



1st NATO-Industry workshop on Autonomous Cyber Defence

Location: Cranfield University, Central Bedfordshire, UK

Date: 19th March 2019 (09:30-16:00), with networking dinner on 18th March 2019

18th March NETWORKING DINNER

The evening before the workshop, you are welcome to join a networking dinner that will take place at the University's CMDC restaurant, from 7PM. Free drinks, £50 menu. Please register online.

19th March WORKSHOP AGENDA

In the morning of 19th March, delegates will be presented the rationale, current state of the art and challenges of autonomous cyber defence, as well as the results of NATO IST 152 RTG's work.

The afternoon is dedicated to listen to participants. Communications and one-to-one talks will help discussing hands-on needs and issues as well as defence, industries, security providers and academics' interest in engaging with autonomous cyber defence technology.

TIME	PRESENTER	TOPIC
09:00-09:30		<i>Welcome coffee</i>
09:30-09:35	Professor Paul Theron, Cranfield University, member of NATO IST-152 RTG	Opening of the workshop
09:35-09:45	Cranfield's Vice Chancellor, Professor Sir Peter Gregson, or SATM's Pro-Vice Chancellor, Professor Helen Atkinson	Word of welcome
09:45-10:05	Dr Alexander Kott, Chief scientist of the US Army Research Laboratory, Head of NATO IST-152 RTG	Keynote speech: AI in Cyber World: Irrational Exuberance and Practical Reality
10:05-10:25	Professor Paul Theron	Rationale, principles, challenges and roadmap of Autonomous Cyber Defence
10:25-10:45		<i>Coffee break</i>
10:45-11:05	Alessandro Guarino, StAG S.r.l., member of NATO IST- 152 RTG	Overview of the Autonomous Intelligent Cyber-defence Agent's Reference Architecture (AICARA)

11:05-11:25	Prof Benoit Leblanc, ENSC Bordeaux, member of NATO IST-152 RTG	Cognitive biases in human decision making and considerations for AICA agents
11:25-11:45	Dr Martin Drasar, Masaryk University Warsaw, member of NATO IST-152 RTG	Iterative parallel development of adversarial and defensive agents
11:45-12:00	All participants	Questions to IST-152 RTG members
12:00-13:00		<i>Lunch break</i>
13:00-13:15	Professor Marco Carvalho, Dean, College of Engineering and Science, Florida Institute of Technology	Resilient Multi-Agent Systems for Cyber Operations
13:15-13:30	Mr Neil Briscoombe, Science and Technology Principal (Innovation), Northrop Grumman UK Plc.	Dynamic Topic Modeling for Autonomy Human and Machine Teams in CSOC 3.0
13:30-13:45	Mr. Tim White, Head of Government Solutions, SparkCognition	Dynamics of Cyber Environment and AI Based Cyber Defense
13:45-14:00		<i>Short coffee break</i>
14:00-14:15	Dr Scott Lathrop, Cyber and Secure Autonomy, Soar Technology	Towards Autonomous Cyberspace Operations Through Unified Symbolic and Non-symbolic AI Approaches
14:15-14:30	Dr Paul Lociewicz, CSIAC, IST-152 member	Cyber Defense sets for Machine Learning
14:30-14:45		Remote participants' presentations / Debate
14:45-15:00	Dr. A. Selcuk, Uluagac, Asst. Professor, Director of Cyber-Physical Systems Security Lab, Florida International University	A Privacy-aware and Robust Continuous Authentication Framework against Insider Threats in Mission Critical Settings
15:00-15:15	Professor Paul Theron	Cranfield's Autonomous Cyber Defence research & technology cluster: Joining the challenge
15:15-15:55	All participants	Open debate: Overcoming challenges, building the technology & stakeholders' engagement
15:55-16:00	Dr Alexander Kott	Workshop closure and final word

REGISTRATION AND PRACTICAL INFORMATION

Register @ <https://www.cranfield.ac.uk/events/events-2019/1st-nato-industry-workshop-on-autonomous-cyber-defence>

Registration is required from:

- All individual participants and exhibitors (19th March workshop);
- All participants in the Networking Dinner (18th March evening).

Terms and conditions for participation as well as for potential exhibitors are detailed on this page.