Final Program

ANT 2012

The 3rd International Conference on Ambient Systems, Networks and Technologies

MobiWIS 2012

The 9th International Conference on Mobile Web Information Systems

August 27-29, 2012
Niagara Falls, Ontario, Canada

With Support of
Acadia University, Canada
Oxford Brookes University, UK

ELSEVIER   ACADIA UNIVERSITY   OXFORD BROOKES UNIVERSITY   NSERC CRSNG

Symposia and Workshops

ABMTRANS: The 1st International Workshop on Agent-based Mobility, Traffic and Transportation Models, Methodologies and Applications

ATP: The 1st International Symposium on Advances in Transaction Processing

AWS: The International Workshop on the Adaptation of Web Services

EmSeNs: The 2nd International Workshop on Emerging Technologies in Sensor Networks

FAMS: The 2nd International Symposium on Frontiers in Ambient and Mobile Systems

GCRE: The 2nd International Workshop on Green Computing and Renewable Energy

IST-AWSN: The 7th International Symposium on Intelligent Systems Techniques for Ad hoc and Wireless Sensor Networks

IUPT: The 2nd International Workshop on Internet of Ubiquitous and Pervasive Things

PASTH: The 2nd International Workshop on Pervasive and Ambient Applications, Systems and Technologies for Healthcare

RoboSense: The International Workshop on Cooperative Robots and Sensor Networks

SNIGM: The 2nd International Workshop on Sensor Networks for Intelligence Gathering and Monitoring

SUPE: The 3rd International Workshop on Service Discovery and Composition in Ubiquitous and Pervasive Environments

GradSym: Graduate Symposium

Monday, August 27, 2012

Registration and Tea/Coffee	09:30-10:30

Room: Brock Room

Opening	10:30 - 11:00

Opening Ceremony
Room: Niagara

Keynote I	11:00 - 12:15

Mobile Cloud and Green Computing
Ivan Stojmenovic, University of Ottawa, Canada

Session Chair: Muhammad Younas, Oxford Brookes University, UK
Room: Niagara

Lunch (Brock Room)	12:30 - 13:30

Room: Brock Room

Technical Sessions	13:30 - 15:00

ANT Session 1: Agent Systems, Intelligent Computing and Applications
Session Chair: Ramiro Liscano, University of Ontario, Canada
Room: Canadian A Room

Mobility and Information Flow: Percolation in a Multi-Agent Model
    Martine Collard, Phlippe Collard and Erick Stattner
S-CLAIM: An Agent-based Programming Language for AmI, A Smart-Room Case Study
    Valantina Baljak, Marius Tudor Benea, Amal El Fallah Seghrouchni, Cédric Herpson,
    Shinichi Honiden, Thi Thuy Nga Nguyen, Andrei Olaru, Ryo Shimizu, Kenji Tei and Susumu
    Toriumi.
Preference Order of Categorized Group Opinions Considering Grade of Decision Makers
    Yui Miyagi, Hayao Miyagi and Ichiko Kinjo
Resource Allocation for Multi-user Cognitive Radio Systems using Multi-agent Q-Learning
    Ahmed AZZOUNA, Amel GUEZMIL, Anis SAKLY, Abdellatif MTIBAA
On Inheritance in Conceptual Modeling for XML
    Jakub Kl´ımek, Martin Necasky

ANT Session 2: Autonomic Networks and Communications
Session Chair: Karim Djouani, French South African Inst. of Technology, South Africa
Room: Canadian B Room

Performance of IEEE 802.11 MAC in Underwater Wireless Channels
    Alan Farrell and Jun Peng
GFDA: Route Discovery Algorithms for On-demand Mobile Ad Hoc Routing Protocols
    Amal Alhosban, Ismail Ababneh, and Zaki Malik
Adaptive TDMA Slot Assignment Using Request Aggregation
    Abdulaziz Barnawi
An evaluation of MAC protocols running on a MANET network
    Luis Fernando Pedraza, Ingrid Patricia Paez, and Felipe Forero

MobiWIS Session 1: Mobile Cloud Services
Session Chair: Carsten Kleiner, University of Applied Sciences & Arts, Germany
Room: Victoria Room

