LIST OF KEYNOTE SPEAKERS FOR AIM-CON 2026

Prof. Ponnuthurai Nagaratnam Suganthan

Department of Computer Science and Engineering, Qatar University, Qatar.
Research Professor, KINDI Center for Computing Research, Qatar University, Qatar.

Prof. P. N. Suganthan (Fellow, IEEE) received the UG and PG degrees from the University of Cambridge, Cambridge, U.K. in Electrical and Information Engineering. Later he served as a Pre-Doctoral Research Assistant with the Department of Electrical Engineering, University of Sydney, and then a Lecturer with the Department of Computer Science and Electrical Engineering, University of Queensland, from 1996 to 1999. Since August 2022, he has been with the KINDI Center for Computing Research, Qatar University, Doha, Qatar, as a Research Professor. His research interests include randomization-based learning methods, swarm and evolutionary algorithms, pattern recognition, deep learning, and applications of swarm, evolutionary, and machine learning algorithms. Dr. Suganthan was a recipient of the IEEE Transactions on Evolutionary Computation Outstanding Paper Award in 2012 and the Highly Cited Researcher Award by Thomson Reuters in computer science in 2015. He is currently an Associate Editor for IEEE Transactions on Evolutionary Computation, IEEE Transactions on Cybernetics, Information Sciences, and Pattern Recognition, and the Founding Co-Editor-in-Chief for Swarm and Evolutionary Computation journal.

Keynote Talk

Randomization Based Deep and Shallow Learning Methods for Classification and Forecasting

Abstract : This talk will first introduce the main randomization-based feedforward learning paradigms with closed-form solutions. The popular instantiation of the feedforward neural networks is called random vector functional link neural network (RVFL). Other feedforward methods included in the presentation are random weight neural networks (RWNN), extreme learning machines (ELM), Stochastic Configuration Networks (SCN), and Broad Learning Systems (BLS). We will also present deep random vector functional link implementations. Hyperparameter tuning will be addressed in detail. The talk will also present extensive benchmarking studies using classification and forecasting datasets.

Dr. Ahmad Y. Javaid

EECS Department, The University of Toledo, USA.
Founder and Director of the Cyber Security and Teaming
Research (CSTAR) Laboratory

Dr. Ahmad Y Javaid is an Associate Professor in the Department of Electrical Engineering and Computer Science (EECS) at the University of Toledo, Ohio, USA. He also serves as the Associate Chair and Undergraduate Program Director for the department, as well as the Founding Director of the Cybersecurity Solutions & Teaming Research (CSTAR) Lab. Dr. Javaid's research expertise lies at the intersection of Cybersecurity, Artificial Intelligence, and Machine Learning. His work is particularly focused on developing resilient AI-driven solutions for critical infrastructure, including integrated energy systems and communication networks. He has authored numerous high-impact publications and has been a lead investigator on several research projects funded by federal and state agencies. Dr. Javaid is also the Director of International Partnerships for the College of Engineering at UToledo, where he fosters global academic and research collaborations.

Keynote Talk

Empowering Sustainable and Resilient Integrated Energy Systems (IES) through Deep Reinforcement Learning

Abstract: As the global energy landscape transitions toward decentralized and integrated architectures, ensuring both sustainability and resilience against cyber-physical threats has become a paramount challenge. Integrated Energy Systems (IES) offer a promising pathway to sustainability by optimizing multiple energy carriers; however, their complexity and stochastic nature make traditional control methods insufficient. This keynote explores the application of Deep Reinforcement Learning (DRL) as a transformative tool for managing Network-Resilient Integrated Energy Systems (NR-IES). We will discuss how DRL agents can be trained to navigate high-dimensional, dynamic environments to optimize energy dispatch while simultaneously detecting and mitigating cyber-anomalies in real-time. By leveraging the self-learning capabilities of DRL, we can enhance the "intelligence" of the grid, ensuring it remains robust against sophisticated attacks and operational uncertainties. The session will conclude with a vision of how AI-driven resilience directly contributes to the long-term sustainability and reliability of critical infrastructure.

