



The 2nd International Conference on Ambient Systems, Networks and Technologies

September 19-21, 2011, Niagara Falls, Ontario, Canada

In conjunction with the 8th International Conference on Mobile Web Information Systems (MobiWIS)



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Prelimarily Program

Conferences and Workshops

ANT 2011

The 2nd International Conference on Ambient Systems, Networks and Technologies

MobiWIS 2011

The 8th International Conference on Mobile Web Information Systems

FAMS 2011

The International Symposium on Frontiers in Ambient and Mobile Systems

IST-AWSN 2011

The 6th International Symposium on Intelligent Systems Techniques for Ad hoc and Wireless Sensor Networks

IWRT 2011

The 5th International Workshop on RFID Technology - Concepts, Applications, Challenges

WNCS 2011

The International Workshop on Wireless Networked Control Systems

ARTIFACT 2011

AmbienT Intelligence at the services of inFo-mobility and Critical Transportation networks

EmSeNs 2011

The International Workshop on Emerging Technologies in Sensor Networks

September 19-21, 2011

Niagara Falls, Ontario, Canada

Program Schedule

Monday, September 19, 2011

Time: 8:45 - 10:15 Registration and Tea/Coffee

Room: Lobby Board Room

Time: 10:15 - 10:30 Opening

ANT 2011 and MobiWIS 2011 Opening

Room: Niagara room

Time: 10:30 - 12:00 Keynote I

Hossam Hassanein, Queen's University, Kingston, Canada

Sensing and Identification in the Internet of Things Era

Session Chair: Ramiro Liscano, University of Ontario, Canada

Room: Niagara room

Time: 12:00 - 13:30 Lunch

Room: Brock room

Time: 13:30 - 15:00 Technical Sessions

ANT Session 1: Emerging Networks and Sensing Technologies

Session Chair: Shivakant Mishra, University of Colorado, USA

Room: Canadian A

Opportunistic Communications for Emergency Support Systems

Gokce Gorbil, Erol Gelenbe

Teamwork on the Road: Efficient Collaboration in VANETs with Context-based Grouping

Koosha Paridel, Ansar-Ul-Haque Yasar, Yves Vanrompay, Davy Preuveneers, Yolande Berbers.

ZigBee-based indoor location system by k-nearest neighbor algorithm with weighted RSSI

Chih-Ning Huang, Chia-Tai Chan

Use of Wireless Mesh Network to Improve Mobile Asset Utilization in Manufacturing Industries

Srideep Ghosh, Anurag D, Somprakash Bandyopadhyay

RFID service for non-RFID enabled devices: Embedded hardware implementation

Oscar Botero, Hakima Chaouchi

ANT Session 2: Ambient Intelligence

Session Chair: Jamal Bentahar, University of Concordia, Canada

Room: Canadian B

A Multi-Agent Framework for Ambient Systems Development

Xiping Hu, Weichang Du, Bruce Spencer

A Simulator for Generating and Visualizing Sensor Data for Ambient Intelligence Environments

Mario Buchmayr, Werner Kurschl, Josef Kung

Towards Ambient Communication Support for Power Grid Maintenance and Repair

Naoto Kume, Mikko J. Rissanen

Wireless Sensor Network Based Wildfire Hazard Prediction System Modeling

Hakilo Sabit, Adnan Al-Anbuky, Hamid Gholam Hosseini

MobiWIS Session 1: Mobile Web Security and Privacy

Session Chair: Pascal Bihler, Universitat Bonn, Germany

Room: Victoria

An Alternative Approach to k-Anonymity for Location-Based Services

Amirreza Masoumzadeh, James Joshi

A Service-oriented Approach to Mobile Code Security

Micah Jones, Kevin W. Hamlen

Security of MBAN based Health Records in Mobile Broadband Environment

Debopam Acharya, Vijay Kumar

Exploration of Attacks on Current Generation Smartphones

Steven Salerno, Ameya Sanzgiri, Shambhu Upadhyaya

FAMS Session 1: Wireless Networks and Software Systems

Session Chair: AbdulMutalib Wahaishi, UAE University, UAE

Room: King George

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Room: King George

Software Development and Quality Problems and their Solutions by TRIZ

Su-Hua Wang, Durgesh Samadhiya, Dengjie Chen

Embedding and Verification of ZigBee Protocol Stack in Event-B

Amjad Gawanmeh

Assessing and Redesigning Enterprise Networks through NS-2 to Support VoIP

Tahani Hussain, Sami Habib

Next-Generation Wireless Sensor Networks Infrastructure Development for Monitoring Applications