Implementing Mobile Mashware Architecture: Downloadable Components as On-Demand Services
    Arto Salminen and Tommi Mikkonen
Governing Bot-as-a-Service in Sustainability Platforms – Issues and Approaches
    Hong-Linh Truong, Phu Phung and Schahram Dustdar
Privacy Preserving Profiling for Mobile Services
    Debmalya Biswas and Krishnamurthy Vidyasankar
Energy Efficiency on Location Based Applications in Mobile Cloud Computing: A Survey
    Xiao Ma, Yong Cui and Ivan Stojmenovic
Mobile Sensor Data Classification for Human Activity Recognition using MapReduce on Cloud
    Carlos David Paniagua Gomez, Huber Flores and Satish Narayana Srirama

ABMTRANS Workshop Session 1:
Session Chair: Ansar-Ul-Haque Yasar, Hasselt University, Belgium
Room: Niagara Room

Adapting and Extended ASPECS Methodology to Support the Goal Concept
    Mohamed Garoui and Belhassen Mazigh
A Conceptual Design of an Agent-based Interaction Mode for the Carpooling Application
    Sungjin Cho, Ansar-Ul-Haque Yasar, Luk Knapen, Tom Bellemans, Davy Janssens, Geert Wets
Simulation of Urban Trac Control: A Queue Model Approach
    D. Grether, A. Neumann, K. Nagel
Large-scale Agent-based Traffic Micro-simulation: Experiences with Model Refinement, Calibration, Validation and Application
    Yunjie Zhao and Adel W. Sadek
Analysis of the Co-routing Problem in Agent-based Carpooling Simulation
    Luk Knapen, Daniel Keren, Ansar-Ul-Haque Yasar, Sungjin Cho, Tom Bellemans, Davy
    Janssens, Geert Wets
Sociodynamic Discrete Choice on Networks in Space: Role of Utility Parameters and Connectivity in Emergent Outcomes
    Elenna R. Dugundji, László Gulyás

ATP Symposium
Session Chair: Marta Rukoz, Universite Paris Ouest Nanterre La Defense, France
Room: King George Room

FACETA: Checkpointing for Transactional Composite Web Service Execution based on Petri-Nets
    Marta Rukoz, Yudith Cardinale, Rafael Angarit
A Family of Test Criteria for Web Services Transactions
    Rubén Casado, Javier Tuya, Muhammad Younas
A Non-Chronological Backtracking Unfolding Algorithm for Transactional Web Service Composition
    Eduardo Blanco, Yudith Cardinale, Mar´ıa-Esther Vidal
A Performance Evaluation of Preference Evaluation Techniques in Real High Dimensional Database
    Ali A. Alwan, Hamidah Ibrahima, Tan C. Yip, Nur Izura Udzir, Fatimah Sidi

A Twitter-Based Weighted Reputation System
Mohammad Jeragh, Eman Aldwaisan and Eman Alquraishi

Tea/Coffee   **15:00 - 15:30**

Room: Brock Room

Technical Sessions   **15:30 - 17:00**

ANT Session 3: Data Management and Services
Session Chair: Mark Roantree, Dublin City University, Ireland
Room: Canadian A Room

A Data Cube Model for Analysis of High Volumes of Ambient Data
    Hao Gui and Mark Roantree
Enhanced New User Recommendations based on Quantitative Association Rule Mining
    Shweta Tyagi and Kamal K. Bharadwaj
An OWL 2-Based Knowledge Platform Combining the Social and Semantic Webs for an
Ambient Childhood Obesity Prevention System
    Jinan El-Hachem, Arash Shaban-Nejad, Volker Haarslev, Laurette Dubé, David Buckeridge
Optimization and Refinement of XML Schema Inference Approaches
    Michal Klempa, Jakub Starka and Irena Mlynkova
Managing Complex Business Services in Heterogeneous eBusiness Ecosystems – Aspect-
based Research Assessment
    O. Urikova, I. Ivanochko, N. Kryvinska, P. Zinterhof, C. Strauss

ANT Session 4: Emerging Networking, Tracking and Sensing Technologies I
Session Chair: Frank Comeau, St. Francis Xavier University, Canada
Room: Canadian B Room