Prof. Qin Xin

Department of Computer Science, Faculty of Science and Technology, The University of the Faroe Islands, Denmark.

Prof. Qin Xin received the Ph.D. degree from the Department of Computer Science, University of Liverpool, U.K., in December 2004. Currently, he is a Full Professor in computer science with the Faculty of Science and Technology, The University of the Faroe Islands (UoFI), Faroe Islands, Denmark. Prior to joining UoFI, he had held variant research positions in world leading universities and research laboratory, including a Senior Research Fellowship with Universite Catholique de Louvain, Belgium, a Research Scientist/Postdoctoral Research Fellowship with the Simula Research Laboratory, Norway, and a Postdoctoral Research Fellowship with the University of Bergen, Norway. His main research interests include the design and analysis of sequential, parallel and distributed algorithms for various communication and optimization problems in wireless communication networks, and cryptography and digital currencies, including quantum money. Moreover, he also investigates the combinatorial optimization problems with applications in bioinformatics, data mining, and space research.

Keynote Talk

Almost Optimal Deterministic Rendezvous, Treasure Hunt, and Strongly Universal Exploration Sequences
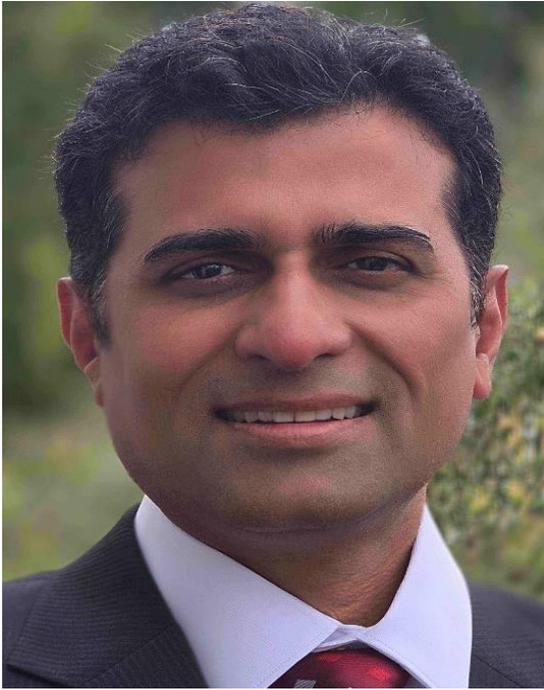
Dr. Fahim Mohammad

Senior AI & Machine Learning Scientist, Cisco Systems, USA.

Dr. Fahim Mohammad, based in Portland, Oregon, USA, is currently a Machine Learning Engineering Technical Leader at Cisco, USA. Dr. Fahim Mohammad brings experience from previous roles viz. Senior AI Framework Engineer & Data Scientist at Intel Corporation and Microsoft, USA. He has also worked as Clinical Data Scientist and Research Fellow at Harvard University from Jul 2012 to May 2014, Boston, MA. Dr. Fahim Mohammad holds a 2008 - 2012 Doctor of Philosophy (Ph.D.) in Computer Science and Engineering from University of Louisville. His area of research interests includes Machine Learning, Deep Learning, Applied Artificial Intelligence, and Computer Vision.

Keynote Talk

Large Language Models Beyond the Hype: Real Applications, Real Limitations, and the Road Ahead

Prof. Brejesh Lall

Department of Electrical Engineering, IIT Delhi, India.

