

# ICCWS 2018

## 13th International Conference on Cyber Warfare and Security, Washington, USA

8 - 9 March 2018

### Mini Track on Cyber Warfare, Deterrence, Power and Decision Making

Mini Track Co Chairs: Dr. Prof. Jim Chen, DoD National Defense University U.S. Dr. Prof. Martti Lehto, University of Jyväskylä, Finland and Dr. Noam Ben-Asher, U.S. Army Research Laboratory



Without a better understanding of the unique features and characteristics of cyber warfare, it is hard to integrate cyber capabilities into the essential instruments of national power: diplomacy, information, military and economics (DIME). Hence, this mini-track examines the uniqueness of cyber warfare from varied perspectives with respect to its strategies, operations, tactics, and decision-making processes. It looks at the unique characteristics of cyber warfare and cyber operations. It examines the convergence of cyber warfare, electronic warfare, and information warfare. It scrutinizes the new capacities of armed forces with both the kinetic and non-kinetic use of force in cyberspace. It investigates cyber capabilities, cyber power, cyber deterrence, cyber warfare, and the relationship among them. It analyzes human cyber decision-making processes, which are backed up by advanced decision support tools and automated systems. It explores cognitive models and artificial intelligence as well as ways of utilizing such models in cyber warfare.

Topics may include, but are not limited to:

- Cyber strategy
- Cyber operations
- Cyber deterrence
- Cyber power
- Cyber capabilities
- Cyber deterrence
- Cyber warfare
- Cyber decision making



Dr. Jim Q. Chen is Professor of Cybersecurity in the College of Information and Cyberspace at the U.S. National Defense University (NDU). His expertise is in cybersecurity technology, cyber strategy, cyber warfare, and cognitive science. He has published widely on these topics. He is a recognized cyber security expert.



Martti Lehto is Professor of Cybersecurity in the University of Jyväskylä in the Faculty of Information Technology. He has over 30 years' experience as developer and leader of C4ISR Systems in Finnish Defence Forces. Now he is a Cyber security and Cyber defence researcher and teacher and also pedagogical leader of the Cyber Security MSc. program. He is also Adjunct Professor in National Defence University in Air and Cyber Warfare.



Dr. Noam Ben-Asher is a Senior ORAU researcher fellow at the Computational and Information Sciences Directorate, U.S. Army Research Laboratory. Before this position, Noam was a postdoctoral fellow at the Dynamic Decision Making Laboratory at Carnegie Mellon University and IBM Research. His primary interests lie at the intersection of cognitive science, decision science and human factors engineering, with a particular interest in usable security and cyber security decision making.

### Submission details

In the first instance a 300 word abstract is required, to be received by **17<sup>th</sup> August 2017**. Please read the guidelines at <http://www.academic-conferences.org/policies/abstract-guidelines-for-papers/>

Submissions must be made using the online submission form at

<http://www.academic-conferences.org/conferences/iccws/iccws-abstract-submission/>

If you have any questions about this track please email the mini track chair: [jim.chen@gc.ndu.edu](mailto:jim.chen@gc.ndu.edu); [martti.j.lehto@jyu.fi](mailto:martti.j.lehto@jyu.fi); [noam@noamba.com](mailto:noam@noamba.com)

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