

Table of Contents

Building a House of Cards: On the Intrinsic Challenges of Evolving Communication Standards <i>Jean-Charles Gregoire</i>	1
Secure User Tasks Distribution in Grid Systems <i>Maxim Kalinin, Artem Konoplev, Dmitry Moskvina, Alexander Pechenkin, and Dmitry Zegzhda</i>	7
Analysis of Scheduling Algorithms with Migration Strategies in Distributed Systems <i>Francisca Aparecida P. Pinto, Chesley B. Chaves, Lucas G. Leite, Francisco Herbert L. Vasconcelos, and Giovanni C. Barroso</i>	12
A Cloud-based Multimedia Function <i>Jean-Charles Gregoire and Mohamed Amziab</i>	18
Secure Heterogeneous Cloud Platform for Scientific Computing <i>Alexey Lukashin and Vladimir Zaborovsky</i>	24
An Architecture for Risk Analysis in Cloud <i>Paulo Silva, Carlos Westphall, Carla Westphall, Mauro Mattos, and Daniel Santos</i>	29
MEDIACTIF - A Dynamic, Centralized and Real-time Digital Signage System for Smooth Pedestrian Flow Control with Arbitrary Topologies <i>Samuel Ben Hamou, Thierry Simonnet, and Jacques Angele</i>	34
System Design Artifacts for Resilient Identification and Authentication Infrastructures <i>Diego Kreutz, Oleksandr Malichevskyy, Eduardo Feitosa, Kaio Barbosa, and Hugo Cunha</i>	41
Design and Implementation of an Interoperable and Extensible Smart Home Semantic Architecture using Smart-M3 and SOA <i>Haitham Hamza, Enas Ashraf, Azza Nabih, Mahmoud Abdallah, Ahmed Gamaleldin, Alfredo D'Elia, Hadeal Ismail, Shourok Alaa, Kamilia Hosny, Aya Khattab, and Ahmed Attallah</i>	48
Theoretical Suggestion of Policy-based Wide Area Network Management System <i>Kazuya Odagiri, Shogo Shimizu, and Naohiro Ishii</i>	54
Multi-controller Scalability in Multi-domain Content Aware Networks Management <i>Eugen Borcoci, Mihai Constantinescu, and Marius Vochin</i>	62
Analytical Evaluation of Call Admission Control for SFR-Based LTE Systems <i>Seung-Yeon Kim, Hyong-Woo Lee, and Choong-Ho Cho</i>	69
New IPv6 Identification Paradigm: Spreading of Addresses Over Time	74

An Improved Hybrid Scheduler for WiMAX and its Performance Evaluation <i>Anju Lata Yadav, Prakash D. Vyavahare, and Prashant P. Bansod</i>	84
Meshed Tree Protocol for Faster Convergence in Switched Networks <i>Kuhu Sharma, Bruce Hartpence, Bill Stackpole, Daryl Johnson, and Nirmala Shenoy</i>	90
Measuring Quality and Penetration of IPv6 Services <i>Matej Gregr, Tomas Podermanski, and Miroslav Sveda</i>	96
On Service-Oriented Architectures for Mobile and Internet Applications <i>Sathiamoorthy Manoharan</i>	102
Collaborative Wireless Access to Mitigate Roaming Costs <i>Carlos Ballester Lafuente, Jean-Marc Seigneur, and Thibaud Lyon</i>	107
Traffic Offloading Improvements in Mobile Networks <i>Tao Zheng and Daqing Gu</i>	116
Security Issues in Cooperative MAC Protocols <i>Ki Hong Kim</i>	122
UBI-CA : A Clustering Algorithm for Ubiquitous Environments <i>Rim Helali, Nadia Ben Azzouna, and Khaled Ghedira</i>	127
Protocol Independent Multicast in OMNeT++ <i>Vladimir Vesely, Ondrej Rysavy, and Miroslav Sveda</i>	132