Ali El Kateeb

Forecasting Daily Gas Load with OIHF-Elman Neural Network

Hong Zhou, Gang Su, Guofang Li

Intelligent Monitoring and Control Architecture for Future Electrical Power Systems

AbdulMutalib Masaud-Wahaishi, Ahmed Gaouda

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

Room: Brock room

Time: 15:30 - 17:00 Technical Sessions

ANT Session 3: Security and Privacy

Session Chair: Adnan Al-Anbuky, Auckland University of Technology, New Zealand

Room: Canadian A

A Secure Platform of Wireless Sensor Networks

Abidalrahman Moh'd, Hosein Marzi, Nauman Aslam, William Phillips, William Robertson

Unsupervised Clustering of Web Sessions to Detect Malicious and Non-malicious Website Users

Dusan Stevanovic, Natalija Vlajic, Aijun An

Key Predistribution Scheme for Grid Based Wireless Sensor Networks using Quadruplex Polynomial Shares per Node

V. Sridhar , V. Raghavendar

SurvSec: A New Security Architecture for Reliable Network Recovery from Base Station Failure of Surveillance WSN

Mohamed Helmy Megahed, Dimitrios Makrakis, Bidi Ying

A Novel Approach to Video Copy Detection Using Audio Fingerprints and PCA

R. Roopalakshmi, G. Ram Mohana Reddy

ANT Session 4: Security and Reputation

Session Chair: Ramiro Liscano, University of Ontario, Canada

Room: Canadian B

Collaborative Peer to Peer Defense Mechanism for DDoS Attacks

Usman Tariq, Yasir Malik, Bessam Abdulrazak, ManPyo Hong

Challenges in the Implementation and Simulation for Wireless Side-Channel based on Intentionally Corrupted FCS

Ali Najafizadeh, Ramiro Liscano, Miguel Vargas Martin, Peter Mason, Mazda Salmanian

Performance Evaluation Study of Intrusion Detection Systems

Adeeb Alhomoud, Rashid Munir, Jules Pagna Disso, Irfan Awan, A. Al-Dhelaan

Collusion-Resistant Reputation Mechanism for Multi-Agents Systems

Babak Khosravifar, Jamal Bentahar, Mahsa Alishahi, Maziar Gomrokchi

Using Reputation Management in Participatory Sensing for Data Classification

HaoFan Yang, Jinglan Zhang, Paul Roe

MobiWIS Session 2: Mobile Data Management

Session Chair: Jean-Charles Gregoire, INRS, Montreal, Canada

Room: Victoria

Efficient Querying of Distributed RDF Sources in Mobile Settings based on a Source Index Model

Eugen Paret, William van Woensel, Sven Casteleyn, Beat Signer, Oiga De Troyer

Distributed Usage Control

Debmalya Biswas, Nikolai Nefedov, Valtteri Niemi

Towards Supporting Users in Semantic Exploration of Large Distributed Schemas

Mandana Sotoodeh, Rachel Pottinger, Philippe Kruchten

A Domain-based query routing mechanism for peer-to-peer networks

Ghada Hassan, Hamidah Ibrahim, Md. Nasir Sulaiman, Rasali Yakob

FAMS Session 2: Mobile Information Services and Security

Session Chair: Takahiro Hara, Osaka University, Japan

Room: King George

IFHNFS: Fast Indexing Information in Mobile Devices

Nicola Corriero, Giuseppe Gargiulo, Giovanni Pani

Towards Pattern-based Generic Interaction Scenarios

Bettina Biel, Stefan Seitz, Volker Gruhn

Automatic Full Text Analysis in Public Social Media = Adoption of a Software Prototype to Investigate Political Communication

Stefan Stieglitz, Christian Kaufhold

Towards Shrink-Wrapped Security: A Logic Based Framework for the Dynamic Adaptation of Permissions