Prof. Brejesh Lall received the B.E. degree in electronics and communication engineering and the M.E. degree in signal processing from the Delhi College of Engineering, New Delhi, in 1991 and 1992, respectively, and the Ph.D. degree in signal processing from the IIT Delhi, New Delhi, in 1999. From 1997 to 2005, he was with Hughes Software Systems, where he worked in the signal processing group on source coding and PHY layer solutions for many communication technologies, such as terrestrial wireless, GEO and LEO satellite communication systems, and satellite broadband. He joined the Department of Electrical Engineering, IIT Delhi as a Faculty Member in 2005, where he is currently a Professor. He has served as the Head of the Bharti School of Telecommunication Technology and Management, IIT Delhi, and the Coordinator of the National Cadet Corps, IIT Delhi. His research interests are broadly in signal processing, image processing, and communications, including the areas of object representation, tracking, and classification, odometry, depth map generation, representation, and rendering, vector sensor-based underwater acoustic communications, and performance issues in molecular communications.

Keynote Talk

AI and Machine Learning in Haptics

Prof. M. Tanveer

Department of Mathematics, IIT Indore, Indore (M.P.) India.
INSA Distinguished Lecture Fellow, IEEE CIS Distinguished Lecturer (2024-2026), INSA Associate Fellow and SERB Ramanujan Fellow

Prof. M. Tanveer received the Ph.D. degree in computer science from JNU, New Delhi, India, in 2013. He is a Professor at IIT Indore, Indore, India. He has published more than 165 journal articles with more than 8100 citations (H-index 43). Dr. Tanveer is an IEEE CIS Distinguished Lecturer from 2024 to 2026. He was a recipient of numerous awards including the IIT Indore Excellence Research Award, the INNS Aharon Katzir Young Investigator Award, and the INSA Distinguished Lecture Fellow. He is/was the Associate Editor of IEEE Transactions on Neural Networks and Learning Systems (TNNLS), IEEE Transactions on Fuzzy Systems (TFS), IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI) and Elsevier's Neural Networks (NeuNet), Pattern Recognition (PR), and Applied Soft Computing (ASOC).

Keynote Talk

Advancing Alzheimer's Diagnosis: The Role of Shallow and Deep Learning Algorithms

Prof. Mhamed Sayyouri

Sidi Mohamed Ben Abdellah University, Fes, Morocco

Prof. Mhamed Sayyouri is a qualified professor at the Department of Industrial Engineering, National School of Applied Sciences of Fez (ENSAF), Sidi Mohamed Ben Abdellah University, Morocco. With a multidisciplinary background in physics, applied mathematics, automation, and information processing, he earned a DESA in Automation and Information Processing (2004) and a Ph.D. in Signals, Systems, and Computer Science (2014). His research focuses on signal and image processing, computer vision, artificial intelligence, evolutionary optimization, and feature extraction. He develops advanced methods for the analysis, recognition, and security of visual and multimedia data. An author of over 120 international publications, he is widely recognized for his contributions to these fields.

Keynote Talk

From Data to Intelligence: Optimized AI Models for Signal, Image, and Multimedia Systems

Prof. P. Shanti Thilagam is a distinguished faculty in the field of Data Analytics, Data Security, and Data Management at National Institute of Technology (NITK), Suratkal. She is honoured with a Distinguished Alumnus Award from NITK, Surathkal, India, in Nov 2019. She is the recipient of M.S Ramanujan Lecture Award, 30th National convention of Computer Engineers, The Institution of Engineers (India), 18-19 Feb, Salem. She also has received BITES Best PhD Thesis Award for the year 2009 in the category of "Computer Science & Engineering".

Prof. P. Shanti Thilagam

National Institute of Technology Karnataka, Suratkal, India

Keynote Talk

Topic is Awaited

Dr. Koushik Guha

National Institute of Technology Silchar, India

Dr. Koushik Guha received the B.Tech. degree in electronics and communication engineering from Techno India, Salt Lake, Kolkata, under the West Bengal University of Technology, India, in 2005, the M.Tech degree in electronics and communication engineering (RF and Microwaves) from Burdwan University, West Bengal, India, in 2007, and the Ph.D. degree in design and modeling of RF MEMS shunt switch from NIT Silchar, in 2016. He was a Lecturer with the Department of ECE, Haldia Institute of Technology (HIT), West Bengal, from 2007 to 2010. He has been an Assistant Professor with the National Institute of Technology, Silchar, since 2010. He served as a Visiting Faculty of NIT Mizoram, from 2012 to 2014.

