Curriculum Vitae

Prof. Hamid Reza Karimi

Politecnico di Milano

Department of Mechanical Engineering

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Professional Experience

- **Professor in Applied Mechanics** 03.2016-present
  Department of Mechanical Engineering, Politecnico di Milano,20156 Milan, Italy. 2020 Italian Ministry National Scientific Qualification for Full Professor in Automatica Sector
  2018 Italian Ministry National Scientific Qualification for Full Professor in MECHANICS APPLIED TO MACHINES Sector

- **Professor in Mechatronics-Control Systems** 04.2010-02.2016
  Group of Mechatronics of the Department of Engineering at the University of Agder, Norway.

- **Associate Professor in Control Systems** 04.2009-04.2010
  Group of Mechatronics of the Department of Engineering at the University of Agder, Norway.

Visiting Program

- **Honorary Visiting Professor, School of Computing & Engineering, The University of Huddersfield, the UK** 11.2024-11.2029

- **Visiting Professor, CRAN, Universit de Lorraine, France** 02.2018

- **August-Wilhelm-Scheer Visiting Professorship** 10-12.2015
  Faculty of Mechanical Engineering, Technical University of Munich, Germany.

- **Visiting Professor of Università degli Studi di Firenze** 07.2015
  Department of Industrial Engineering, Università degli Studi di Firenze, Firenze, Italy.

- **Visiting Professor of the Japan Society for the Promotion of Science** 11.2014-12.2014
  School of Engineering, Tokai University, Kumamoto, Japan.

Education

PhD *2001-2005*

Electrical Engineering-Control Systems Engineering, University of Tehran, , Tehran, Iran
MSc *1998-2001*

Electrical Engineering-Control Systems Engineering, University of Tehran, , Tehran, Iran
BSc *1994-1998*

Electrical Engineering-Power Systems Engineering, Sharif University of Technology , Tehran, Iran

Honors

- 2025 Member of The European Academy of Sciences (EURASC),
- 2024 National (Italy)-Ranking 1, World Ranking 33 : Top Mechanical and Aerospace Engineering Scientists, Research.com.
- 2024 National (Italy)-Ranking 1, World Ranking 85 : Top Electronics and Electrical Engineering Scientists , Research.com.
- 2024 Honorary Academic Member of National Academy of Sciences of Bolivia
- 2024 Sir James Lighthill Best Student Paper Award, the International Institute of Acoustics and Vibration.
- 2021 Distinguished Fellow of The International Institute of Acoustics and Vibration (IIAV),
- 2022 Fellow of The Asia-Pacific Artificial Intelligence Association (AAIA),
- 2021 Fellow of International Society for Condition Monitoring (ISCM),
- 2022 CM Innovation Award - The British Institute of Non-Destructive Testing (BINDT)

Research interests

- Control Theory

    synchronization, singularly perturbed (multi-time scale) systems, stability analysis, identification, estimation, time-delayed systems, fault diagnosis,

- Control Systems and Actuations

    real-time systems, Networked control systems, adaptive/robust/optimal control, autonomous control systems, large-scale systems, neural networks, fuzzy systems

- Comuptational methods

    Optimization techniques, Wavelets, numerical computations of linear/nonlinear systems, intelligent techniques.

- Application

    Vehicles, Offshore Wind Turbine/farm control, Mechatronics, health monitoring, vibration control, robotics and automation.

Invited Presentations

- 'Application of wavelets in system identification and control', university of Erlangen, Germany, June 2004.

- 'Robust Stability and Disturbance Attenuation of Uncertain Parameter-Dependent Systems', 26. Kolloquium der Automatisierungstechnik, Salzhausen, Germany, November 2004.

- 'Delay-Dependent Filtering for LPV State-Delayed Systems Using PPDQ Functions' Workshop on 'Neuere theoretische Verfahren der Regelungstechnik', Universität des Saarlandes, 25-27 September, 2006, Saarbrücken, Germany.