Gleneesha Johnson, Paulo Shakarian, Neha Gupta, Ashok Agrawala

Detecting Insecure Person in Crowd with Human Sensor

Chao Wu, Yike Guo

Time : 18:00 - 20:00 Reception

Room: Brock Room

[Tuesday, September 20, 2011](#)

Time: 9:00 - 10:00 Keynote II

Diane McKerlie (Bell Business Markets, Bell Canada)

User Centred Design for the Mobile Web

Session Chair: Muhammad Younas, Oxford Brookes University, UK

Room: Niagara room

Time: 10:00 - 10:30 Tea/Coffee

Room: Brock room

Time: 10:30 - 12:00 Technical Sessions

ANT Session 5: Wireless Sensor Networks

Session Chair: Amjad Gawanmeh, Khalifa University, UAE

Room: Canadian A

LNT: a Logical Neighbor Tree for Secure Group Management in Wireless Sensor Networks

Omar Cheikhrouhou, Anis Koubaab, Gianluca Dini, Hani Alzaid, Mohamed Abid

An Efficient Key Distribution Scheme to Secure Data-Centric Routing Protocols in Hierarchical Wireless Sensor Networks

Abderrahmen Guermazi, Mohamed Abid

How Wireless Sensor Networks Can Benefit from Brain Emotional Learning Based Intelligent Controller (BELBIC)

Tahir Emre Kalayci, Majid Bahrepour, Nirvana Meratnia, Paul J. M. Havinga

Towards Augmenting Federated Wireless Sensor Networks

Fadi M. Al-Turjman, Hossam S. Hassanein, Sharief M.A. Oteafy

Development of Intelligent Wireless Sensor Networks for Human Comfort Index Measurement

Mohd Izani Mohamed Rawia, Adnan Al-Anbukya

ANT Session 6: Wireless and Ad Hoc Networks**Session Chair: Karim Djouani, Tshwane University of Technology, South Africa****Room: Canadian B**

Proposal for Dynamic Organization of Service Networks over a Wireless Sensor and Actuator Network

Takuya Iwai, Naoki Wakamiya, Masayuki Murata

Understanding Characteristics of Available Bandwidth in Wireless Environment

Xinyu Xing, Yifei Jiang, Shivakant Mishra

Optimized Handover Strategy with Movement Trend Awareness for Body Sensor Networks

Wen Sun, Lianying Ji, Wai-Choong Wong

Dynamically Reconfigurable Energy Aware Modular Software (DREAMS) Architecture for WSNs in Industrial

Ahmad El Kouche, Louai Al-Awami, Hossam Hassanein

Joint Power and Rate Adaptation in Ad Hoc Networks based on Coupled Interference

Fredrick Mzee Awuor, Karim Djouani, Guillaume Noel

MobiWIS Session 3: Context-aware Services**Session Chair: Ralph Deters, University of Saskatchewan, Canada****Room: Victoria**

SmartGuide - A Smartphone Museum Guide with Ultrasound Control

Pascal Bihler, Paul Imhoff, Armin B. Cremers

An Adaptive Context-Aware and Event-Based Framework Design Model

Eduardo S. Barrenechea, Paulo S. C. Alencar

ALPINe: Another Location Privacy Information Network

Jean-Charles Gregoire, Angele M. Hamel

Towards Context-adaptable Web Service Policies

H. Yahyaoui, L. Wang, A. Mourad, M. Almullah, Q.Z. Sheng

ARTIFACT**Session Chair: Giuseppe Conti, GraphiTech, Italy****Room: King George**

A Personal Mobility Assistant based on Ambient Intelligence to Promote Sustainable Travel Choices

Daniele Magliocchetti, Martin Gielow, Federico De Vigili, Giuseppe Conti, Raffaele De Amicis.

