

2013 11th RoEduNet International Conference

**Sinaia, Romania
17 – 19 January 2013**



**IEEE Catalog Number: CFP1309K-PRT
ISBN: 978-1-4673-6114-9**

TABLE OF CONTENTS

| | |
|---|-----|
| A Security Framework for Mobile Cloud Applications..... | 1 |
| <i>D. Popa, M. Cremene, M. Borda, K. Boudaoud</i> | |
| Adaptive Query Algorithm for Location Oriented Applications..... | 5 |
| <i>D. Rizea, D. Tudose, A. Olteanu, N. Tapus</i> | |
| Remote Project Integration on an ATCA Platform | 10 |
| <i>O. Machidon, F. Sandu, A. Balica, D. Robu</i> | |
| Collating And Delivering Of Traffic Information In Intelligent Transportation Systems | 14 |
| <i>E. Necula, R. Necula, A. Iftene</i> | |
| Networking Architectures for Healthcare Wireless Sensor Networks: Comparison of Architectures Used for Remote Patient Monitoring | 21 |
| <i>A. Poenaru, C. Poenaru</i> | |
| AMRES Experience with Implementing the “Campus Best Practices” Model..... | 27 |
| <i>M. Bukvic</i> | |
| Regional Cross-Border Fiber Connections Implementation in Eastern Europe | 33 |
| <i>A. Andries, P. Bogatencov, O. Rusu, G. Secrieru</i> | |
| A Marker-Based Augmented Reality System for Mobile Devices | 40 |
| <i>A. Gherghina, A. Olteanu, N. Tapus</i> | |
| A Big Data Implementation based on Grid Computing | 46 |
| <i>D. Garlasu, V. Sandulescu, I. Halcu, G. Neculoiu, O. Grigoriu, M. Marinescu, V. Marinescu</i> | |
| RSSI-Based Localization in Low-cost 2.4GHz Wireless Networks..... | 50 |
| <i>S. Dinca, D. Tudose</i> | |
| Extended Control-Value Emotional Agent Based on Fuzzy Logic Approach | 55 |
| <i>H. Moga, F. Sandu, G. Danciu, R. Boboc, I. Constantinescu</i> | |
| Energy-Efficient and Fault Tolerant Methods for Message Delivery in Internet of Things..... | 63 |
| <i>F. Pop, N. Bessis</i> | |
| Converting Unstructured And Semi-Structured Data Into Knowledge..... | 69 |
| <i>O. Rusu, I. Halcu, O. Grigoriu, G. Neculoiu, V. Sandulescu, M. Marinescu, V. Marinescu</i> | |
| Data Mining Processing Using GRID Technologies..... | 73 |
| <i>M. Ciubancan, G. Neculoiu, O. Grigoriu, I. Halcu, V. Sandulescu, M. Marinescu, V. Marinescu</i> | |
| Integrating Of Structured, Semi-Structured And Unstructured Data In Natural And Build Environmental Engineering..... | 76 |
| <i>M. Barbulescu, R. Grigoriu, I. Halcu, G. Neculoiu, V. Sandulescu, M. Marinescu, V. Marinescu</i> | |
| Multicore Asynchronous Simulation of Spiking Neural Networks on the Grid | 80 |
| <i>M. Joldos, I. Muntean</i> | |
| A SLA-Based Method for Big-Data Transfers with Multi-Criteria Optimization Constraints for IaaS..... | 84 |
| <i>M. Nita, C. Chilipirea, C. Dobre, F. Pop</i> | |
| Performance Evaluation of Topology Control Algorithms that can be integrated into a Street Lighting Control Sensor Network..... | 90 |
| <i>L. Alexandru, P. Valentin</i> | |
| Nagios-Based Network Management for Android, Windows and Fedora Core Terminals Using Net-SNMP Agents | 94 |
| <i>S. Magda, A. Rus, V. Dobrota</i> | |
| Fault Tolerant Surveillance System Based on a Network of Mobile Devices..... | 100 |
| <i>A. Fasui, A. Olteanu, N. Tapus</i> | |
| WSN Management In A Multi-User Secure Context..... | 106 |
| <i>D. Dragomir, A. Voinescu, A. Draghici, N. Tapus</i> | |
| Optimizing Software Energy Usage Using Energy Profiling | 110 |
| <i>A. Voinescu, S. Petrescu, N. Tapus</i> | |
| Congestion Avoidance in Multimedia Networks | 115 |
| <i>C. Mancas, D. Mancas, M. Mocanu</i> | |
| Comparative Evaluation of Trust Mechanisms for Wireless Sensor Networks | 120 |
| <i>R. Vasileache, I. Gavrilă, A. Grigorescu, L. Gheorghe</i> | |
| Performance Evaluation and Optimizations of Hidden Vector Encryption | 125 |
| <i>D. Barbu, S. Costea, R. Rughinis</i> | |
| Qualitative Analysis Of Differential Privacy Applied Over Graph Structures | 131 |
| <i>S. Costea, M. Barbu, R. Rughinis</i> | |

| | |
|--|-----|
| Providing Data Anonymity for a Secure Database Infrastructure | 135 |
| <i>T. Popaea, A. Constantinescu, R. Rughinis</i> | |
| Analysis Of VoIP Encryption Performance Using Dedicated Hardware | 141 |
| <i>C. Cioponea, M. Bucicoiu, D. Rosner</i> | |
| Current Status Of The Wireless Local Area Networks In Romania | 145 |
| <i>V. Ionescu, F. Smaranda, A. Diaconu, I. Sima</i> | |
| Toward the Selection of an Enterprise Architecture Model for a Cloud Environment | 149 |
| <i>R. Zota, A. Fratila</i> | |
| Multimedia Remote Collaboration System | 155 |
| <i>F. Manolache, K. Niu, O. Rusu</i> | |
| Security and Complexity of a DNA-Based Cipher | 161 |
| <i>O. Tornea, M. Borda</i> | |
| Computing of Educational Paths based on the Euclidean Distance Ability-to-Learning Object | 166 |
| <i>H. Moga, F. Sandu, A. Stanca, O. Machidon, I. Constantinescu</i> | |
| Collaborative Learning Assistant for Android | 174 |
| <i>V. Zamfirache, A. Olteanu, N. Tapus</i> | |
| Simulations Framework for Network Congestion Avoidance Algorithms using the OMNeT++ IDE | 180 |
| <i>S. Buzura, V. Dadazlat, A. Peculea, B. Iancu, E. Cebuc</i> | |
| Importance of Open Source Contributions within the Educational Process | 188 |
| <i>V. Carbune, L. Vasilescu</i> | |
| Fuzzy Logic Approach for a Locomotion Interface Control | 193 |
| <i>R. Boboc, H. Moga, D. Talaba, G. Pana</i> | |
| Easy Attendance: Location-Based Authentication For Students Integrated With Moodle | 198 |
| <i>M. Bucicoiu, N. Tapus</i> | |
| Collaborative Genealogy Tree in the Cloud | 202 |
| <i>K. Marton, K. Nagy, A. Suciu</i> | |
| MeetYou – Social Networking on Android | 207 |
| <i>A. Siriteanu, A. Iftene</i> | |
| A Study on Open Access Framework | 213 |
| <i>E. Rusu</i> | |
| Author Index | |