



IST A. Louis Medin Modeling & Simulation Seminar Series

Cyber Security and Artificial Intelligence Safety

Roman Yampolskiy

University of Louisville

Monday * February 8th * 2016

Partnership III Building – Room 233

2:00 to 3:00 – Presentation * 3:00-3:30 – Food/Beverages and Informal Discussion

Two increasingly important areas of research, cutting across both scholarly and societal boundaries, are that of Cyber Security and Artificial Intelligence. Dr. Roman Yampolskiy, faculty with the Computer Engineering and Computer Science department of the University of Louisville, will provide an overview of his research in these areas with a discussion of current and future Cyber Security challenges. Particular topics will include:

- AI's double-edged role in cyber security;
- Security and safety of artificially intelligent systems;
- Bot prevention via reversed Turing Tests;
- Artimetrics – research on identifying, classifying and authenticating robots, software and VR agents for security, customization and other purposes;
- Biometrics – Human identity recognition and verification



Dr. Stephen Fiore is hosting Dr. Yampolskiy. If you would like to meet with him, contact Steve at sfiore@ist.ucf.edu

Dr. Roman V. Yampolskiy is faculty with the department of Computer Engineering and Computer Science at the Speed School of Engineering, University of Louisville. He is the founding and current director of the Cyber Security Lab and an author of over 100 publications and numerous books including his recent authored volume, *Artificial Superintelligence: A Futuristic Approach*. His research has been discussed in magazines such as *New Scientist*, news outlets such as *BBC*, as well as on international radio (*German National Radio*, *Swedish National Radio*) and TV. Dr. Yampolskiy's research has also been featured over 250 times in numerous media reports in over 20 languages. He holds a PhD degree from the Department of Computer Science and Engineering at the University at Buffalo where he was the recipient of NSF's interdisciplinary fellowship, the NSF IGERT (Integrative Graduate Education and Research Traineeship). He is a Senior member of IEEE and AGI, Research Advisor for the *Machine Intelligence Research Institute* and an Associate of the *Global Catastrophic Risk Institute*. As an educator, he has been recognized as: Distinguished Teaching Professor, Professor of the Year, Faculty Favorite, Top 4 Faculty, Leader in Engineering Education, Top 10 of Online College Professor of the Year, and Outstanding Early Career in Education winner.