

2025 IEEE Symposium on Computational Intelligence in Security, Defence and Biometrics (CISDB 2025)

**Trondheim, Norway
17-20 March 2025**



**IEEE Catalog Number: CFP256B1-POD
ISBN: 979-8-3315-0830-2**

**Copyright © 2025 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP256B1-POD
ISBN (Print-On-Demand):	979-8-3315-0830-2
ISBN (Online):	979-8-3315-0829-6

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of Contents

- 1 A Decentralized Greedy Assignment-Learning Spiking Neural Network-based Solution for A Perimeter Defense Problem.....1
Thousif P (Indian Institute of Science Bangalore); Shridhar Velhal (LTU); Suresh Sundaram (Indian Institute of Science); Narasimhan Sundararajan (Indian Institute of Science)*
- 3 Anonymization of Documents for Law Enforcement with Machine Learning.....7
Manuel Eberhardinger (Hochschule der Medien); Patrick Takenaka (Hochschule der Medien); Daniel Griebhaber (Stuttgart Media University); Johannes Maucher (Media University Stuttgart)*
- 5 Building Paths to Reduce Latency and Increase Resilience to Cyberattacks.....14
*Kevin Olenic (Brock University); Michael Dubé (University of Guelph); Sheridan Houghten (Brock University)**
- 6 Investigating the computation of smoothed deceptive routes in topographic terrains for agent-based simulation systems.....21
Luigi Souza (Federal University of Santa Maria); Thiago Rodrigues Silva Leão (Federal University of Santa Maria); Crhistopher Lenhard (Federal University of Santa Maria); EDISON PIGNATON DE FREITAS (Universidade Federal do Rio Grande do sul); Luis Alvaro de Lima Silva (Federal University of Santa Maria)*
- 8 A Class Incremental Learning Framework for DDoS Detection.....30
Eugenio Borrini (La Sapienza); Enrico De Santis (Dipartimento di Ingegneria dell'Informazione, Elettronica e Telecomunicazioni, Sapienza Università di Roma); Antonello Rizzi (University of Rome "La Sapienza")*
- 15 Enhancing Intrusion Detection Systems with representation methods: A comparative study.....39
Bruno Meyer (Federal University of Parana); Michele Nogueira (Department of Computer Science (UFMG)); Wagner Zola (Federal University of Parana); Aurora Pozo (Federal University of Paraná)*
- 17 Exploring the Effect of Dimensionality Reduction Techniques on Filtration Attacks.....46
Keremalp Durdabak (Dalhousie University); Nur Zincir-Heywood (Dalhousie University); Malcolm Heywood (Dalhousie University); Stephan Jou (OpenText); Maria Pospelova (OpenText); Hari M. Koduvely (OpenText); Asad Narayanan (OpenText)*
- 18 A Curriculum Learning Framework to Boost Object Detection of Unmanned Aerial Vehicles.....53
EMRE ASLAN (Rowan University); Gregory Ditzler (University of Arizona); Kyle Naddeo (Rowan University); Taha Bouhsine (Rowan University); Robi Polikar (Rowan University)*