The Protection of Privacy in the i-Tour Framework

Scott W Cadzow

Business Potential and Market Opportunities of Intelligent LBSs For Personal Mobility - A European Case Study

Cristina d'Alessandroa, Pier Carlo Trucco

A Multimodal Transport Network Model for Advanced Traveler Information Systems

Jianwei Zhang, Feixiong Liao, Theo Arentze, Harry Timmermans

Improving Intelligence through use of Natural Language Processing. A Comparison between NLP Interfaces and Traditional Visual GIS Interfaces

Davide Cali, Antonio Condorelli, Santo Papa, Marius Rata, Luca Zagarella

Innovative Technologies to Estimate Public Transport Load in-real Time by Video Content Scene Analysis

Anta Fiorentino, Paquale Rovito, Sauro Straccali, Dario Donnari

Time: 12:00 - 13:30 Lunch

Room: Brock room

Time: 13:30 - 15:00 Technical Sessions

ANT Session 7: Context-awareness**Session Chair: Mikael Desertot, Universite de Valenciennes, France****Room: Canadian A**

The User-Context Module: A New Perspective on Future Internet Design

Yu Lu, Mehul Motani, Wai-Choong Wong

From Context to Micro-context - Issues and Challenges in Sensorizing Smart Spaces for Assistive Living

Jit Biswas, Aung Aung Phyoe Wai, Andrei Tolstikov, Lin Jin Hong Kenneth, Jayachandran Maniyeri, Foo Siang Fook Victor, Alwyn Lee, Clifton Phua, Zhu Jiaqi, Huynh Thai Hoa, Thibaut Tiberghien, Hamdi Aloulou, Mounir Mokhtari

A Distributed Architecture for Micro Context-Aware Agents

Patrice Roy, Bessam Abdulrazak, Yacine Belala

Building and Operating Context-aware Services for Groups of Users

Ichiro Satoh

A Data Fusion Approach to Context-Aware Service Delivery in Heterogeneous Network Environments

Peyman TalebiFard, Victor C.M Leung

ANT Session 8: Data and Applications

Session Chair: Markus Aleksey, ABB Corporate Research Center, Germany

Room: Canadian B

Pervasive Integrity Checking with Coupled Objects

Paul Couderc, Michel Banatre, Fabien Allard

Energy-Efficient Assessment of Physical Activity Level Using Duty-Cycled Accelerometer Data

Stephan Bosch, Raluca Marin-Perianu, Paul Havinga, Mihai Marin-Perianu

An Approach to Use FB-AODV with Android

Nicola Corriero, Emanuele Covino, Angelo Mottola

Arresting Particle Hijack in Multitarget Tracking

Neeta Trivedi, Narayanaswamy Balakrishnan

Solving Incomplete Datasets in Soft Set Using Supported Sets and Aggregate Values

Ahmad Nazari Mohd Rose, Hasni Hassan, Mohd Isa Awang, Nor Aida Mahiddin,

Hidayatulaminah Mohd Amin, Mustafa Mat Deris

MobiWIS Session 4: Mobile Web and Cloud Services

Session Chair: Remi Zajac, AT&T Labs, San Francisco, USA

Room: Victoria

uCloud: Towards a New Paradigm of Rich Mobile Applications

Verdi March, Yan Gu, Erwin Leonardi, George Goh, Markus Kirchberg, Bu Sung Lee

Using a Cloud-Hosted Proxy to support Mobile Consumers of RESTful Services

Shomoyita Jamal, Ralph Deters

CloudSTag: Social Group Formation with Facial Recognition and Mobile Cloud Services

Satish Narayana Srirama, Carlos Paniagua, Huber Flores

IWRT Session

Session Chair: Azzam Mourad, LAU, Lebanon

Room: King George

Conceptual Selective RFID Anti-Collision Technique Management

Prapassara Pupunwiwat, Peter Darcy, Bela Stantic

RRTL: RFID Reader Topology Language. A Language to Manage RFID Reader's Networks

Ismael Abad, Carlos Cerrada, Jose Antonio Cerrada, Vicente Dies

The Effect of Perceived Intrusion on Consumers' Attitude Towards using an RFID-Based Marketing Program

Harold Boeck, Jean Roy, Fabien Durif, Marc Gregoire

Using RFID to Improve Hospital Supply Chain Management for High Value and Consignment Items

Ygal Bendavid, Harold Boeck

Finding Commonalities in RFID Semantic Streams

Michele Ruta, Simona Coluccia, Floriano Scioscia, Eugenio Di Sciascio, Francesco M. Donini

