2011 IEEE Symposium on Computational Intelligence for Security and Defense Applications

(CISDA 2011)

Paris, France
11 – 15 April 2011
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Friday, April 15

8:30 - 09:30

**S83: CISDA - Keynote**  
Chair: Slawo Wesolkowski

**Fuzzy Integration for Buried Landmine Detection**  
James Keller (University of Missouri, USA)

9:30 - 10:30

**S84: Computational Intelligence in Support of Maritime Operations**  
Chair: Marco Cococcioni (NATO Undersea Research Centre, Italy)

**Evaluating Goal Ordering Structures for Testing Harbour Security Policies** ........................................................... 1  
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Tom Flanagan (University of Calgary, Canada)  
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Michel Rixen (NATO Undersea Research Centre, Italy)

10:30 – 16:30

**PS13: CISDA - 2011**  
Poster Session

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Julien A. Vijverberg (Eindhoven University of Technology, The Netherlands)  
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Marcin Pilat (Nagoya University, Japan)
Sensor Network Management Using Multiobjective Evolutionary Optimization
Z. Sakr (University of Ottawa, Canada)
S. Wesolkowski (Defence R & D Canada, Canada)

11:00 - 12:00

S85: Radar-Based Object Detection and Tracking
Chair: Slawo Wesolkowski (DRDC, Canada)

Object Set Matching With an Evolutionary Algorithm
Andrew R. Buck (University of Missouri, USA)
James M. Keller (University of Missouri, USA)
Marjorie Skubic (University of Missouri, USA)
Marcin Detyniecki (Université Pierre et Marie Curie, France)
Thomas Baerecke (Université Pierre et Marie Curie, France)

Computation of Most Threatening Radar Trajectories Areas and Corridors based on Fast-Marching & Level Sets
F. Barbaresco (Thales Air Defence, France)

Critical Analysis of SFCW-GPR Data for Real Time Target Identification
Dharmendra Singh (Indian Institute of Technology Roorkee, India)
Shashi Kant Pandey (Indian Institute of Technology, Roorkee, India)
Maulik Jain (Indian Institute of Technology Roorkee, India)

14:00 – 16:00

S86: Tackling Complexity in Defence and Security
Chair: Irene Pestov (DRDC CORA, Canada)

Accelerating Common Operational Pictures through Network Consensus
Stephane Blouin (Defence R & D Canada, Canada)

Complex Decision Making Experimental Platform (CODEM): A Counter-Insurgency Scenario
Daniel Lafond (Defence R&D Canada, Canada)
Michel B. DuCharme (Defence R&D Canada, Canada)

High-dimensional Objective-based Data Farming
Fanchao Zeng (Nanyang Technological University, Singapore)
James Decraene (Nanyang Technological University, Singapore)
Malcolm Yoke Hean Low (Nanyang Technological University, Singapore)
Cai Wentong (Nanyang Technological University, Singapore)
Philip Hingston (Edith Cowan University, Australia)
Suiping Zhou (Teesside University, United Kingdom)

Motivating the Inclusion of Meteorological Indicators in the CTBT Feature-Space
Colin Bellinger (University of Ottawa, Canada)
Nathalie Japkowicz (University of Ottawa, Canada)

Multi-objective Evolutionary Optimization of a Military Air Transportation Fleet Mix with the Flexibility Objective
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Daniel J. Arndt (Dalhousie University, Canada)
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