SMART 2019

The Eighth International Conference on Smart Cities, Systems, Devices and Technologies

July 28 – August 2, 2019

Nice, France

SMART 2019 Editors

Lasse Berntzen, University of South-Eastern Norway, 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© (2019) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed with permission by Curran Associates, Inc. (2019)

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

Design of Non-Destructive Evaluation Robot Using Magnetic Flux Leakage for Main Water Pipe 1
Jaekyu An, Soeun Son, Jongho Bae, Yong Sub Kwon, Eui-Jung Jung, and Goobong Chung

Sequencing Intelligent Components Through Releases as a Risk Reduction Strategy: a Smart-city Example 6
Pablo Valenzuela-Toledo and Carlos Cares

A Strategy for Drone Traffic Planning - Dynamic Flight-paths for Drones in Smart Cities 12
Lasse Berntzen, Adrian Florea, Cristian Molder, and Noureddine Bouhmala

Citizen Participation Through Digital Platforms: the Challenging Question of Data Processing for Cities. 19
Noemie Lago, Marianne Durieux, Jean-Alexandre Pouleur, Chantal Scoubeau, Catherine Elsen, and Clementine Schelings

WiFi and LoRa Energy Consumption Comparison in IoT ESP 32/ SX1278 Devices 26
Laura Garcia, Jose M. Jimenez, Jaime Lloret, and Pascal Lorenz

Predicting Incidents of Crime Through LSTM Neural Networks in Smart City Domain 32
Ulises M. Ramirez-Alcocer, Edgar Tello-Leal, and Jonathan A. Mata-Torres