2019 Eighth International Conference on Emerging Security Technologies (EST 2019)

Colchester, United Kingdom 22 – 24 July 2019



IEEE Catalog Number: ISBN:

CFP1951K-POD 978-1-7281-5547-0

Copyright © 2019 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:
 CFP1951K-POD

 ISBN (Print-On-Demand):
 978-1-7281-5547-0

 ISBN (Online):
 978-1-7281-5546-3

ISSN: 2373-0374

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax:

E-mail: curran@proceedings.com Web: www.proceedings.com

(845) 758-2633



TABLE OF CONTENTS

Sequence Number	Paper Details
01	Further Heuristic Discussion on Two Countermeasures against Reaction Attacks on McEliece Cryptosystems with QCLDPC Codes ************************************
02	Benchmark of Visual SLAM Algorithms: ORB-SLAM2 vs RTAB-Map************************************
03	EvoFIT Facial Composite Images: a Detailed Assessment of Impact on Forensic Practitioners, Police Investigators, Victims, Witnesses, Offenders and the Media ************************************
04	Face Attributes and Detection of Drug Addicts """""", Sudarsini Tekkam Gnanasekar, Svetlana Yanushkevich
05	Detecting Thermal Face Signature Abnormalities ************************************
06	Risk Inference Models for Security Applications ************* \$ Jonathan Graf, Shawn Eastwood, Svetlana Yanushkevich, Reed Ferber
07	Hybrid Score- and Rank-level Fusion for Person Identification using Face and ECG Data******* * Thomas Truong, Jonathan Graf, Svetlana Yanushkevich
08	Mini-Block-Based Cipher Class for Physical Clone-Resistant Devices """""" (& Saleh Mulhem, Mouadh Ayache, Wael Adi
09	Multi-Metric Evaluation of Thermal-to-Visual Face Recognition (, Kenneth Lai, Svetlana Yanushkevich
10	An Efficient Hardware Design for Combined AES and AEGIS """""") (Amit Sardar, Bijoy Das, Dipanwita Roy Chowdhury
11	Real Time Object Detection, Tracking, and Distance and Motion Estimation Based on Deep Learning: Application to Smart Mobility ************************************
12	A Machine Learning Method For Sensor Authentication Using Hidden Markov Models ************************************

13	Spatio-Temporal Texture Features for Presentation Attack Detection in Biometric Systems ************************************
14	Usability of Skin Texture Biometrics for Mixed-Resolution Images "******++ Hamed Alsufyani, Sanaul Hoque, Farzin Deravi
15	Alphanumeric Glyphs Transformation Based on Shape Morphing: Context of Text Tattooing """"""", ' Audrey Ledoux, Bich Ngoc Dao, Paul Lahmi, Mickael Coustaty
16	Gaze-based Biometric Presentation Attack Detection for Users Wearing Tinted Glasses """", - Asad Ali, Nawal Alsufyani, Sanaul Hoque, Farzin Deravi
17	MAC-PHY Cross-layer Design for Secure Wireless Avionics Intra- Communications (Ramiro Samano
18	Two, Three and Four Dimensional BB84: A Comparative Analysis Based on C# Simulation ************************************
19	Investigating the Effect of Writer Style, Age and Gender on Natural Revocability Analysis in Handwritten Signature Biometrics ************************************
20	Secure Device Identification using Multidimensional Mapping """"% & Supriya Yadav, Gareth Howells
21	SortAlgo-Metrics: Identification of Cloud-Based Server Via a Simple Algorithmic Analysis "***********************************
22	Spreading Code Identification of Legal Drones in IoT Environment ************************************