

## ICCWS 2021

**16th International Conference on Cyber Warfare and Security**  
25-26 February 2021, Tennessee, USA

### Mini Track on Analytic and Behavioural Approaches for Cybersecurity Decisions

Mini Track Chairs: **Dr. Benjamin Yankson, Dr. Unal Tatar**, University at Albany - SUNY



The security of cyberspace is one of the most significant challenges of the modern internet era due to the complexity of technical and non-technical challenges. As the cyber environment is getting more integrated with the real world, the direct impact of cybersecurity incidents on the business is also heightened. Cyber risk has recently become one of the top global risks in terms of its economic implications for businesses. To mitigate cybersecurity risks, making well-informed, efficient, and effective decisions is crucial.

This session will focus on state-of-the-art research results and open research issues related to the decision making, risk, and resiliency analysis in both defensive and offensive cybersecurity operations at various levels of decision-making (i.e., tactical, operational, and strategic).

Topics of interest include, but are not limited to:

- Models of cybersecurity decision processes
- Metrics of cybersecurity maturity measurement
- Measurement of effectiveness and impact of cybersecurity decisions
- Cyber-risk and resiliency quantification methods and cyber-insurance
- Incentives for information sharing and cooperation
- Legal aspects of cybersecurity decision making
- Role and impact of artificial intelligence (AI) in cybersecurity
- Behavioral models of security and privacy
- Cyber threat modelling and analysis



**Dr. Unal Tatar** is currently an Assistant Professor of Cybersecurity at the College of Emergency Preparedness, Homeland Security, and Cybersecurity, University at Albany. He has 15+ years of cybersecurity experience of cybersecurity in government, industry and academia. He is the former coordinator of the National Computer Emergency Response Team of Turkey. Dr. Tatar's research is funded by NSF, NSA, DOD, and Society of Actuaries. Dr. Tatar holds a BSc degree in Computer Engineering, an MS degree in Cryptography and a Ph.D. in Engineering Management and Systems Engineering. His main topics of interest are cybersecurity risk management, cyber resiliency, cyber insurance, and blockchain.



**Dr. Benjamin Yankson** is an Assistant Professor of Cybersecurity at the College of Emergency Preparedness Homeland Security and Cybersecurity. He has over 15yrs experience in various technical leadership roles in Information Technology security within Healthcare and Education. He is the former Application Manager, Critical Care Information System for the province of Ontario's (CitiCall Ontario), Canada. Dr. Yankson holds a CompTIA Security+, a B.A degree in Information Technology, a master's degree in Information Technology Security (MITS), and a Ph.D. Computer Science. His current teaching and research work focuses on IoT Security, Cybersecurity Risk Management, Threat Risk Assessment (TRA), Security Auditing/Compliance, Digital Forensics, and Privacy.

### Submission Details

In the first instance a 300-350 word abstract is required, to be received by the **5th August 2020**. 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: [byankson@albany.edu](mailto:byankson@albany.edu) [utatar@albany.edu](mailto:utatar@albany.edu)  
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