Ultrasonic Non-Destructive Testing (NDT) Using Wireless Sensor Networks
    Ahmad El Kouche and Hossam Hassanein
A Novel Multicast Algorithm for Collaborative Multimedia Applications in Heterogeneous
Networks
    Abdelfettah Belghith, Mohamed Aissa, and Adel Ben Mnaouer
Real-time Video Segmentation using Student's t Mixture Model
    Dibyendu Mukherjee and Q. M. Jonathan Wu
New Strategies and Approaches for Efficient Overlay Multicast Routing
    Adel Ben Mnaouer, Abdelfettah Belghith, and Mohamed Aissa
Information Ubiquity in Austere Locations
    Joseph Loyall, Matthew Gillen, Jeffrey Cleveland, Kyle Usbeck, Joshua Sterling, Richard
    Newkirk and Ralph Kohler

MobiWIS Session 2: Context-awareness and Location-based Services
Session Chair: Maxime Wack, Universite de Technologie de Belfort-Montbeliard, France
Room: Victoria Room

A Geo-Location Context-Aware Mobile Learning System with Adaptive Correlation Computing
Methods
    Nagato Kasaki, Shuichi Kurabayashi and Yasushi Kiyoki
Building Location-Aware Web with SALT and Webnear.me
    Fabio Magagna, Basil Hess and Juliana Sutanto
A Multi-Criteria Approach for Web Service Discovery
    Raja Ben Lakhal and Walid Chainbi

FallAlarm: Smart Phone Based Fall Detecting and Positioning System
    Zhongtang Zhao, Yiqiang Chen, Shuangquan Wang and Zhenyu Chen
Collective Discovery of Geographic Locations of Frequently Photographed Objects Only using the Metadata of Digital Photographs
    Masao Kubo, Shinichirou Nakayama and Hiroshi Sato

ABMTRANS Workshop Session 2:
Session Chair: Session Chair: Ansar-Ul-Haque Yasar, Hasselt University, Belgium
Room: Niagara Room

Exploiting Graph-theoretic Tools for Matching and Partitioning of Agent Population in an Agent-based Model for Traffic and Transportation Applications
    Daniel Kerena, Ansar-Ul-Haque Yasar, Luk Knapen, Sungjin Cho,Tom Bellemans, Davy Janssens, Geert Wets, Assaf Schuster, Izchak Sharfman
Seoul activity-based model: An Application of Feathers Solutions to Seoul Metropolitan Area
    Won Do Lee, Sungjin Cho, Tom Bellemans, Davy Janssens, Geert Wets, Keechoo Choi, Chang-Hyeon Joh
Costs and Gains of Smart Charging Electric Vehicles to Provide Regulation Services
    Daniel Freund, Marco Lutzenberger, Sahin Albayrak
An Agent-Based Model to Evaluate Carpooling at Large Manufacturing Plants
    Tom Bellemans, Sebastian Bothe, Sungjin Cho, Fosca Giannotti, Davy Janssens, Luk Knapen, Christine Korner, Michael May, Mirco Nanni, Dino Pedreschi, Hendrik Stange, Roberto Trasarti, Ansar-Ul-Haque Yasar, Geert Wets
Agent-based space-time discrete simulation of urban traffic including bicycles
    Jelena Vasic, Heather J. Ruskin
Agents Cut Emissions On how a Multi-Agent System Contributes to a more Sustainable Energy Consumption
    Jan Keiser, Marco Lutzenberger, Nils Masuch

SNIGM Workshop:
Session Chair: Janet Light, University of New Brunswick, Canada
Room: King George Room

NOA: A Scalable Multi-parent Clustering Hierarchy for WSNs
    Johnathan Vee Cree, Jose Delgado-Frias, Mike Hughes, Brion Burghard, Kurt Silvers
Modelling Safe Landing Zone Detection Options to Assist in Safety Critical UAV Decision Making
    Timothy Patterson, Sally McClean, Philip Morrow, Gerard Parr
An Incentive-Based Framework for Vehicle-Based Mobile Sensing
    Kun-chan Lan, Chien-Ming Chou, Han-Yi Wang
Monitoring winter ice conditions using thermal imaging cameras equipped with infrared microbolometer sensors.
    Janet Light, Subashini Parthasarathy, William McIver
Estimation of energy consumption for TinyOS 2.x-based applications
    Stefano Abbate, Marco Avvenuti, Daniel Cesarini, Alessio Vecchio