- 'Robust Filtering of Linear-Parameter Varying (LPV) State-Delayed Systems' Institute of Automatic Control, Technical University of Munich, Germany, July 2006.

- 'Robust Filter/Control Design for Linear Parameter-Varying (LPV) Time-Delayed Systems' Universität des Saarlandes, Germany, June 2007.

- 'Wavelet-based identification of nonlinear actuator dynamics' University of Girona, Spain, January 2008.

- 'Stability analysis, synthesis and synchronization of second-order vibration systems with time-varying delays' Delft University of Technology, Delft, The Netherlands, June 2008.

- 'Effect of time-delay on active vibration control of vehicle engine-body systems' University of Agder, Grimstad, Norway, August 2008.

- 'Local capacity control design for production networks of autonomous work systems with time-varying delays' University of Wisconsin-Madison, Madison, USA, December 2008.

- 'Advances in stability analysis and synthesis of time-delay systems with applications in networked control systems' BIBA - Bremer Institut fuer Produktion und Logistik, University of Bremen, Germany, July 2009.

- 'Semiactive vibration reduction in structures using MR dampers' Faculty of Electronic Theory, University of Paderborn, Germany, 13th of January 2010.

- 'Vibration control of structures using Magnetorheological dampers subject to seismic motions' BIBA - Bremer Institut fuer Produktion und Logistik, University of Bremen, Germany, 15th of January 2010.

- 'Semiactive vibration control strategies for adaptronic systems using Magnetorheological dampers' Semi-plenary speech at the 3rd International Symposium on Systems and Control in Aeronautics and Astronautics, Harbin, China, 8-10 June, 2010.

- 'Time-delay Markovian jumping systems' Technical University of Hamburg-Harburg, 07 July, 2011.

- Wind Turbine Control Systems, Harbin Institute of Technology, Harbin, July 2012.

- 'Stochastic Networked Control Systems: Progress and Challenges' Plenary speech at the International Symposium on Advanced Control, Filtering, and Systems Theory, 8–9 November, 2012, ECUST, Shanghai.

- 'Wind turbine control systems' Technical University of Berlin, 14 February, 2014, Berlin, Germany.

- 'Structural Control and Fault Detection of Wind Turbine Systems' Politecnico di Milano, February 2015, Milan, Italy.

- 'Offshore Wind Turbine Control Systems' Kyungpook National University, Daegu, South Korea, 15 October, 2015.

- 'Wind Turbine Systems: Modeling, Analysis and Control' The City University of Hong Kong, May 9, 2016.

- Modeling, Control and Fault Diagnosis of Wind Turbine Systems Harbin Institute of Technology, August 17, 2016.

- Wind Turbine Control Systems, Dalian University of Technology, September 22, 2016.

- Health Monitoring and Control for Wind Turbine Control Systems, East China University of Science Technology, December 30, 2016.

- Keynote Speaker, International Conference on Energy Engineering and Smart Grids, Fitzwilliam College, University of Cambridge, 25-26 June 2018, Cambridge City, United Kingdom

- Keynote Speaker, 2018 7th International Conference on Systems and Control (ICSC'18), October 24- October 26, 2018, Universitat Politècnica de València, Spain.

- Keynote Speaker, 16th International Conference on Automation Technology (Automation 2019), November 22 - 24, 2019, National Taiwan University of Science and Technology (NTUST), Taipei, Taiwan.

- Keynote Speaker, 2020 International Conference on Frontiers of Industrial Technology (ICFoIT 2020), 19th – 21st June, Prague, Czech Republic.

- Keynote Speaker, 2020 International Conference on Automation, Robotics and Applications (ICARA 2020), May 14-16, 2020, Prague, Czech Republic.

