

# Contents

## InterIoT

Comparative Analysis of Opportunistic Communication Technologies . . . . .	3
<i>Jens Dede and Anna Förster</i>	
Technical Overview of F-Interop. . . . .	11
<i>Rémy Leone, Federico Sismondi, Thomas Watteyne, and César Viho</i>	
BMFA: Bi-Directional Multicast Forwarding Algorithm for RPL-based 6LoWPANs . . . . .	18
<i>Georgios Z. Papadopoulos, Andreas Georgallides, Theo Tryfonas, and George Oikonomou</i>	
Synchronization Abstractions and Separation of Concerns as Key Aspects to the Interoperability in IoT. . . . .	26
<i>Marcio Ferreira Moreno, Renato Cerqueira, and Sérgio Colcher</i>	
Providing Interoperability for Autonomic Control of Connected Devices . . . .	33
<i>François Aïssaoui, Guillaume Garzone, and Nicolas Seydoux</i>	
A Framework to Support Interoperability in IoT and Facilitate the Development and Deployment of Highly Distributed Cloud Applications . . . .	41
<i>Nikos Koutsouris, Apostolos Voulkidis, and Kostas Tsagkaris</i>	
F-Interop – Online Platform of Interoperability and Performance Tests for the Internet of Things . . . . .	49
<i>Sébastien Ziegler, Serge Fdida, Cesar Viho, and Thomas Watteyne</i>	
Guard Time Optimisation for Energy Efficiency in IEEE 802.15.4-2015 TSCH Links . . . . .	56
<i>Georgios Z. Papadopoulos, Alexandros Mavromatis, Xenofon Fafoutis, Robert Piechocki, Theo Tryfonas, and George Oikonomou</i>	

## SaSeIoT

On the Performance of Key Pre-distribution for RPL-Based IoT Networks . . .	67
<i>Ayman El Hajjar, George Roussos, and Maura Paterson</i>	
Formulating A Global Identifier Based on Actor Relationship for the Internet of Things . . . . .	79
<i>Ausama Majeed and Adil Al-Yasiri</i>	

Framework of Cyber Attack Attribution Based on Threat Intelligence . . . . .	92
<i>Li Qiang, Yang Zeming, Liu Baoxu, Jiang Zhengwei, and Yan Jian</i>	
UML Modeling of Cross-Layer Attack in Wireless Sensor Networks . . . . .	104
<i>Jian Wang, Abraham O. Fapojuwo, Chen Zhang, and Huiting Tan</i>	
Adoption of Miniaturized Safety-Related Systems for Industrial Internet-of-Things Applications . . . . .	116
<i>Ali Hayek, Samer Telawi, Christian Bieler, and Josef Börcsök</i>	
Identifying DOS and DDOS Attack Origin: IP Traceback Methods Comparison and Evaluation for IoT . . . . .	127
<i>Brian Cusack, Zhuang Tian, and Ar Kar Kyaw</i>	
<b>Author Index . . . . .</b>	<b>139</b>

Interoperability, Safety and Security in IoT  
Second International Conference, InterIoT 2016 and  
Third International Conference, SaSeIoT 2016, Paris,  
France, October 26-27, 2016, Revised Selected Papers  
Mitton, N.; Chaouchi, H.; Noel, Th.; Watteyne, Th.;  
Gabillon, A.; Capolsini, P. (Eds.)  
2017, X, 139 p. 46 illus., Softcover  
ISBN: 978-3-319-52726-0