Reception	18:00-20:00

Room: Brock Room

Tuesday, August 28, 2012

Keynote II	09:15 - 10:30

Content Delivery Acceleration
Nirwan Ansari, Newark College of Engineering, University Heights Newark, USA

Session Chair: Ramiro Liscano, University of Ontario, Canada
Room: Niagara room

Tea/Coffee	10:30 - 11:00

Room: Brock room

Technical Sessions	11:00 - 12:30

ANT Session 5: Energy-awareness and Management
Session Chair: Bertrand David, LIRIS Lab, Ecole Centrale de Lyon, France
Room: Canadian A Room

Energy-Aware Reprogramming Of Sensor Networks Using Incremental Update & Compression
   Milosh Stolikj, Pieter J. L. Cuijpers and Johan J. Lukkien
Energy-aware Peering Routing Protocol for indoor hospital Body Area Network Communication
   Zahoor Khan, Nauman Aslam, Shyamala Sivakumar and William Phillips
Intelligent Energy Information Service Based On A Multi-Home Environment
   Jong-Ho Shin and Jongwoon Hwang
A Review of Smart Environments for Energy Savings
   Eric Torunski, Rana Othman and Mauricio Orozco, and Abdulmotaleb El Saddik
Remaining Battery Lifetime Determination in Cyber-Physical Systems
   Elisabete Nakoneczny Moraes and Leandro Buss Becker

ANT Session 6: Wireless Sensor Networks
Session Chair: Amjad Rattrout, Claude Bernard Lyon1 University, France
Room: Canadian B Room

 Identifying the Direction of wind in Wireless Sensor Networks
   Mohammed Alasli, Tarek Sheltami, Elhadi Shakshuki
Framework For Distributed Policy-Based Management In Wireless Sensor Networks To Support
Autonomic Behavior
   Nidal Qwasmi and Ramiro Liscano
Independent Protection Of Different Layers In Spatially Scalable Video Coding
   Ala Abu-Zahra, Zafar Shahid, Amjad Rattrout, William Puech
Genetic Algorithm Based Energy Efficient Clusters (GABEEC) in Wireless Sensor Networks
   Selim Bayrakli and Senol Zafer Erdogan
An Energy Efficient Fuzzy Logic Cluster Formation Protocol in Wireless Sensor Networks
   Rogaia Mhemed, Nauman Aslam, William Phillips, and Frank Comeau

MobiWIS Session 3: Middleware Services and Internet of Things
Session Chair: Krishnamurthy Vidyasankar, Memorial University, Canada
Room: Victoria Room

Using a Cloud-Centric Middleware to Enable Mobile Hosting of Web Services
   Richard Lomotey and Ralph Deters
Impact of Mobility on Performance of P2P Content Discovery Protocols over MANET
   Mahmood Fathy, Kaamran Rahemifar , Hamideh Babaei, Morteza Romoozi, Reza Berangy

Evolving Taxonomy of Business Models for Mobile Service Delivery Platform
    Alexander Becker, Andreas Mladenow, Natalia Kryvinska and Christine Strauss
Spamming the Internet of Things: A Possibility and its probable Solution
    Faisal Razzak

FAMS Symposium:
Session Chair: Bruda Stefan, Bishop's University, Canada
Room: Niagara Room

Emerging URL Patterns in Mobile Websites: A Preliminary Results
    Atheer S. Al-Khalifa and Hend S. Al-Khalifa
Distribution Bottlenecks in Classification Algorithms
    Ardjan Zwartjes, Paul Havinga, Gerard Smit and Johann Hurink
An Efficient Intrusion Detection System for High Speed Networks
    Rouached Mohsen and Hassen Sallay
A Peer-to-Peer Architecture for Remote Service Discovery
    Stefan Bruda, Farzad Salehi, Yasir Malik and Bessam Abdulrazak
ERSVC:An Efficient Routing Scheme for Satellite Constellation Adapting Vector Composition
    Jiancheng Li, Yuan An, Baohua Wang and Weiwei Fang
Efficient Deployment of Relay Station in IEEE802.16m for Cost Effective Performance
    Naveed Ahemd, Munam Shah, Sijing Zhang