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

Room: Brock room

Time: 15:30 – 17:00 Technical Sessions

ANT Session 9: Ambient Systems and Smart Environments

Session Chair: Abdallah M'Hamed, Telecom SudParis, France

Room: Canadian A

A Novel Trust-Based Authentication Scheme for Low-Resource Devices in Smart Environments

Anas El Husseini, Abdallah M'hamed, Bachar El Hassan, Mounir Mokhtari

CReMe: a Dynamic and Flexible Conflict Resolution Methodology for Competitive Ambient Systems

Thais R. M. B. Silva, Linnyer B. Ruiz, Antonio Loureiro, Fabricio A. Silva

Spatio-Temporal Reasoning in Biometrics Based Smart Environments

Vivek Menon, Bharat Jayaraman, Venu Govindaraju

An Intelligent Object Framework for Smart Living

Sasa Savic, Hao Shi

Wearable Computing in Industrial Service Applications

Markus Aleksey, Mikko J. Rissanen, Sylvia Maczey, Marcel Dix

ANT Session 10: Context-aware and Situation-aware Applications

Session Chair: Takahiro Hara, Osaka University, Japan

Room: Canadian B

When the Context Changes, So Does My Transportation Application: VESPA

Dana Popovici, Mikael Desertot, Sylvain Lecomte, Thierry Delot

Personalized Service Creation by Non-technical Users in the Homecare Domain

Mohammad Zarifi Eslami, Alireza Zarghami, Brahmananda Sapkota, Marten van Sinderen

OLSR-based Topology Discovery for Mobile Situational Awareness Systems

Anand Dersingh, Z.M. Faizul Islam, Shahram Shah Heydari, Md. Mustafizur Rahman

A Location-based Content Search System Considering Situations of Mobile Users

Mayu Iwata, Takahiro Hara, Kentaro Shimatani, Tomohiro Mashita, Kiyoshi Kiyokawa, Shojiro Nishio, Haruo Takemura

A Menu-based Content Search Support System Considering Mobile User's Situations

Hiroki Miyamoto, Dajiro Komaki, Takahiro Hara, Kentaro Shimatani, Tomohiro Mashita, Kiyoshi Kiyokawa, Toshiaki Uemukai, Shojiro Nishio, Haruo Takemura

MobiWIS Session 5: Mobile Web Design and Development

Session Chair: Ian Warren, University of Auckland, New Zealand

Room: Victoria

Developing Once, Deploying Everywhere: A Case Study using JIL

Carlos Duarte, Ana Paula Afonso

Using RDF Data as Basis for 3D Window Management in Mobile Devices

Antti Peuhkurinen, Tommi Mikkonen, Mikko Terho

mCIOIS: An Application of Mobile Technology for Childhood Obesity Surveillance

Arun K. Dattaa, Andi Sumargo, Victoria Jackson, Pradip P. Dey

Scriptable Web Applications as First-Class Citizens

Tommi Mikkonen, Mikko Terho, Mikko Kuusipalo, Pekka Reijula

WNCS

Session Chair: Nauman Aslam, Dalhousie University, Canada

Room: King George

Reliable and Low Latency Transmission in Industrial Wireless Sensor Networks

Kan Yu, Mikael Gidlund, Johan Akerberg, Mats Bjorkman

Wireless Sensor Actor Network Simulation for a Fire Extinguishing System

John Khalil, Ramiro Liscano

A Robust Neural Fuzzy Petri Net Controller for a Temperature Control System

Time: 19:00 - 22:00 Banquet

Room: Niagara room

Wednesday, September 21, 2011

Time: 9:00 - 10:00 Technical Sessions

ANT Session 11: Social Networks

Session Chair: Thais Silva, Universidade Federal de Vicosa, Brazil

Room: Canadian A

Identifying Influential Stock Indices from Global Stock Markets: A Social Network Analysis Approach

Ram Babu Roy, Uttam Kumar Sarkar

Alignment Based Similarity Distance Measure for Better Web Sessions Clustering

Poornalatha G, Prakash Raghavendra

Towards Identifying the Challenges Associated with Emerging Large Scale Social Networks

Haroon Malik, Ahsan Samad Malik

Composite Web Services Formation Using a Social Network of Web Services: A Preliminary Investigation