- Keynote Speaker, 2020 The 6th International Conference on Control, Automation and Robotics (ICCAR 2020), April 20-23, 2020, Singapore.
- Keynote Speaker, 2020 International Conference on Automation and Logistics (ICAL 2020), July 22-24, 2020, Beijing, China.
- Distinguished Lecturer of 2020 Chinese Control and Decision Conference, Hefei, China during 23-25 May 2020.
- Keynote Speaker, 2020 4th International Conference on Electronic Information Technology and Computer Engineering(EITCE 2020), November 6-8, 2020, Xiamen, China
- Keynote Speaker, 2020 7th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, (UPCON 2020), 27th-29th November 2020.
- Keynote Speaker, 2021 the 4th International Conference on Service Robotics Technologies, March 5-7, Chengdu, China
- Keynote Speaker, 2021 The 7th International Conference on Mechatronics and Robotics Engineering, Budapest, Hungary, February 3-5, 2021.
- Plenary Speaker, 2021 the International Meet & Expo on Robot Intelligence Technology and Applications (ROBOT-MEET2021), September 13-15, 2021, Porto, Portugal.
- Invited Speaker, 2021 European Conference on Electronic Engineering, Munich, Germany, June 10-13, 2021.
- Invited Speaker, Webinar on Motion control of minimally invasive surgical robots, IEEE Mysore Subsection-IEEE Bangalore Section and IEEE ITS Bangalore Chapter, 16 February, 2021.
- Keynote Speaker, International Conference on Materials and System Engineering (ICMSE-2021), Technical Institute for Engineers, India, May 7-8, 2021.
- Keynote Speaker, International Conference on Industrial Automation and Robotics-2021, Dehradun Institute of Technology, India, 10-11 December-2021.
- Keynote Speaker, 2021 2nd International Conference on Control, Robotics and Intelligent System (CCRIS 2021), August 21, 2021, virtually.
- Keynote Speaker, International Conference on Robotics Control and Computer Vision, National Institute of Technology Uttarakhand India, February, 2022.
- Plenary Speaker, 21st Polish Control Conference, PCC2023, Gliwice, Poland, 26-29 June, 2023.
- Plenary Speaker, 29th International Congress on Sound and Vibration, Prague, July 09-13, 2023.
- Plenary Speaker, Nineteenth International Conference on Condition Monitoring and Asset Management (CM 2023), 11th to 14th September 2023, Northampton, UK.

Membership in Professional Organizations

- 2024 Member of the Management Committee of the International Society for Condition Monitoring (ISCM).
- 2024 Honorary Academic Member of National Academy of Sciences of Bolivia
- 2024 International Advisory Board, the Center of Excellence in Artificial Intelligence, AGH University, Krakow, Poland.
- Senior Member of ACM (Association for Computing Machinery),
- The Founder and Managing Book Series on **Autonomous Control Systems and Applications**, CRC Press.
- Editor of Book Series on **Springer Tracts in Mechanical Engineering**, Springer.
- Regional Editor (Europe), Book Series on **Emerging Methodologies and Applications in Modelling, Identification and Control**, Elsevier
- vice-Chairman of 2022 INTERNATIONAL RESEARCH PRIZE "LOMBARDIA È RICERCA"
- Editorial Board Members
    - Editor in Chief, Journal of Cyber-Physical Systems - Taylor & Francis,

Guest Editors

- Lead Guest Editorial of Special Issue, IFAC Mechatronics, Special issue on "Learning-based Autonomy Techniques for Marine Vehicles (LAT-MVs)", 2022-2023.

- Lead Guest Editorial of Special Issue, Control Engineering Practice, Special issue on "Recent Advances in Reliable Control and Cost-effective Engineering Design for Autonomous Systems", 2022-2023.

- Lead Guest Editorial of Special Issue, IET Control Theory & Applications, Special issue on "Intelligent Sensing and Actuation for Autonomous Vehicles", 2022-2023.

- Lead Guest Editorial of Special Issue, DISCRETE & CONTINUOUS DYNAMICAL SYSTEMS (American Institute of Mathematical Sciences) , Special issue on "Learning-based Estimation and Control for Switched Autonomous Systems", 2022-2023.

