

## 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.

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### Deadline for manuscript submissions

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