Contents

Context-Awareness and Autonomy Paradigms

Studying Node Cooperation in Reputation Based Packet Forwarding
Within Mobile Ad Hoc Networks ............................................. 3
   Sara Berri, Vineeth Varma, Samson Lasaulce,
   Mohammed Said Radjef, and Jamal Daafouz

Routing Game on the Line: The Case of Multi-players .................. 14
   Abdelillah Karouit, Majed Haddad, Eitan Altman,
   and Moulay Abdellatif Lmater

QoS-Aware Tactical Power Control for 5G Networks .................... 25
   Hajar El Hammouti, Essaid Sabir, and Hamidou Tembine

A Game Theoretic Approach Against the Greedy Behavior
in MAC IEEE 802.11 ............................................................. 38
   Mohammed-Alamine El Houssaini, Abdessadek Aaroud,
   Ali El Hore, and Jalel Ben-Othman

Leveraging User Intuition to Predict Item Popularity in Social Networks . . . . 48
   Nada Sbihi, Ihsane Gryech, and Mounir Ghogho

Quality of Experience in HTTP Adaptive Video Streaming Systems . . . . 56
   Zakaria Ye, Rachid Elazouzi, and Tania Jiménez

Community Detection Through Topic Modeling in Social Networks ..... 70
   Imane Tamimi, El Khadir Lamrani, and Mohamed El Kamili

A Formal Framework for Adaptation ............................................. 81
   Anne Marie Amja, Abdel Obaid, Hafedh Mili, and Zahi Jarir

A Comprehensive Study of Intelligent Transportation System
Architectures for Road Congestion Avoidance .......................... 95
   Sara El Hamdani and Nabil Benamar

Enhancing Security in Optimized Link State Routing Protocol
for Mobile Ad Hoc Networks .................................................. 107
   Houda Moudni, Mohamed Er-rouidi, Hassan Faouzi,
   Hicham Mouncif, and Benachir El Hadadi

A New Data Forwarding Scheme for DTNs Based on Coalition Game .... 117
   Youness Larabi, Khalil Ibrahimi, and Nabil Benamar
Impact of Link Lifetime on QoS in Mobile Ad-Hoc Networks .......................... 127
Nabil Mesbahi and Hamza Dahmouni

Mobile Edge Networking and Virtualization

A Multi-broker Cloud Architecture for the Purpose of Large Scale Sensing Applications Development ................................................................. 141
Soumaya Bel Hadj Youssef, Slim Rekhis, and Noureddine Boudriga

A Simulation Framework for IT Governance in the Context of Corporate Relocation ................................................................. 154
Rabii El Ghorfi, Mohamed El Aroussi, Mohamed Ouadou, and Driss Aboutajdine

NGN Management with NGOSS Framework-Based IMS Use Case .................. 166
B. Raouyane, S. Khairi, I. Haddar, and M. Bellafkih

Migration from Web Services to Cloud Services ........................................... 179
Hassina Nacer, Kada Baghdad Bey, and Nabil Djebari

Improving Attack Graph Scalability for the Cloud Through SDN-Based Decomposition and Parallel Processing ............................................ 193
Oussama Mjihil, Dijiang Huang, and Abdelkrim Haqiq

Performance Analysis of Intrusion Detection Systems in Cloud-Based Systems ................................................................. 206
Rachid Cherkaoui, Mostapha Zbakh, An Braeken, and Abdellah Touhafi

Towards Optimizing the Usability of Homomorphic Encryption in Cloud-Based Medical Image Processing .................................................. 214
Mbarek Marwan, Ali Kartit, and Hassan Ouahmane

A Verifiable Secret Sharing Approach for Secure MultiCloud Storage .......... 225
Kamal Benzekki, Abdellam El Fergougui, and Abdelbaki Elbelrhit Elalaoui

A Priority Based Task Scheduling in Cloud Computing Using a Hybrid MCDM Model ................................................................. 235
Hicham Ben Alla, Said Ben Alla, and Abdellah Ezzati

A Novel Approach for Security in Cloud-Based Medical Image Storage Using Segmentation .................................................. 247
Mbarek Marwan, Ali Kartit, and Hassan Ouahmane
Compact Dual-Band CPW-Fed Patch Antenna for 2.45/5.80 GHz RFID Applications. ................................................................. 380
Mohamed Tarbouch, Abdelkebir El Amri, and Hanae Terchoune

MRA*: Parallel and Distributed Path in Large-Scale Graph Using MapReduce-A* Based Approach ........................................... 390
Wilfried Yves Hamilton Adoni, Tarik Nahhal, Brahim Aghezzaf, and Abdelatif Elbyed

Saleh Bouarafa, Rachid Saadane, Moulay Driss Rahmani, and Driss Aboutajdine

Toward a New Extension of IPv6 Addressing to Connect Non IP Objects .......................................................... 411
Ali El Ksimi, Cherkaoui Leghris, and Faddoul Khoukhi

Enablers, Challenges and Applications

Channel Coherence Classification with Frame-Shifting in Massive MIMO Systems ......................................................... 425
Ahmad Abboud, Oussama Habachi, Ali Jaber, Jean-Pierre Cances, and Vahid Meghdadi

Spectral Efficiency Analysis of Two-Way Massive MIMO Full-Duplex Relay Systems with Direct Link .................................. 438
Houda Chafnaji

Robust Trajectory Planning for Robotic Communications Under Fading Channels ......................................................... 450
Daniel Bonilla Licea, Vineeth S. Varma, Samson Lasaulce, Jamal Daafouz, Mounir Ghogho, and Des McLernon

Performance of Enhanced LTE OTDOA Positioning Approach Through Nakagami-\(m\) Fading Channel ................................ 461
Ilham El Mourabit, Abdelmajid Badri, Aicha Sahel, and Abdennaceur Baghdad

Chaotic ZKP Based Authentication and Key Distribution Scheme in Environmental Monitoring CPS .............................. 472
Wided Boubakri, Walid Abdallah, and Noureddine Boudriga

Implementation and Performance Evaluation of Network Intrusion Detection Systems .................................................. 484
Mohammed Saber, Mohammed Ghaouth Belkasi, Sara Chadli, and Mohamed Emharraf