- Lead Guest Editorial of Mathematical Biosciences and Engineering, Special Issue: Learning-based Health Monitoring and Control for Intelligent Mechatronics Systems (LHMC-IMS), 2021-2022.

- Guest Editorial of International Journal of Fuzzy Systems, Special Issue: Fuzzy Autonomy in Offshore Robotics: Theory, Algorithm, and Applications, 2021-2022.

- Lead Guest Editorial of International Journal of Robust and Nonlinear Control, Learning-based Robust Control Methodologies under Information Constraints, 2020-2021.

- Lead Guest Editorial of Transactions of the Institute of Measurement and Control, Automation in Mechatronic and Robotic Systems-Advanced Perception, Planning and Control, 2020-2021.

- Lead Guest Editorial of IEEE Transactions on Neural Networks and Learning Systems, Adaptive Learning and Control for Autonomous Vehicles, 2020-2021.

- Lead Guest Editorial of Control Engineering Practice, Recent Technological Innovations in Automation and Control Systems for Marine Vehicles, 2020-2021.

- Lead Guest Editorial of Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, Recent Developments in Deep Neural Networks for Intelligent Mechatronics, 2019-2020,

- Lead Guest Editorial of Electronics, Recent Methodologies for Reliability Modeling, Design and Control of Intelligent Mechatronic Systems, 2020-2021.

- Guest Editorial of Electronics, Advanced Control and Multiobjective Optimization of Multiple Industrial Robots, 2020-2021.

- Guest Editorial of Electronics, Fault Detection and Diagnosis of Intelligent Mechatronic Systems, 2020-2021.

- Lead Guest Editorial of IEEE/ASME Transactions on Mechatronics: Focused Section-'Reliability Design and Resilient Control for Intelligent Mechatronic Systems (RDRC-IMS) ', 2018-2019.

- Lead Guest Editorial of the Special Issue on 'Design, Modeling, Sensing, Actuation and Control for Micro/Nano Scale Systems (DMSAC-MNSS)', The International Journal of Advanced Manufacturing Technology, 2019-2020.

- Lead Guest Editorial of Journal of The Franklin Institute: Special Issue-Finite-Time stability analysis and synthesis of complex dynamic systemss, 2019-2020.

- Lead Guest Editorial of Journal of ISA Transactions, Special Issue: Recent Advances in Sliding Mode Control under Network Environment, 2019-2010.

- Lead Guest Editorial of IFAC Mechatronics: Modeling, signal processing and control of automatic transmissions for automotive systems, 2018-2019.

- Guest Editorial of IET Intelligent Transport System: AI Applications to Intelligent Vehicles for Advancing Intelligent Transport Systems, 2019-2020.

- Lead Guest Editorial of the Special Issue on 'New Trends in Sliding Mode Control and Observation for Markovian Jump Systems', The International Journal of Control, Automation, and Systems , 2018-2019.

- Guest Editorial of IEEE Access: Special Section-'Recent advances on modeling, optimization and signal processing methods in vehicle dynamics and crashworthiness ', 2017.

- Guest Editorial of the Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering: Special Section-'Advanced Analysis and Control Design of Switching Linear Parameter-varying Systems and its Applications ', 2017.

- Guest Editorial of ISA Transactions: Special Issue-'Advanced Methods in Control and Signal Processing for Complex Marine Systems', 2017.

- Guest Editorial of IEEE Access: Special Section-'Data-Driven Monitoring, Fault Diagnosis and Control of Cyber-Physical Systems', 2017.

- Guest Editorial of IEEE Access: Special Section-'Learning Systems Based Control and Optimization of Complex Nonlinear Systems', 2017.

- Guest Editorial of Asian Journal of Control: Special Issue-'SMC based observation, identification, uncertainties compensation and fault detection', 2018.

