Dr. Steve Chan, IARIA Fellow

Dr. Steve Chan is an International Academy, Research and Industry Association (IARIA) Fellow. He is an inventor with 14 U.S. patent and international patents and serves as an 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 and has been active in the Data Analytics, Artificial Intelligence (AI), Machine Learning (ML), Future Computing, Cyber, and Digital arenas.

Dr. Chan serves as a thought leader for IARIA and is privileged and honored to assist in pioneering advances at the nexus of Data Analytics, AI/ML, Future Computing, and Cyber/Digital in support of IARIA scientific events. These foundational elements include, among others, the work products generated for various IARIA venues, such as: "The Value of Data Analytics for Resiliency and Sustainability Efforts," "Cyber-Centered Major Challenges: Monitoring and Evaluating the Cyber-health of Industrial Systems," "Advanced Approaches to Enhance Cyber Application," and "Future AI Systems & Temporal Knowledge Graph Completion." He is active with other IARIA members with research projects in his field and adjacent disciplines. He is the author/co-author of 28 IARIA conference 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." His keynote for ComputationWorld 2024 Congress from 14-18 April 2024 in Venice, Italy was on "Counterpoising Ambiguity/Uncertainty for AI Systems." His keynote 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 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 and 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 at the IEEE Smart Grid Utility Cybersecurity Workshop. He has authored/co-authored papers that were presented at, among other venues, the IEEE International Conference on Artificial Intelligence in Information and Communication (ICAIIC), IEEE World AI IoT Congress (AIIoT), IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT), IEEE International Conference on Big Data Analytics and Practices (IBDAP), IEEE Ocean Engineering Technology and Innovation Conference (OETIC), IEEE Symposium on Computational Intelligence in Cyber Security (CICS), IEEE International Conference On Cyber Management And Engineering (CyMaEn), IEEE International Conference on Digital Ecosystems and Technologies (DEST), International Conference on Smart-Green Technology in Electrical and Information Systems (ICSGTEIS), 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 Collaborative Computing: Networking, Applications, and Worksharing (CollaborateCom), and IEEE International Conference on Distributed Computing Systems Workshops (ICDCSW). Dr. Chan has also served as a reviewer for IEEE Access in the area of artificial intelligence/machine learning and cyber security for real-time monitoring of control systems. He is an alumnus of MIT and Harvard. His presentations and lectures have been featured at the White House, National Research Council of the National Academies, World Congress on Information Technology, Aspen Security Forum, Todd Lecture Series, and a number of United Nations venues with regards to the Industrial Internet.