Keynote Talk

Role of AI ML in Semiconductor and VLSI Technology

Prof. Sabrina Tiziana Gaito

University of Milan, Italy

Prof. Sabrina Tiziana Gaito received a degree in Physics in 1996, a Master Degree in Material Science in 1998 and a Ph.D. in Applied Mathematics in 2002 from the University of Milan, Italy. I am currently full professor at the Computer Science Department of the University of Milan, where I am the Director of the CONNETS Lab (Computer Network and Network Science Lab, connets.di.unimi.it). She is Editor in Chief of "Applied Network Science", Springer-Nature and also Member of the Editorial Board of "PLOS One". She has published 90+ articles with peer reviews and indexed by Scopus in prestigious magazines and conferences, including Elsevier Computer Networks, Elsevier Ad hoc Networks, Elsevier Computer Communications, Elsevier Theoretical Computer Science, Springer Mobile Networks and Applications.

Keynote Talk

Reading Temporal Networks Through Graph Evolution Rules

Abstract : Temporal networks encode not only when interactions occur, but also how recurrent mesoscopic mechanisms progressively reshape connectivity. Yet, most approaches either extend static descriptors to time-stamped data or adopt growth models that pre-impose a small set of mechanisms. In this talk I present a framework to read temporal networks through Graph Evolution Rules (GERs): probabilistic patterns, inspired by association rules, in which a subgraph observed at a given time tends to evolve into one or more subgraphs at a subsequent with measurable likelihood. GERs provide an explicit, mechanism-oriented representation of network dynamics and yield a compact, interpretable Network Evolution Profile—a distribution over statistically validated rules that captures the "evolution signature" of a system and supports rigorous comparison across graphs, communities, and ego-networks. This perspective opens the way to mechanism-preserving GNN architectures, improved explainability grounded in explicit evolutionary transformations, and practical applications such as anomaly detection and distributional shifts framed as changes (drift or change points) in the evolution profile

Dr. Rajiv Soundararajan

**Department of Electrical Communication Engineering
IISC Bangalore, India.**

Dr. Rajiv Soundararajan received the B. E. degree in Electrical and Electronics Engineering from Birla Institute of Technology and Science (BITS), Pilani, India in 2006. He received the M. S. and Ph. D. degrees in Electrical and Computer Engineering from The University of Texas at Austin, USA in 2008 and 2012 respectively. Between 2012 and 2015, he was with Qualcomm Research India, Bangalore. He is currently an Associate Professor at the Indian Institute of Science, Bangalore. He received the 2016 IEEE Circuits and Systems for Video Technology Best Paper Award and 2017 IEEE Signal Processing Letters Best Paper Award. He also received a Technology and Engineering Emmy® Award from the National Academy of Television Arts & Sciences in 2021 for the "Development of Perceptual Metrics for Video Encoding Optimization". His research interests are broadly in image and video signal processing, computer vision, machine learning and information theory.

Keynote Talk

Topic is Awaited

Dr. Anurag Singh

Department of Computer Science & Engineering NIT Delhi.

Dr. Anurag Singh serves as the Head of the Computer Centre at NIT Delhi and is an Associate Professor, having previously held roles as Head of the Department of Computer Science and Engineering and Dean of Research and Consultancy. His research focuses on the structure and dynamics of large networks, particularly in areas such as information propagation and control, both with and without community structure. His recent work includes modeling large dynamic communication networks, analyzing their performance, and studying link prediction in monoplex and multiplex networks.

His broader research interests encompass information dynamics in complex networks (both correlated and uncorrelated), node inoculation, dynamics based on community structures, epidemic modeling over human contact networks, data analytics, video captioning, and network reconstruction. He has also secured multiple funded research projects from organizations such as DST, FIST, and AWaDH IIT Ropar.

Keynote Talk

Foundations of Agentic Systems