Special Issue

Future Trends of Cybersecurity in Intelligent Systems

Message from the Guest Editors

This is a call to action for Value Alignment in Cybersecurity Intelligent Systems. As Artificial Intelligence (AI) progresses from controlled laboratory environments to real-world deployment, the standard model of AI—wherein an agent optimizes a fixed, human-specified objective—is becoming increasingly untenable. This Special Issue, grounded in the principles articulated by Russell and Norvig (2021), posits that the value alignment problem—the challenge of ensuring an AI's objective function corresponds to the true preferences of its human stakeholders—is a critical, urgent frontier for Cybersecurity research. A misaligned autonomous cyber-agent, unlike a system in a simulator, cannot simply be reset. The negative consequences of its actions are real, and as its intelligence increases, so too does the potential magnitude of these consequences. This Special Issue serves as a call to action for the research community to pivot towards developing provably beneficial systems that can reason and act under objective uncertainty.

Guest Editors

Dr. Dustin Mink

Department of Cybersecurity and Information Technology, University of West Florida, Pensacola, FL 32514, USA

Dr. Ryan Benton

Department of Computer Sciences, The University of South Alabama, Mobile, AL 36688, USA

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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