2013 RoEduNet International Conference 12th Edition: Networking in Education and Research

Constanta, Romania
26-28 September 2013

IEEE Catalog Number: CFP1389V-POD
ISBN: 978-1-4799-2601-5

TABLE OF CONTENTS

Network Architecture For The Development Of Scientific Computing Infrastructure In Moldova: Current State And Prospects Of The Evaluation 1
P. Bogatencov, G. Secrieru, N. Iliuha

A Managed Distributed Processing Pipeline With Storm And Mesos 7
D. Dena, M. Bucicoiu, M. Bardac

The Histogram Test For Randomness Assessment 13
K. Marton, M. Homan, A. Suciu, I. Rasa

An Agent-Based Approach For Building An Intrusion Detection System 18
I. Ionita, L. Ionita

Distribution Of Web Traffic Toward The Centralized Cloud Firewall System 24
I. Ivanovic

A Hybrid Approach To A Cryptanalysis Library 28
V. Ilie, L. Gheorghe, T. Popeea

KVM IO Profiling 34
A. Bujor, R. Dobre

Resource Allocation Heuristics For The miriaPOD Platform 40
S. Costea, M. Barbu, C. Muraru, R. Rughinis

A Comparison Of The Performance And Scalability Of Xen And KVM Hypervisors 46
S. Soriga, M. Barbulescu

Integrating Cisco Packet Tracer With Moodle Platform: Support For Teaching And Automatic Evaluation 52
D. Petcu, B. Iancu, A. Peculea, V. Dadarlat, E. Cebuc

Open Cloud Platform For Programming Embedded Systems 58
A. Radovici, I. Culic

Non-Stop Processing System: Minimizing Processing Power Costs In University Environments By Reusing Workstations 63
A. Juncu, L. Vasilescu, V. Dogaru, G. Milescu

Multi-Gigabit Intel-Based Software Routers 67
V. Galagan, O. Yurchenko, E. Preobrazhensky, P. Zhuravkov, M. Dombrougov

RO-14-ITIM Upgrade To EMI3 72
F. Felix, N. Diana, N. Jefte

ISS Monitoring Technologies And Status Report On Grid Activities 76
I. Stan, A. Sevcenco, S. Zgura, L. Irimia

Mobile Cloud Applications And Traceability 80
D. Popa, K. Boudaoud, M. Borda, M. Cremene

Energy Efficiency In Cloud Computing And Distributed Systems 84
M. Barbulescu, R. Grigoriu, G. Neculoiu, I. Halcu, V. Sandulescu, O. Niculescu-Faida, M. Marinescu, V. Marinescu

Preliminary Aspects In Order To Develop An Efficient Method For Cloud Implementation Standardization 89
R. Zota, L. Fratila

Monitoring LHCONE Traffic In Romanian Grid Sites 95
C. Pinzaru, V. Vraciu, P. Gasner, M. Subredu, O. Rusu

Data Transfer Optimization For The DFCTI Grid Site 100
M. Ciubancan, S. Constantinescu, M. Dulea

Adaptive Trust Management Protocol Based On Intrusion Detection For Wireless Sensor Networks 104
L. Gheorghe, R. Rughinis, R. Tataroiu

A Lightweight, Versatile Gateway Platform For Wireless Sensor Networks 111
A. Voinescu, D. Tudose, D. Dragomir

Realtime Information Propagation For A Distributed Traffic Information System 115
E. Necula, R. Necula, A. Iftene

Control System For Video Advertising Based On Raspberry Pi 121
V. Ionescu, F. Smaranda, A. Diaconu

Autoalignment Module For Free Space Laser Communications 125
C. Coman, R. Tataroiu, D. Rosner

Open Source Adaptive Backup Extensions For Enterprise Environment 131
F. Manolache, O. Rusu

Towards Socket-Level Network Header Caching 137
V. Dogaru, R. Iliescu, N. Tapus
Implementation Issues For Modified Dijkstra's And Floyd-Warshall Algorithms In OpenFlow 141
A. Furculita, M. Ulinic, A. Rus, V. Dobrota
Crowdsourcing Solution For Mobile Resource Consumption Analysis 147
R. Prejbeanu, A. Olteanu, N. Tapus
LiveVitals - A Low Power Approach To Remote Elder Monitoring 153
D. Tranca, D. Rosner, R. Tataroiu, D. Iorga
Performance Comparison Of On-Demand Routing Protocols For Mobile Ad Hoc Networks 159
M. Farooq, N. Tapus
Author Index