue on "Sensor Networks and Cloud Computing," *International Journal of Advanced Intelligence Paradigms*, 2016.
- Guest Editor, Special Issue on "Evolutionary Multi-objective Optimization and Applications in Big Data," *Applied Soft Computing*, 2016.
- Guest Editor, Special Issue on "Applications of Soft Computing Methods," *Neural Computing and Applications*, 2015.

- Guest Editor, Special Issue on "Advanced Communication and Signal Processing," *Computers and Electrical Engineering*, 2015.
- Guest Editor, Special Issue on "Theory and Applications of the Harmony Search Method," *International Journal of Bio-Inspired Computation*, 2014.
- Guest Editor, Special Issue on "Swarm Intelligence and Swarm Robotics," *Neural Computing and Applications*, 2010.
- Guest Editor, Special Issue on "Artificial Immune Systems: Theory and Applications," *Neural Computing and Applications*, 2009.
- Guest Editor, Special Issue on "Application Reviews," *Applied Soft Computing*, 2005.

Scientific Activities (Organizations)

- Member of Academic Advisory Board of Jagran Lakecity University, India, 2017 —.
- Member of Fuzzy Systems Technical Committee of *IEEE Computational Intelligence Society*, 2006 —.
- Member of Intelligent Systems Applications Technical Committee of *IEEE Computational Intelligence Society*, 2005 —.
- Member of *International Computational Intelligence Society*, 2004 —.
- Member of Scientific Committee of *World Scientific and Engineering Academy and Society*, 2003 —.
- Member of Industrial Applications (Systems) Technical Committee of *IEEE Systems, Man, and Cybernetics Society*, 2000 —.
- Member of Young Researchers Committee of *World Federation on Soft Computing*, 2000 —.
- Member of *International Society for Computers and Their Applications*, 2000 — 2001.
- Member of Student Activities Committee of *IEEE Systems, Man, and Cybernetics Society*, 1998—2000.

Scientific Activities (Conferences)

- Invited Plenary Speaker of *International Conference on Engineering Digital Green Era*, Chennai, India, March 2016.
- Invited Plenary Speaker of *Online International Workshop on Green Engineering and Technologies*, November 2015.
- Invited Plenary Speaker of *International Workshop on Synchro-phasor Measurements for Smart Grid*, Chintalavalasa, India, November 2014.
- Invited Plenary Speaker of *International Workshop on Nature Inspired Cooperative Strategies for Optimization*, Granada, Spain, June 2006.
- General Chair of *IEEE Mid-Summer Workshop on Soft Computing in Industrial Applications*, Espoo, Finland, June 2005.
- Invited Plenary Speaker of *NATO Advanced Research Workshop on Systematic Organization of Information in Fuzzy Systems*, Vila Real, Portugal, October 2001.

Awards

- International collaboration grant from Academy of Finland, Finland, 2013.
- Best Poster Paper Award from *2011 International Conference on Intelligent Systems and Knowledge Engineering*, 2011.

- Seminar organizing award from IEEE Industry Applications Society, 2006.
- Workshop organizing grant from Finnish Cultural Foundation, Finland, 2005.
- International collaboration grant from Research Foundation of Helsinki University of Technology, Finland, 2005.
- Workshop organizing grant from Academy of Finland, Finland, 2005.
- Workshop organizing grant from IEEE Finland Section, Finland, 2004.
- Postdoc Research Fellowship of National Graduate School of Electronics, Telecommunications, and Automation, Finland, 2001 — 2002.
- Outstanding Award for Overseas Chinese Scholars of Chinese Ministry of Education, 2001.
- Visiting Fellowship of Berkeley Initiative in Soft Computing at University of California-Berkeley, 2000.
- Award for exceptionally fast D.Sc. graduation of Helsinki University of Technology, Finland, 1999.
- Research Scientist fellowship from National Graduate School of Electronics, Telecommunications, and Automation, Finland, 1997 — 1999.
- Scholarship of Center for International Mobility, Finland, 1996 — 1997.