RoboSense Workshop
Session Chair: Balajee Kannan, Carnegie Mellon University, USA
Room: King George Room

Generation of trajectories using predictive control for tracking consensus with sensing
    Bernardo Ordonez, Ubirajara F. Morenoa, Jes Cerqueira, Luis Almeida
An Evolutionary Approach to Improve Connectivity Prediction in Mobile WSN
    Gustavo Medeiros de Araujo, A.R. Pinto, Jorg Kaiser, Leandro Buss Becker
Simultaneous RSS-based Localization and Model Calibration in Wireless Networks With a
Mobile Robot
    J.Vallet, O.Kaltiokallio, M.Myrsky, J.Saarinen, M.Bocca
Robust Indoor Localization on a Commercial Smart Phone
    Nisarg Kothari, Balajee Kannan, Evan D. Glasgwow, M. Bernardine Dias
Real-time Modelling of Tidal Current for Navigating Underwater Glider Sensing Networks
    Xiaolin Liang, Wencen Wu, Dongsik Chang, Fumin Zhang
EasyLoc: RSS-based Localization Made Easy
    Maissa Ben Jamaa, Anis Koubaa,c, Yasir Kayani
Restoring Wireless Sensor Network Connectivity in Damaged Environments
    Thuy T. Truong, Kenneth N. Brown, Cormac J. Sreenan

Lunch	12:30 - 13:30

Room: Brock room

Technical Sessions	13:30 - 15:00

ANT Session 7: Multimodal Interfaces and Social Computing
Session Chair: Fulvio Corno, Politecnico di Torino, Italy
Room: Canadian A Room

 Predicting Trust from User Ratings
    Nikolay Korovaiko and Alex Thomo

Social Network Analysis of Kuwait Publicly-Held Corporations
    Khaled Mahdi, Ahmed Almajid, Maytham Safar, Hernan Riquelme and Sadegh Torabi
MobilePaperAccess: Ubiquitous Paper-based Interfaces for Mobile Interactions
    Yun Zhou, Bertrand David and Rene Chalon
Semantic-inspired Contextual Affect Detection from Drama Improvisation
    Li Zhang and Alamgir Hossain
dWatch: a Personal Wrist Watch for Smart Environments
    Dario Bonino, Fulvio Corno and Luigi De Russis

ANT Session 8: Service Oriented Computing for Systems & Applications
Session Chair: Gerold Hoelzl, Johannes Kepler University Linz, Austria
Room: Canadian B Room

Goal Oriented Opportunistic Recognition of High-Level Composed Activities Using Dynamically Configured Hidden Markov Models
    Gerold Hoelzl, Marc Kurz and Alois Ferscha
spChains: A Declarative Framework for Data Stream Processing in Pervasive Applications
    Dario Bonino and Fulvio Corno
Collaborate Social Network Services via Connectors
    Hamid Mcheick and Ahmad Karawash
Ubiquitous Health Monitoring Using Mobile Web Services
    Khalid Elgazzar, Muhammad Aboelfotoh, Patrick Martin and Hossam Hassanein
Medical Ontology in the Dynamic Healthcare Environment
    Furkh Zeshan and Radziah Mohamad

MobiWIS Session 4: Mobile Web for Social and Economic Development
Session Chair: Hamidah Ibrahim, Universiti Putra Malaysia, Malaysia
Room: Victoria Room

 Enhancing Public-Private Partnerships Through SMS Vouchers
    Kristina Lugo
Privacy Issues in Mobile Social Network
    Racha Ajami, Nabeel Al-Qirim, and Noha Ramadan
A User-Centric Communication Model for Mobile Web
    Houssein Wehbe and Ahmed Bouabdallah
Instance based Matching Using Regular Expression
    Osama A. Mehdi, Hamidah Ibrahim and Lilly Suriani Affendey

