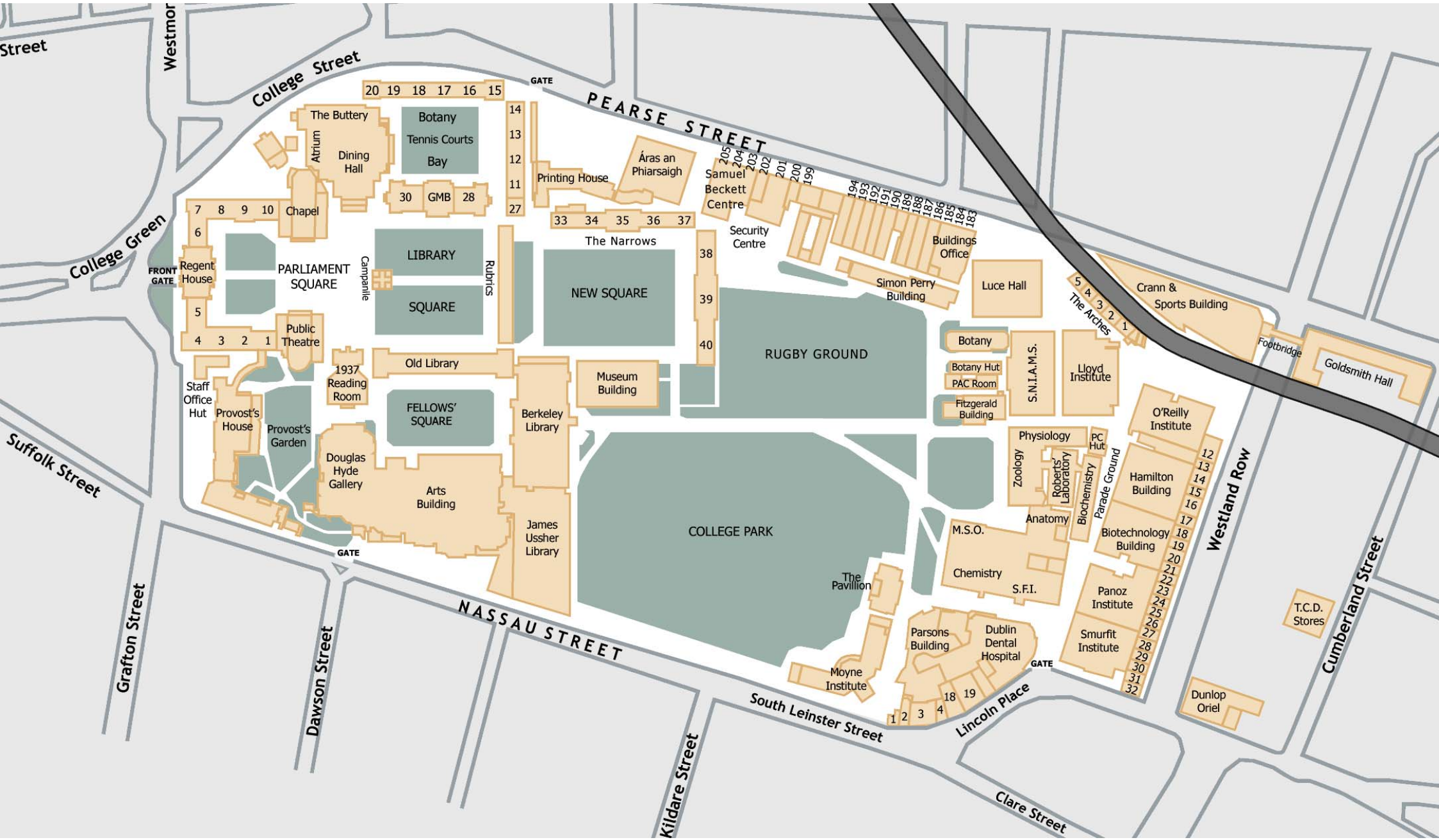
Joint Technical Programme MobiQuitous/ISVCS 2008

Venue: Hamilton Conference Centre, Trinity College Dublin
Rooms: Joly, Maxwell, Salmon, Synge

