

2022 International Conference on Cyber Warfare and Security (ICCWS 2022)

**Islamabad, Pakistan
7-8 December 2022**



**IEEE Catalog Number: CFP22V89-POD
ISBN: 978-1-6654-8940-9**

**Copyright © 2022 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:	CFP22V89-POD
ISBN (Print-On-Demand):	978-1-6654-8940-9
ISBN (Online):	978-1-6654-8939-3

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

A Comprehensive Review of Endpoint Security: Threats and Defenses.....	1
<i>Abu Kamruzzaman, Sadia Ismat, Joseph Brickley , Alvin Liu and Kutub Thakur</i>	
Implementation of Two Layered DLP Strategies.....	8
<i>Arsalan Paracha, Muhammad Sheeraz, Yuanyuan Chai, Saad Ahmad, Zubair Nasir Khan, Shah Hussain, Aftab Ul Haq and Muhammad Hanif Durad</i>	
Software Implementation of AES-128 Side Channel Attacks Based on Power Traces Decomposition	14
<i>Fanliang Hu and Feng Ni</i>	
Anonymity Preserving Secure Authentication for a Transparent Internet Voting Process	22
<i>Khan Farhan Rafat</i>	
Sequential Embedding-based Attentive (SEA) classifier for malware classification.....	28
<i>Muhammad Ahmed, Anam Qureshi, Jawwad Shamsi and Murk Marvi</i>	
Automating the Process of Developing Obfuscated Variants of PE Through ADOPE Software	36
<i>Muhammad Nouman Ahmed and Umm E Hanni Tayyab</i>	
A Knowledge Graph Based Framework for Integrated Network-Centric Warfare Strategies for Cyber-Physical-Social World.....	42
<i>Rauf Ahmed Shams Malick, Mir Murtaza and Khubaib Ahmed Qureshi</i>	
Generic Application Layer Features For IoT Devices Identification.....	49
<i>Sabeeha Tanveer, Muhammad Husnain, Habiba Akram, Syed Ghazanfar Abbas and Ghalib Shah</i>	
An MFCC-based Secure Framework for Voice Assistant Systems.....	57
<i>Syed Fahad Ahmed, Rabeea Jaffari, Moazzam Jawaid, Syed Saad Ahmed and Mir Shahnawaz Talpur</i>	
Forensic Data Analysis of Delivery and Transport Applications	62
<i>Syeda Sundus Zehra and Sana Qadir</i>	
Blockchain-based Security for Internet of Medical Things Application	69
<i>Taha Ramzan and Saima Zafar</i>	
Network Intrusion Detection for Smart Infrastructure using Multi-armed Bandit based Reinforcement Learning in Adversarial Environment	75
<i>Zain Ul Abideen Tariq, Emna Baccour, Aiman Erbad, Mohsen Guizan and Mounir Hamdi</i>	
Author Index	83