IST-AWSN Symposium
Session Chair: Karim Djouani, French South African Inst. of Technology, South Africa
Room: Niagara Room

Hidden Markov Model for shortest paths testing to detect a Wormhole Attack in a localized Wireless Sensor Network
    Victor Obado, Karim Djouani, Yskandary Hamam
Improving QoS in VANET Using MPLS
    Mahmood Fathy, Saeed GholamalitabarFirouzjaee, Kaamran Raahemifar
Quantitative verification of WiMAX Trac Shaping solutions
    Paolo Ballarini, Jalel Ben-Othman, Lynda Mokdad
Doppler Effect Analysis and Modulation Code Derivation
    E.A Feukeu, K Djouani, A Kurien
An Authentication and Key Establishment Scheme for the IP-Based Wireless Sensor Networks
    Sarmad Ullah Khan, Claudio Pastrone, Luciano Lavagno, Maurizio A. Spirito

PASTH Workshop
Session Chair: Arash Shaban-Nejad, McGill University, Canada
Room: King George Room

Balancing autonomy and security over geotracking patients with Alzheimer's using a personalized geotracking system with social support network
    Yılmaz Kemal Yücea, Kemal Hakan Gülkesen, Ebru Nur Barcın
HAIKU: A Semantic Framework for Surveillance of Healthcare-Associated Infections
    Arash Shaban-Nejada, Alexandre Riazanov, Katia M. Charland, Gregory W. Rose,
    Christopher J.O. Baker, Robyn Tamblyn, Alan J. Forster, David L. Buckeridge
ER-Track: A Wireless Device for Tracking and Monitoring Emergency Responders
    Abishek Thekkeyil Kunnath, Preeja Pradeep, Maneesha Vinodini Ramesh
Characterising Context for Mobile User Interfaces in Health Care Applications
    R. Alnanih, T. Radhakrishnan, O. Ormandjieva

Tea/Coffee	15:00 - 15:30

Room: Brock Room

Technical Sessions	15:30 - 17:00

ANT Session 9: Smart Environments and Applications
Session Chair: Bharat Jayaraman, University at Buffalo (SUNY), USA
Room: Canadian A Room

ThermoNet: Fine-Grain Assessment of Building Comfort and Efficiency
    Jing Li, Jin He and Anish Arora
Fuzzy CARA - A Fuzzy-Based Context Reasoning System For Pervasive Healthcare
    Bingchuan Yuan and John Herbert
Spatio-Temporal Querying in Smart Spaces
    Vivek Menon, Bharat Jayaraman and Venu Govindaraju
Using Reconfigurable System-On-Chip Technology for the Design of a Point-of-Care HIV Testing
    Ali Elkateeb
Publishing LO(D)D: Linked Open (Dynamic) Data for Smart Sensing and Measuring Environments
    Fulvio Corno and Faisal Razzak

ANT Session 10: Wireless Networks Modelling and Protocols
Session Chair: Abdulaziz Barnawi, KFUPM, Saudi Arabia
Room: Canadian B Room

Formulating Human Mobility Model in a Form of Continuous Time Markov Chain
    Hyunuk Kim and Ha Yoon Song
Topological Measures For The Analysis Of Wireless Sensor Networks
    Vincent Labatut and Atay Ozgovde
Efficient and Accurate Range-based Sensor Network Localization
    Md. Tareq Adnan, Suprakash Datta and Stuart Maclean
Leveraging Seminal Protocol Stacks to Support MANETs
    Mohamed Amine Abid and Abdelfettah Belghith
A State-Machine Model for Reliability Eliciting over Wireless Sensor and Actuator Networks
    José Cecílio and Pedro Furtado

MobiWIS Session 5: SOA and Mobile Web Security and Trust
Session Chair: Alberto Sillitti, Free University of Bolzano, Italy
Room: Victoria Room

