IEEE Services Session 1 - Cloud and Data Engineering

Location Data Analytics for Space Management ................................................................. 1
  David Caicedo and Ashish Pandharipande

Cloud Strife: Expanding the Horizons of Cloud Gaming Services ........................................ 9
  Joseph Doyle, Syed Islam, Rabih Bashroush, and Donal O'Mahony

Extracting Patterns and Variations in Air Quality of Four Tier I Cities in India .......................... 17
  Alka Yadav and Durga Toshniwal

IEEE Services Session 2 - Software Engineering In/For Cloud

Engineering Scalable, Secure, Multi-Tenant Cloud for Healthcare Data ............................... 21
  Daniel J. Dean, Rohit Ranchal, Yu Gu, Anca Sailer, Shakil Khan, Kirk Beaty,
  Senthil Bakthavachalam, Yichong Yu, Yaoping Ruan, and Paul Bastide

Models@runtime for Monitoring Cloud Services in Google App Engine ................................ 30
  Silvia Abrahão and Emilio Insfran

Docker2RDF: Lifting the Docker Registry Hub into RDF ..................................................... 36
  Ahmed Ben Ayed, Julien Subercaze, Frederique Laforest, Tarak Chaari,
  Wajdi Louati, and Ahmed Hadj Kacem
IEEE Services Session 3 - Smart Services and IoT

Secure-EPCIS: Addressing Security Issues in EPCIS for IoT Applications ........................................40
Sungpil Woo, Jaehee Ha, Jaewook Byun, Kiwoong Kwon, Yalew Tolcha,
Daeyoung Kang, Hoang Minh Nguyen, Myungchul Kim, and Daeyoung Kim

Wearable IoT Data Architecture ........................................................................................................44
Richard K. Lomotey, Joseph Pry, Sumanth Sriramouju, Emmanuel Kaku,
and Ralph Deters

Agent-Centred Approach for Assuring Ethics in Dependable Service Systems ................................51
Irfan Šljivo, Elena Lisova, and Sara Afshar

IEEE Services Session 4 - Software Service Engineering

gUML: Reasoning about Energy at Design Time by Extending UML
Deployment Diagrams with Data Centre Contextual Information .................................................59
Nigar Jebraeil, Adel Noureddine, Joseph Doyle, Syed Islam, and Rabih Bashroush

RE2SEP: A Two-Phases Pattern-based Paradigm for Software Service Engineering ........................................67
Xiaofei Xu, Ruilin Liu, Zhongjie Wang, Zhiying Tu, and Hanchuan Xu

Adding Support for Theory in Open Science Big Data ........................................................................71
John A. Miller, Hao Peng, and Michael E. Cotterell

Improving Cloud Computing Virtual Machines Balancing through Hosts
and Virtual Machines Similarities ..................................................................................................76
Gabriel Beims Bräscher, Rafael Weingärtner, and Carlos Becker Westphall

The Scoring Matrix Generation Method and Recommendation Algorithm
in P2P Lending .................................................................................................................................86
Yanmei Zhang, Xiao Geng, and Hengyue Jia

Blockchain-Based System for Secure Data Storage with Private Keyword Search .............................................90
Hoang Giang Do and Wee Keong Ng

Provenance-Based Analytics Services for Access Control Policies .................................................94
Elisa Bertino, Amani Abu Jabal, Seraphin Calo, Christian Makaya,
Maroun Touma, Dinesh Verma, and Christopher Williams

AUSOM: Autonomic Service-Oriented Middleware for IoT-Based Systems .....................................102
Umesh Bellur, Nanjangud C. Narendra, and Swarup Kumar Mohalik

A Semantic-Enabled Framework for Future Internet of Things Applications ..................................106
Umesh Bellur, Pankesh Patel, Saurabh Chauhan, and Yongrui Qin

Comprehensive Evaluation of Urban Sustainable Innovation Ability Based
on Factor Analysis Method .............................................................................................................114
Xin-Nan Li, Liang-Jie Zhang, Huan Chen, and Chun-Xiao Xing
Towards a Visualization Framework for Service Selection in Cloud e-Marketplaces

Azubuike Ezenwoke, Olawande Daramola, and Matthew Adigun

Author Index