- Guest Editorial of IEEE Access: Special Section-'Analysis and synthesis of large-scale systems', 2016.

- Guest Editorial of Advances in Mechanical Engineering: Special Issue-Modeling, Optimization and Control for Complex Networked Systems, 2017.

- Guest Editorial of IET Control Theory & Applications: Special Issue-'Recent Developments on Sliding Mode Control and Its Applications for Complex Systems', 2016.

- Guest Editorial of Journal of The Franklin Institute: Special Issue-Analysis and synthesis of control systems over wireless digital channels, 2015.

- Guest Editorial of Mechatronics: Special Issue-Control and Estimation of Advanced Powertrains for Electrified Vehicles, 2015.

- Guest Editorial of Mechatronics: Special Issue-Control and Estimation of Over-Actuated Vehicles, 2014.

- Guest Editorial of Asian Journal of Control: Special Issue-Recent Developments on Modeling and Control of Hybrid Electric Vehicles, 2014.

- Guest Editorial of Abstract and Applied Analysis: Special Issue-Recent Developments on Optimization, Diagnosis and Control Methods for Modern Complex Systems, 2014.

- Guest Editorial of Mechatronics: Special Issue- Vibration Control of Structural Systems, 2014.

- Lead Guest Editorial of Journal of Applied Mathematics: Special Issue-Recent Advances on Mathematical Modeling and Control Methods for Complex Vehicle Systems, 2014.

- Lead Guest Editorial of Journal of IET Control Theory and Applications: Special Issue- Fault Detection, Isolation, and Tolerant Control of Vehicles using Soft Computing Methods, 2014.

- Lead Guest Editorial of Journal of The Franklin Institute: Special Issue-Control and Estimation of Electrified Vehicles, 2014.

- Lead Guest Editorial of The Scientific World Journal: Special Issue- Recent Advances in Complex Networks Theories with Applications, 2013.

- Lead Guest Editorial of Mathematical Problems in Engineering: Special Issue- Modeling, Planning and Control of Complex Logistic Processes, 2013.

- Guest Editorial of Abstract and Applied Analysis: Special Issue-Finite-Time Control and Estimation for Complex and Practical Dynamical Systems, 2013.

- Guest Editorial of Mathematical Problems in Engineering: Special Issue-Mathematical Modeling, Analysis and Advanced Control of Complex Dynamical Systems, 2013.

- Guest Editorial of Abstract and Applied Analysis: Special Issue-Advanced Stochastic Control Systems with Engineering Applications, 2013.

- Guest Editorial of Mathematical Problems in Engineering: Special Issue- Mathematical Control of Complex Systems, 2013.

- Guest Editorial of Mathematical Problems in Engineering: Special Issue- Mathematical Modeling, Analysis, and Control of Hybrid Dynamical Systems, 2013.

- Guest Editorial of Abstract and Applied Analysis: Special Issue- Switched Dynamics with its Applications, 2013.

- Guest Editorial of Mathematical Problems in Engineering: Special Issue- Advanced Control and Optimization with Applications to Complex Automotive Systems, 2013.

- Guest Editorial of the J. Modeling, Identification and Control: Special Issue- Issue-4th Engineering Conference Southern Norway 2011.

- Guest Editorial of Mathematical Problems in Engineering: Special Issue- Mathematical Control of Complex Systems, 2012.
- Lead Guest Editorial of Mathematical Problems in Engineering: Special Issue- New Development on Mathematical Control and Information for Fuzzy Systems, 2012.