Secure Web Service Clients on Mobile Devices
   Jens Bertram and Carsten Kleiner
The Early (tweet-int) Bird Spreads the Worm: An Assessment of Twitter for Malware Propagation
   Ameya Sanzgiri, Shambhu Upadhyaya and Jacob Joyce
Trust-based Throughput in Cognitive Radio Networks
   Sazia Parvin, Farookh Khadeer Hussain, Omar Khadeer Hussain, and Abdullah Al Faruque
Service Oriented Architecture to Support Mexican Secondary Education through Mobile Augmented Reality
   Pedro C. Santana Mancilla, Miguel A. Garcia-Ruiz, Ricardo Acosta-Diaz, Celso U. Juárez

EmSeNs Workshop
Session Chair: Frank Comeau, St. Francis Xavier University, Canada
Room: Niagara Room

Fault Tolerant Wireless Sensor Networks using Adaptive Partitioning
   Shahadat Hossain, Rohan Monteiro, Allaa R. Hilal, and Otman Basir
Multi-hop Interference-Aware Routing Protocol for Wireless Sensor Networks
   Shadi V. Vajdi, Allaa R. Hilal, Sabbeer Ahmed Abeer, and Otman A. Basir
The AETOURNOS project: Using a flock of UAVs as a Cyber Physical System and platform for application-driven research
   Adrien Guenard; Laurent Ciarletta
Overview of Deployment and Redeployment Algorithms for Mobile Wireless Sensor Networks
   Saoucene Mahfoudh, Pascale Minet, Anis Laouiti

SUPE Workshop
Session Chair: Jaafar Gaber, Universite de Technologie de Belfort-Montbeliard, France
Room: King George Room

A Compact Bit String Accessibility Map for Secure XML Query Processing
   Meghdad Mirabi, Hamidah Ibrahim, Nur Izura Udzir and Ali Mamat
Context-Aware Mobile Business Models Discovery
   Nabeel Al-Qirim
On-the-fly Multimedia Document Adaptation Architecture
   Quang Pham Hai, Sébastien Laborie, Philippe Roose
On the Role of Perception and Apperception in Ubiquitous and Pervasive Environments
   Vincenzo De Florio
Potential Advantages and Disadvantages of Multiplatform Development Frameworks – A Vision on Mobile Environments
   Luis Corral, Andrea Janes and Tadas Remencius

Banquet and Award Ceremony   19:00-22:00

Room: Niagara Room

Wednesday, August 29, 2012

Technical Sessions   **09:00 - 10:30**

ANT Session 11: Systems Security and Privacy
Session Chair: Ridha Khedri, McMaster University, Canada
Room: Canadian A Room

Tackling Application-layer DDoS Attacks
   Hakem Beitollahi and Geert Deconinck
A Novel Chaotic Encryption Framework for Securing Palmprint Data
   Gaurav Bhatnagar and Q.M. Jonathan Wu
A Quantitative Approach For Intrusions Detection And Prevention Based On Statistical Ngram
Models
   Ammar Boulaiche, Hatem Bouzayani and Kamel Adi
On the Necessary Conditions for Covert Channel Existence: A State-of-the-Art Survey
   Jason Jaskolka, Ridha Khedri and Qinglei Zhang
The Role of DNS TTL Values in Potential DDoS Attacks: What Do the Major Banks Know About
It?
   Natalija Vlajic, Maria Andrade and U. T. Nguyen

ANT Session 12: Systems Software and Systems Security
Session Chair: Bharat Jayaraman, University at Buffalo (SUNY), USA
Room: Canadian B Room

Using RELAX, SysML and KAOS for Ambient Systems Requirements Modeling
   Manzoor Ahmad, Jean-Michel Bruel, Régine Laleau and Christophe Gnaho.
An Aspect-Oriented Language for Product Family Specification
   Qinglei Zhang, Ridha Khedri and Jason Jaskolka
Model-driven Engineering of Networked Ambient Systems with SDL-MDD
   Tobias Braun, Dennis Christmann, Reinhard Gotzhein and Anuschka Igel
C2L: A Formal Policy Language For Secure Cloud Configurations
   Jayaraj Poroor and Bharat Jayaraman
A Four-Step Technique for Tackling DDoS Attacks
   Hakem Beitollahi and Geert Deconinck

