

SECURWARE 2021

The Fifteenth International Conference on Emerging Security Information,
Systems and Technologies

November 14 - 18, 2021

Athens, Greece

SECURWARE 2021 Editors

Hans-Joachim Hof, INSicherheit - Ingolstadt Research Group Applied IT Security,
CARISSMA – Center of Automotive Research on Integrated Safety Systems,
Germany
Manuela Popescu, IARIA, USA/EU
Anders Fongen, Norwegian Defence University College, Norway

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2021) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed with permission by Curran Associates, Inc. (2023)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.org

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

Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

IT-Security Compliance for Home Offices Christoph Haar and Erik Buchmann	1
Identification of Automotive Digital Forensics Stakeholders Kevin Gomez Buquerin and Hans-Joachim Hof	8
Trust Management in Space Information Networks Anders Fongen	14
Boardgames as Security Awareness Improvement Tools Eszter Oroszi	19
Differential Privacy Approaches in a Clinical Trial Martin Leuckert and Antao Ming	24
Threat Level Assessment of Smart-Home Stakeholders Using EBIOS Risk Manager N'guessan Yves-Roland Douha, Doudou Fall, Yuzo Taenaka, and Youki Kadobayashi	31
Software Based Glitching Detection Jakob Low, Dominik Bayerl, and Hans-Joachim Hof	41
Quantifying Information Leakage of Probabilistic Programs Using the PRISM Model Checker Khayyam Salehi, Ali A. Noroozi, and Sepehr Amir-Mohammadian	47
Maverick: Detecting Network Configuration and Control Plane Bugs through Structural Outlierness Vasudevan Nagendra, Abhishek Pokala, Arani Bhattacharya, and Samir Das	53
Cost-benefit Analysis Toward Designing Efficient Education Programs for Household Security N'guessan Yves-Roland Douha, Bernard Ousmane Sane, Masahiro Sasabe, Doudou Fall, Yuzo Taenaka, and Youki Kadobayashi	59
Cryptanalysis of RSA with Moduli N=p^r q Based on Coppersmith Method: A survey Simeng Yuan, Wei Yu, Kunpeng Wang, and Xiuxiu Li	69
Securing Runtime Memory via MMU Manipulation Marinos Tsantekidis and Vassilis Prevelakis	76
Adaptive User Profiling with Online Incremental Machine Learning for Security Information and Event Management Dilli P. Sharma, Barjinder Kaur, Farzaneh Shoeleh, Masoud Erfani, Duc-Phong Le, Arash Habibi Lashkari, and Ali A. Ghorbani	82