    Conference Committees & Session Organizing
- Invited Session on pseudo time approach for Sixth Inter. Conf. Contr. Autom. Robot. Visi. (ICARCV2000), Singapore.
- Invited Session on Advanced Control Theory and Applications for the Second International Conference on Innovative Computing, Information and Control (ICICIC2007), Kumamoto, Japan, September 5-7, 2007.
- Chair of the session on Time Delay Systems: Robust Control at IFAC World Congress, Seoul, Korea, July 2008.
- Chair of the session on Control Theory at International Conference on Modelling, Identification and Control, 15-17 Feb., 2010, Innsbruck, Austria.
- Chair of the 2010 Engineering Conference Southern Norway, Grimstad, Norway, May 28, 2010,
- Chair of the session on Guidance and Navigation at the 3rd International Symposium on Systems and Control in Aeronautics and Astronautics (ISSCAA 2010), 08-10 June 2010 in Harbin, China.
- Chair of the session on Vibration Suppression at IEEE American Control Conference, June 30-July 02, 2010, Baltimore, MD.
- Chair of the session on (Semi-) Autonomous Driving at the IFAC-Symposium Advances in Automotive Control, 12-14 July 2010 in Munich, Germany.
- Invited Session on New Developments in Networked Control Systems and Applications for the the Conference on Control and Fault-Tolerant Systems (SysTol'10), October 6-8, 2010, Nice, France.
- Semi-Plenary Speaker, 3rd International Symposium on Systems and Control in Aeronautics and Astronautics (ISSCAA 2010), June 8-10, 2010, Harbin, China.
- Invited Session on New Trends in Mechatronics for the 4th International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESEG '11), Corfu Island, Greece, July 14-17, 2011.
- Invited Session on New Trends in Wind Turbine Control Systems for the Conference on 2011 IEEE Multi-conference on Systems and Control, Denver, USA, 2011.
- Program Chair 'The First Int. Conf. on Electrical Engineering and Control Applications (ICEECA'2012)', Khenchela, Algeria – November 20-22, 2012.
- International Program Committee of the International Conference of The Impact of Virtual, Remote and Real Logistics Labs–ImViReLL'12, February 28th and March 1st 2012 in Bremen, Germany.
- Member of International Program Committee of the Chinese Control and Decision Conference (CCDC 2011),
- International Program Committee of the 2011 CIRP Conference on Manufacturing Systems, June 1-3, 2011, Madison, USA.
- International Program Committee (IPC) of the 2nd International Conference on Intelligent Control and Information Processing (ICICIP'11), Harbin, Heilongjiang, China, July 25-28, 2011.
- International Program Committee of the Fourth International Symposium on Intelligent Informatics (ISII2011), May 1-3, 2011, Qingdao, China.
- Scientific Committee of the Seminar on Industrial Applications of Advanced Control (SAICA 2011), 7-8 November 2011, Barcelona, Spain.
- Member of International Program Committee for International conference on Pantograph Catenary Interaction Framework for Intelligent Control, in Amiens (France), 1-2 September 2011.
- International Program Committee of 2nd International Symposium on Systems and Control in Aeronautics and Astronautics (ISSCAA2010), 8-10 June 2010, Harbin, China.
- Member of International Program Committee for the Fifth Int. Conf. on Innovative Computing, Information and Control (ICICIC2010), December 20-22, 2010, Xi'an, China.
- Technical Program Committee of 2nd International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2010) November 21-26, 2010 - Lisbon, Portugal.

- Member of International Program Committee of the Chinese Control and Decision Conference (CCDC 2010),

- Technical Track Chair on Control Systems at International Program Committee of 2nd Int. Symposium on Systems and Control in Aeronautics and Astronautics (ISSCAA2008), 17-19 December 2008, Shenzhen, China.

- Member of International Program Committee for the Second Int. Conf. on Innovative Computing, Information and Control (ICICIC2007), Sep. 5-7, 2007, Kumamoto, Japan,

- Member of International Program Committee for the Third Int. Conf. on Innovative Computing, Information and Control (ICICIC2008), June. 18-20, 2008, Dalian, China,

- Technical Program Committee of 2011 IEEE Multi-Conference on Systems and Control, September 28-30, 2011, Denver, CO 80202, USA.