Said Elhaffar, Zakaria Maamar

Greedy-Face-Greedy Routing based Human Tracking in Mobile Social Networks

Yingchi Mao

MobiWIS Session 6: Mobile Commerce and Business Services

Session Chair: Debmalya Biswas, Nokia Research Center, Lausanne, Switzerland

Room: Victoria

Defining, Executing and Evolving Microfranchise Templates

Jeff DePree, Stanley Y.W. Su

Business Process Integration using Telco Mashups

Olexiy Chudnovskyy, Hendrik Gebhardt, Frank Weinhold, Martin Gaedke

OdinTelehealth: A Mobile Service Platform for Telehealth

I. Warren, T. Weerasinghe, R. Maddison, Y. Wang

Towards Building Semantic Next Generation Network - A Preliminary Study

Kidd S.C. Toh, S.M.F.D Syed Mustapha

IST-AWSN Session

Session Chair: Anis Koubaa, Al-Imam University, Saudi Arabia

Room: Canadian B

Real-time Energy Monitoring and Controlling System based on ZigBee Sensor Networks

Woong Hee Kim, Sunyoung Lee, Jongwoon Hwang

An Adaptive and Distributed Collision-Free MAC Protocol for Wireless Personal Area Networks

Juan Lua, Adrien Van Den Bossche, Eric Campo

Load Balancing Metric with Diversity for Energy Efficient Routing in Wireless Sensor Networks

Sofiane Moad, Morten Tranberg Hansen, Raja Jurdak, Branislav Kusy, Nizar Bouabdallah

A Heuristic Method for Wireless Sensor Network Localization

Mohamadreza Shahrokhzadeh, Abolfazl T. Haghigat, Fariborz Mahmoudi, Behrooz Shahrokhzadeh

Challenges of MANET for Mobile Social Networks

Stefan Stieglitz, Christoph FuchB

EmSeNs Session

Session Chair: Frank Comeau, St. Francis Xavier University, Canada

Room: King George

Analvsis of LEACH Energy Parameters

Frank Comeau, Nauman Aslam

Heterogeneous Clustering of Sensor Network

Mazen G. Khair, Burak Kantarci, Hussein T. Mouftah

Delay-Reliability Trade-off in MIMO-Enabled IEEE 802.11-Based Wireless Sensor and Actuator Networks

M. Maadani, S. A. Motamed, H. Safdarkhani

A Fuzzy Reputation System in Vehicular Ad hoc Networks

Mohammad Jalali, Nasser Ghasem Aghaei

Time: 10:00 - 10:30 Tea/Coffee

Room: Brock room

Time: 10:30 - 12:00 Technical Sessions

ANT Session 12: Quality of Service

Session Chair: Wail Mardini, Jordan University of Science and Technology, Jordan

Room: Canadian A

On Maximizing the Entropy of Complex Networks

Maytham H. Safar, Ibrahim Y. Sorkhoh, Hisham M. Farahat, Khaled A. Mahdi

Optimal Power Consumption in Cooperative WSNs for A Random Distance using a Linear Propagation Model

Wail Mardini, Yaser Khamayseh, Marwa Salayma

A New Qualitative Spatial Recognition Model based on Egenhofer Topological Approach using C4.5 Algorithm: Experiment and Results

Kevin Bouchard, Bruno Bouchard, Abdenour Bouzouane

Space Vector Modulation Direct Torque Speed Control of Induction Motor

Mohammed T. Lazim, Muthanna J. M. Al-khishali, Ahmed Isa. Al-Shawi

Cloud Services Testing: An Understanding

Atif Farid Mohammad, Hamid McHeick

MobiWIS Session 7: Modern Networks and Mobile Services

Session Chair: Eugenio Di Sciascio, Technical University of Bari, Italy

Room: Victoria

A Platform for Interactive Location-Based Services

W. Ait-Cheik-Bihi, M. Bakhouya, A. Nait-Sidi-Moh, J. Gaber, M. Wack

Empirical Comparisons of Attack and Protection Algorithms for Online Social Networks

Mingzhen Mo, Irwin King, Kwong-Sak Leung

A Framework for Peer-to-Peer Video Streaming over WiMax

Kashinath Basu, Muhammad Younas

A Scenario-based Framework for Perceiving Crossbreed Service Interactions

Natalia Kryvinska, Christine Strauss

Conferences End

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