

Eric MSP Veith

Eric is currently head of the junior research group *Adversarial Resilience Learning* at Carl von Ossietzky University, Oldenburg, Germany. Previously, he managed the research group Power Systems Intelligence at OFFIS – Institute for Information Technology in Oldenburg, Germany, where he is now acting as scientific advisor. Eric received its PhD in computer science from the Freiberg University of Mining and Technology in Freiberg, Germany.



Eric's research interest lies in the advancement of a methodology for reliable learning agents for critical infrastructure, which is called Adversarial Resilience Learning. This encompasses research in neuroevolutionary deep reinforcement learning for continual learning, explainable reinforcement learning, as well as combining rules-based/model-based agent design paradigms with a learning component, while still being able to give guarantees for a safe deployment in critical infrastructures, such as the power grid. The agent design he develops together with the members of his research group find their application in the context of cybersecurity, market design/analysis, and reliable integration of large portions of distributed renewable energy sources.

In this capacity, he has been contributor to various conferences, such as the ACM e-Energy (where he is also member of the TPC), CD-MAKE, IEEE CoDIT, and others.

He started his scientific career with a publication at an IARIA conference (EMERGING 2013), and has been contributing to IARIA in various roles since then. Eric has given keynotes at various IARIA conferences (e.g., CYBER 2020, GREEN 2021, ENERGY 2023), offered tutorials (mostly on ARL and related topics in the DRL domain), and moderated panels (e.g., during ENERGY 2023). He is also member of the ENERGY steering committee.

As IARIA fellow, Eric strongly supports the open approach of IARIA to scientific publication; IARIA has long since been an open-access provider. IARIA conferences allow many scientists with a lot of interesting research topics to present and discuss their newest findings, even hatch new ideas together. As a fellow, Eric will support IARIA to make this possible.

Contact: <eric.veith@uol.de>