- Invited Session on Advanced Robust Control Theory and Application for the Conference on 2012 International Conference on Control, Automation, Robotics & Vision (ICARCV 2012), China.

- Plenary Speaker, New Trends on Stochastic Networked Control Systems, Int. Symp. Security and Safety of Complex Systems, Agadir, Morocco, 2013.

- Invited Session on New Trends in Analysis and Design of Switched and Discontinuous Systems, Asian Control Conference, Istanbul, Turkey, 2013.

- co-chair of International Program Committee of the International Conference on Mechatronics and Control, 3 - 5 July 2014, Jinzhou, China.

- Member of International Program Committee of the IEEE International Symposium on Intelligent Control (ISIC) within the 2014 IEEE Multi-Conference on Systems and Control, Nice/Antibes, France, 8th-10th October, 2014.

- Member of International Program Committee of the International Conference on Control, Automation, Robotics & Vision, 2014 (ICARCV2014), December 10 – 12, 2014, Marina Bay Sands, Singapore.

- Member of International Program Committee of the 2015 15th International Conference on Control, Automation, and Systems (ICCAS 2015), BEXCO, Busan, Korea, October 13 to 16, 2015.

- Member of International Program Committee of the IEEE International Symposium on Intelligent Control (ISIC) within the 2015 IEEE Multi-Conference on Systems and Control, September 21-23, Sydney, Australia.

- International Program Committee of the 2015 International Automatic Control Conference (CACS2015) and 2015 International Conference on Fuzzy Theory and Its Applications (iFUZZY 2015), Yilan, Taiwan, 18-20 November, 2015.

- International Program Committee of the 5th International Conference on Dynamics in Logistics (LDIC 2016), February 22-26, 2016, Bremen, Germany.

- Member of International Program Committee of 16th International Conference on International Symposium on Advanced Intelligent Systems 2015, November 4-7, 2015, Mokpo, Korea.

- Member of International Program Committee of 2016 First IEEE International Conference on Control, Measurement and Instrumentation (CMI 2016), January 08-10, 2016, Kolkata, India.

- Member of International Program Committee of 7th IFAC Symposium on Mechatronic Systems AND 15th Mechatronics Forum International Conference Loughborough University, 5th-8th September 2016.

- Member of International Programme Committee of IEEE 8th International Conference on Intelligent Systems (IEEE IS'16), Sofia, September 4-6, 2016

- Session Chair the Safeprocess 2015 session "FDI/FTC for Automotive Systems and their Infrastructures", 9th IFAC Symposium on Fault Detection, Supervision and Safety of Technical Processes (SafeProcess 2015), September 2-4, 2015, Paris, France.

- Member of International Program Committee of the International Conference on Control, Automation, Robotics & Vision, 2016 (ICARCV2016), Phuket, Thailand, November 13-15, 2016.

- Technical Workshop Organizer on 'Stability and control of Markovian Jump systems', 2015 15th International Conference on Control, Automation and Systems(ICCAS 2015), October 13, 2015 Busan, South Korea.

- Technical Track Chair, FDP Fault Diagnosis and Prognosis, The 42nd Annual Conference of IEEE Industrial Electronics Society, October 23-27, 2016, Firenze (Florence), Italy.

- Member of International Program Committee of 15th International Conference on Control, Automation and Systems(ICCAS 2015), October 16-19, Gyeongju, South Korea.

- Special Session Chair of Eleventh International Conference on Innovative Computing, Information and Control (ICICIC2016), August 15-17, 2016, Harbin, China.

- Invited Session Chair, Design, Modeling And Control Of Small Wind Turbines, The 42nd Annual Conference of IEEE Industrial Electronics Society, October 23-27, 2016, Firenze (Florence), Italy.

- Member of International Program Committee of The 12th International Conference on Computer Vision Theory and Applications, February 27-March 1, 2017, Porto, Portugal.

