

ICSNC 2019

The Fourteenth International Conference on Systems and Networks Communications

November 24 - 28, 2019

Valencia, Spain

ICSNC 2019 Editors

Eugen Borcoci, University Politehnica of Bucarest, Romania

Jorge Cobb, The University of Texas at Dallas, USA

Lina Alfantoukh, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi

Arabia

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© (2019) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed with permission by Curran Associates, Inc. (2020)

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

From Modelling to Designing: Streaming Network for Multi Tenant Digital Twin Platforms Christoph Schranz, Mathias Schmoigl, and Felix Strohmeier	1
Stabilizing Voronoi Diagrams for Sensor Networks Jorge Cobb	7
Delay Optimization for URLLC in Software Defined Networks: A Case Study on Platooning Muge Erel-Ozcevik, Berk Canberk, Cagri Gungor, and Yesim Bayramli	17
Genetic Algorithm for Time-Effective IoT Service Function Placement Arvind Kalyan	23
Multiple Conditions-aware Dynamic Switch Migration in SDN Large Area Networks Eugen Borcoci, Silviu - Gabriel Topoloi, and Serban Georgica Obreja	28
DCM+ for Enhancing Performance in Mobile and Wireless Networks Rushdi Hamamreh and Derar Khader	37
Basic Concepts of Buried Wireless Sensor under Ballasted Layer Nagateru Iwasawa, Satoko Ryuo, Koki Iwamoto, Nariya Iwaki, Akio Hada, and Akiko Kono	43
Performance Measuring Test Results of 920MHz Band Wireless Sensor Network in Buried Condition Nariya Iwaki, Nagateru Iwasawa, and Satoko Ryuo	47
Genetic Algorithm For LoRa Transmission Parameter Selection Aghiles Djoudi, Rafik Zitouni, Nawel Zangar, and Laurent George	53
Rating Convergence Measurement in Trust-based Multi-Stakeholder Consensus Decision-Making Lina Alfantoukh and Abdullah Alzeer	55
A Survey in Multi-stakeholder Decision-Making based on Trust and Risk Lina Alfantoukh and Maha Aleid	61
Blockchain-based Decentralized KYC (Know-Your-Customer) Syed Azhar Hussain and Dr. Zeeshan-ul-hassan Usmani	67