MobiWIS Session 6: SOA and Performance of Mobile Services
Session Chair: Jesus Tellez, Universidad de Carabobo, Venezuela
Room: Victoria Room

Performance Study of Workflow Patterns-Based Web Service Composition
   Wafaa Ait-Cheik-Bihi, Ahmed Nait-Sidi-Moh, Mohamed Bakhouya, Jaafar Gaber and
   Maxime Wack
Mobile multiplatform development: An experiment for performance analysis "
   Luis Corral, Alberto Sillitti and Giancarlo Succi
Performance Analysis of Web Services on Mobile Devices
   Kamaleldin Mohamed and Duminda Wijesekera
Authoring Relational Queries on the Mobile Devices
   Adele Hedrick and Ken Pu

AWS Workshop
Session Chair: Walid Chainbi, University of Sousse, Tunisia
Room: Niagara Room

An Approach to Service Adaptation for Exploratory Application Construction

Wanghu Chena, Jing Li, Ji Zhang
AWS-Policy: an extension for autonomic web service description
    Haithem Mezni, Walid Chainbi, Khaled Ghedir
An Agent-Based Approach for Binding Synchronization of Web Services
    Jaber Kouki, Walid Chainbi, Khaled Ghedira

Tea/Coffee   **10:30 - 11:00**

Room: Brock room

Technical Sessions   **11:00 - 12:30**

ANT Session 13: Vehicular Networks and Protocols
Session Chair: Natalija Vlajic, York University, Canada
Room: Canadian A Room

A Context-Aware Cross-Layer Broadcast Model for Ad Hoc Networks
    Aris Ouksel and Doug Lundquist
A Novel Cluster-Based Protocol for Topology Discovery in Vehicular Ad Hoc Network
    Liren Zhang and Hesham El-Sayed
On the Delay of Reactive-Greedy-Reactive Routing in Unmanned Aeronautical Ad-hoc Networks
    Rostam Shirani, Marc St-Hilaire, Thomas Kunz, Yifeng Zhou, Jun Li and Louise Lamont
A study of Wireless Sensor Network Architectures and Projects for Traffic Light Monitoring
    Mohamed Amine Kafi

MobiWIS Session 7: Mobile Networks and Context-Awareness
Session Chair: Phu Phung, Chalmers University of Technology, Sweden
Room: Victoria Room

An Anonymous Secure Payment Protocol in a Payment
    Jesus Tellez and Sherali Zeadally
A Context-Aware Cross-Layer Broadcast Model for Ad Hoc Networks: Analysis of Multi-Hop Routing
    Doug Lundquist and Aris Ouksel
Performance Analysis of a Microstrip Printed Antenna Conformed on Cylindrical Body at Resonance Frequency 4.6 GHz for TM01 Mode
    Ali Elrashidi, Khaled Elleithy and Hassan Bajwa
Context-Aware Driver Assistance System
    Wael Alghamdi, Elhadi Shakshuki and Tarek Sheltami

IUPT/GCRE Workshops
Session Chair: Walid Chainbi, University of Sousse, Tunisia
Room: Niagara Room

Connected Coverage for RFID and Wireless Sensor Networks
    Ahmed Jedda, Mazen Khair, Hussein T. Mouftah
Defense and Monitoring Model for Distributed Denial of Service Attacks
    Usman Tariq, Yasir Malik, Bessam Abdulrazak
Towards self-optimization of a pervasive computing task
    Manolo Dulva Hina, Amar Ramdane-Cherif, Marietta S. Sicat, Rodolfo S. Vargas

Energy Aware Resource Allocation Based on Demand Bandwidth and Duration
    Ying Chen, Arunita Jaekel
Solar energy and free cooling potential in European data centers

Tuomo Malkamaki, Seppo J. Ovaska

Graduate Symposium
Session Chair: Elhadi Shakshuki, Acadia University, Canada
Room: Canadian B Room

Distributed Policy-Based Management for Wireless Sensor Networks
    Nidal Qwasmi, Ramiro Liscano
Improving Driver's Behavior Using Context-Aware Systems
    Wael Alghamdi
Selecting Negotiation Strategies for Meeting Scheduling Using a Model Based Approach
    S. M. Mozammal Hossain

END