# Contents

## Pervasive Computing and Smart Applications

Acting as a Trustee for Internet of Agents in the Absence of Explicit Feedback ........................................... 3  
*Abdullah Aref and Thomas Tran*

Integrating Access Control Obligations in the Session Initiation Protocol for Pervasive Computing Environments .......................................................... 24  
*Hassan Sharghi and Ramiro Liscano*

Privacy Preserving Discovery of Nearby-Friends ............................... 41  
*Maryam Hezaveh and Carlisle Adams*

AHL: Model-Driven Engineering of Android Applications with BLE Peripherals .................................................. 56  
*Pedram Veisi and Eleni Stroulia*

## Security, Privacy and Trust

Insider Threat Likelihood Assessment for Flexible Access Control ...... 77  
*Sofiene Boulares, Kamel Adi, and Luigi Logrippo*

Compliance Verification Algorithm for Computer Systems Security Policies .......................................................... 96  
*Liviu Pene, Lamia Hamza, and Kamel Adi*

*Amir Eaman, Bahman Sistany, and Amy Felty*

A Supervised Approach for Spam Detection Using Text-Based Semantic Representation .................................................. 136  
*Nadjate Saidani, Kamel Adi, and Mouhand Said Allili*

## Process Modeling and Adaptation

Activity-based Process Integration in Healthcare with the User Requirements Notation .................................................. 151  
*Malak Baslyman, Basmah Almoaber, Daniel Amyot, and El Mostafa Bouattane*
A Business Process Re-Engineering Approach to Transform BPMN Models to Software Artifacts .................................................. 170

Javier Gonzalez-Huerta, Anis Boubaker, and Hafedh Mili

Evaluating the Potential of Technology in Justice Systems Using Goal Modeling ....................................................... 185

Sanaa Alwidian, Daniel Amyot, and Gilbert Babin

Data Analytics and Machine Learning

An OLAP Rule Environment for Reactive Performance Monitoring. ........ 205

Katherine Chengli and Liam Peyton

Supervised Methods to Support Online Scientific Data Triage. ............... 213

Hayda Almeida, Marc Queudot, Leila Kosseim, and Marie-Jean Meurs

A New Scalable and Performance-Enhancing Bootstrap Aggregating Scheme for Variables Selection: Taking Real-World Web Services Resources as a Case .................................................. 222

Choukri Djellali and Mehdi Adda

Towards an Adaptive Learning Framework for MOOCs. ...................... 236

Soufiane Ardchir, Mohamed Amine Talhaoui, and Mohamed Azzouazi

E-Health and E-Commerce

A Virtual Patient Navigation Application for Lung Cancer Assessment Patients. .................................................. 255


Responsiveness to Persuasive Strategies at the Workplace: A Case Study. .... 273

Humu-Haida Selassie, Kiemente Oyibo, and Julita Vassileva

E-Payment Plan: A Conditional Multi-payment Scheme Based on User Personalization and Plan Agreement ............................ 285

Ghada El Haddad, Hicham Hage, and Esma Aïmeur

Reflex-SMAS, a Complex Adaptive System: An Empirical Evaluation. ....... 300

Hicham Assoudi and Hakim Lounis

Author Index .......................................................... 319
E-Technologies: Embracing the Internet of Things
7th International Conference, MCETECH 2017, Ottawa, ON, Canada, May 17-19, 2017, Proceedings
Aïmeur, E.; Ruhi, U.; Weiss, M. (Eds.)
2017, XII, 319 p. 80 illus., Softcover
ISBN: 978-3-319-59040-0