- Technical Track Chair, Fault Diagnosis/Prognosis & Fault Tolerant Control, The 43rd Annual Conference of IEEE Industrial Electronics Society, October 29-November 1, 2017, Beijing, China.

- Member of International Advisory Committee of the 2017 International Conference on Fuzzy Theory and Its Applications (iFuzzy 2017), National FORMOSA University, Yunlin, Taiwan, on November 12-15, 2017.

- Associate Editor of TC 4.2. Mechatronics, Robotics and Components - Mechatronic System for IFAC 2017 World Congress, Toulouse, France, 9-14 July 2017

- Associate Editor of 2017 IEEE Conference on Fuzzy Systems (FUZZ-IEEE 2017), Naples, Italy, July 9-12, 2017.

- Technical Program Committee, 6th International Conference on the Theory and Practice of Natural Computing, Prague, Czech Republic, December 18-20, 2017

- Technical Program Committee Chair, 5th EAI International Conference on Big data and Cloud Computing Challenges (ICBCC 2018), March 8–9, 2018, Chennai, Tamilnadu, India

- Member of International Program Committee of the 1st IEEE International Conference on Industrial Cyber-Physical Systems (ICPS-2018), Saint-Petersburg, RUSSIA, May 15-18, 2018

- International Program Committee of the 6th International Conference on Dynamics in Logistics (LDIC 2018), February, 2018, Bremen, Germany.

- Member of International Program Committee of the 2nd IEEE International Conference on Industrial Cyber-Physical Systems (ICPS-2019), Taipei, Taiwan, May 6 - 9, 2019.

- Organizing Committee of "5th Global Summit & Expo on Materials, Photonics & Optical Instruments" (GSEMPOI-2019), November 04-05, 2019, Kuala Lumpur, Malaysia

- Conference Chair, 2020 International Conference on Frontiers of Industrial Technology (ICFoIT 2020), 19th – 21st June, Prague, Czech Republic.

- International Program Committee of the 7th International Conference on Dynamics in Logistics (LDIC 2020), February, 2020, Bremen, Germany.

- Program Chair, 2021 The 7th International Conference on Control, Automation and Robotics (ICCAR 2021), Singapore, April 23-26, 2021.

- Program Chair, 2021 European Conference on Electronic Engineering, Munich, Germany, June 10-13, 2021.

- Program Chair, WCSA 2021 (International Workshop on Control Sciences and Automation), Singapore, April 23-26, 2021

- Conference Co-Chair, 2021 8th International Conference on Automation and Logistics (ICAL 2021) and 2021 2nd International Conference on Control Theory and Control Engineering (CTCE 2021), June 3-5, 2021, Chongqing, China.

- General Chair, S-CUBE 2021, the 12th International Conference on Sensor Systems and Software, November 24-26, 2021, Portgual.

- Conference Co-Chair, 2022 The 8th International Conference on Control, Automation and Robotics (ICCAR 2022), Xiamen, China.

- Conference Program Chair, 2022 International Conference On Innovations And Development Of Information Technologies And Robotics (IDITR 2022), Chengdu, China, May 27-29, 2022

- International Program Committee of the 8th International Conference on Dynamics in Logistics (LDIC 2022), February 23-25, 2022, Bremen, Germany.

- General Chair, S-CUBE 2022, the 13th International Conference on Sensor Systems and Software, December 07-09, 2022, China.

- Technical Program Committee Chair, 2023 Asia-Pacific Conference on Control, Automation and Computer, July 27-28, 2023, Kuala Lumpur, Malaysia

- General Chair, EAI ICIMS 2023 - EAI International Conference on Intelligent Mechatronics Systems September 14-15, 2023, Milan, Italy

- General Chair, 2023 5th International Conference on Artificial Intelligence and Computer Science (AICS 2023), July 26th-28th, 2023, Wuhan, China

- General Chair, EAI ICIMS 2023 - EAI International Conference on Intelligent Mechatronics Systems September 14-15, 2023, Milan, Italy