

Dr. Steve Chan, IARIA Fellow

Dr. Steve Chan is an International Academy, Research and Industry Association (IARIA) Fellow. He is an inventor with both international and U.S. patents and serves as a editor/reviewer for various peer-reviewed journals/conference proceedings. He serves on the Advisory/Steering Committee for the IARIA AI-based Systems and Services (AISyS) and Cyber-Technologies and Cyber-Systems (Cyber) venues. He also serves as a thought leader for IARIA and is privileged and honored to assist in pioneering advances at the nexus of Data Analytics, Artificial Intelligence (AI)/Machine Learning (ML), Future Computing, and Cyber/Digital arenas. He is the author/co-author of 26 IARIA proceedings/journal articles.



He served as an invited Keynote Speaker for the ComputationWorld 2025 Congress from 6-10 April 2025 in Valencia, Spain, and his talk was on “The Non-Obvious and Non-Trivial Aspects of Updating a Robust Heuristic for a Real-World Scenario AI-centric System.” He served as an invited Keynote Speaker for the ComputationWorld 2024 Congress from 14-18 April 2024 in Venice, Italy, and his talk was on “Counterpoising Ambiguity/Uncertainty for AI Systems.” He served as an invited Keynote Speaker for the 2022 IARIA Annual Congress on Frontiers in Science, Technology, Services, and Applications (IARIA Congress 2022) from 24-28 July 2022 in Nice, France, and his talk was on “Hybridized Machine Learning Implementation for a Complex Network Cyber-Physical Supply Chain Analysis.” His keynote for the Advances on Societal Digital Transformation (DIGITAL 2021) from 14-18 November 2021 in Athens, Greece was “AI-Centric Cyber Laboratory Services: Operationalizing White Box Architectures.” His keynote for the Fifth International Conference on Cyber-Technologies and Cyber-Systems (CYBER 2020) from 25-29 October 2020 in Nice, France was “Leveraging Sidecars for a More Probabilistic Cyber Convergence.” His keynote for the Fourth International Conference on Cyber Technologies and Cyber-Systems (CYBER 2019) from 22-26 September 2019 in Porto, Portugal was “A Cyber Key to Log Analysis.” His keynote for the Third International Conference on Cyber-Technologies and Cyber-Systems (CYBER 2018) from 18-22 November 2018 in Athens, Greece was “Leveraging Artificial Intelligence/Cognitive Computing to Meet the Increasing Cycles of Adaptation within the Cyber Domain.” His keynote for the Second International Conference on Cyber-Technologies and Cyber-Systems (CYBER 2017) from 12-16 November 2017 in Barcelona, Spain was “Energy/Cyber Security Assessment: Data Analytics for Cyber Resilience of Strategic/Critical Electrical Grid Infrastructure.” His prepared keynote for the First International Conference on Cyber-Technologies and Cyber-Systems (CYBER 2016) from 9-13 October 2016 in Venice, Italy was “Enhancing Cyber Infrastructural Resilience for Cyber Cities.” He has also served as an invited Panelist and Presenter at other IARIA venues, such as the Fourth International Conference on Data Analytics from 19-24 July 2015 in Nice, France.

Dr. Chan is an Institute of Electrical and Electronics Engineers (IEEE) Member, has previously participated in the Power & Energy and Power Electronics Societies of his IEEE chapter, and has been an invited speaker at venues, such as the IEEE Smart Grid Utility Cybersecurity Workshop. He previously served on the Program Committee for IEEE peer-reviewed venues, such as the IEEE-North Atlantic Treaty Organization (NATO) Cooperative Cyber Defense Centre of Excellence’s Cyber Conflict Conference (CYCON), as well as the Program Committee for other cyber venues, such as the Naval Postgraduate School’s Cyber Endeavour. He has authored/co-authored papers that were presented at, among other venues, the IEEE World AI IoT Congress (AIoT), IEEE International Conference on Distributed Computing Systems Workshops (ICDCSW), IEEE International Conference on Big Data Analytics and Practices (IBDAP), IEEE International Conference on Smart-Green Technology in Electrical and Information Systems (ICSGTEIS), IEEE International Conference On Cyber Management And Engineering (CyMaEn), IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT), IEEE International Conference on Condition Monitoring and Diagnosis (CMD), IEEE Sensors Applications Symposium (SAS), IEEE Computing and Communication Workshop and Conference (CCWC), IEEE Information Technology, Electronics & Mobile Communication Conference (IEMCON), IEEE International Conference on Information & Communications Technology (ICOIACT), IEEE International Conference on Digital Ecosystems and Technologies (DEST), IEEE International Conference on Collaborative Computing: Networking, Applications, and Worksharing (CollaborateCom), and IEEE Symposium on Computational Intelligence in Cyber Security (CICS). Dr. Chan has also served as a reviewer for IEEE Transactions on Power Delivery as well as IEEE Access in the area of artificial intelligence/machine learning and cyber security for real-time monitoring of control systems. Dr. Chan has held academic appointments as a Senior Fellow at the Harvard Kennedy School, a Fellow/Chief Technology Officer for the MIT Laboratory for the Public Engagement with Science (E-Lab), an advisor to the MIT Advanced Computational Modeling and Simulation Program as well as the MIT Computational Modeling Collaboration, a Research Fellow/Chief Software Architect with the MIT Engineering Systems Division (ESD), a Technology Dissemination Fellow with the MIT International Development Initiative (IDI), a National Preparedness Fellow at the MIT School of Engineering, and a Fellow at Harvard University’s Center for Geographic Analysis. He has served as a co-instructor for a MIT System Design and Management (SDM) course on Architecting and Engineering Software Systems and as lead instructor for MIT ESD Courses on Cyber Leadership and Geospatial Leadership (with co-instructors from the Harvard Kennedy School). He is an alumnus of both MIT and Harvard. His presentations and lectures have been featured at the White House, National Research Council of the National Academies, Aspen Security Forum, Todd Lecture Series, World Economic Forum, World Congress on Information Technology, and a number of United Nations venues with regards to the Industrial Internet.