Legend

MobiQuitous event	ISVCS event	Joint event

Start time	Monday 21st July		Tuesday 22nd July		Wednesday 23rd July		Thursday 24th July		Friday 25th July	
08:30	Registration desk open all day (Hamilton basement)									
09:00	**IWCTS** Salmon	**SMPE** Synge	**Keynote** **Gregory O'Hare** Ubiquitous Intelligence: The Case for Multi-Agent Systems in the Mobile & Ubiquitous Arena Joly		**Keynote** **John Leonard** The MIT DARPA Urban Challenge Team Joly		**Keynote** **Hannes Hartenstein** Vehicular networks – quo veheris? Joly		**HUCUBIS** Salmon	**MIMES** Synge
10:30	Morning coffee break (Hamilton basement)									
11:00	**IWCTS** Salmon	**SMPE** Synge	**Session 1** Middleware for Pervasive Applications Joly	**Session 1** Industry Research and Practice Maxwell	**Session 3** Pervasive Spaces Joly	**Session 3** On-board Embedded Systems Maxwell	**Session 5** The Social Factor Joly	**Session 6** Traffic and Service Management Maxwell	**HUCUBIS** Salmon	**MIMES** Synge
12:30	Lunch (Buttery Vaults in the Trinity Dining Hall complex)									
14:00	**IWCTS** Salmon	**SMPE** Synge	**Session 2** Wireless Networks Joly	**Session 2** Human Factor Designs Maxwell	**Session 4** User Interaction with Pervasive Systems Joly	**Session 4** Image Processing Applications Maxwell	**Session 6** Mobile Device Challenges Joly	**Session 7** Driver Information Systems Maxwell	**HUCUBIS** Salmon	**MIMES** Synge
15:30	Afternoon coffee break (Hamilton basement)									
16:00	**IWCTS** Salmon	**SMPE** Synge	**One-minute Madness!** Joly		**Panel** Joly	**Session 5** Vehicular Network Routing Maxwell				**MIMES** Synge
16:30			**Demonstration and poster session** Hamilton concourse and O'Reilly Institute							
18:30			Bus to banquet departs							
19:30			**Conference Banquet** The 'Hooley' at Johnnie Fox's							
24:00			Bus to city departs							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Buildings Office
Simon Perry Building
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The Arches
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Footbridge
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Public Theatre
PARLIAMENT SQUARE
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33 34 35 36 37
The Narrows
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RUGBY GROUND
Botany
Botany Hut
PAC Room
Fitzgerald Building
S.N.I.A.M.S.
Lloyd Institute
Staff Office Hut
Provost's House
Provost's Garden
1937 Reading Room
Old Library
FELLOWS' SQUARE
Museum Building
Berkeley Library
Douglas Hyde Gallery
Arts Building
James Ussher Library
COLLEGE PARK
The Pavillion
Moyne Institute
Parsons Building
Dublin Dental Hospital
Physiology
PC Hut
Zoology
Roberts' Laboratory
Biochemistry
Parade Ground
Anatomy
M.S.O.
Chemistry
S.F.I.
O'Reilly Institute
Hamilton Building
Biotechnology Building
Panoz Institute
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Fifth Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous)
First Annual International Symposium on Vehicular Computing Systems (ISVCS)

21st – 25th July 2008, Trinity College Dublin, Ireland

Joint Technical Programme

Registration desk open from 8:30 every day

Hamilton basement

Monday 21st July

Full-day workshops, concurrent, please check individual workshop schedules:

1st International Workshop on Computational Transportation Science, Room Salmon

2nd International Symposium on Security and Multimodality in Pervasive Environments, Room Synge

Tuesday 22nd July

9:00 – 9:15

MobiQuitous / ISVCS Opening Ceremony
Room Joly

9:15 – 10:30

Keynote Speech
Ubiquitous Intelligence: The Case for Multi-Agent Systems in the Mobile & Ubiquitous Arena
Gregory O'Hare, CLARITY: The Centre for Sensor Web Technologies, University College Dublin (UCD)

Chair: Liviu Iftode
Room Joly

10:30 – 11:00

Coffee break
Hamilton basement

11:00 – 12:30

MobiQuitous	ISVCS
Session 1 - Middleware for Pervasive Applications	**Session 1 - Industry Research and Practice**
Chair: Siobhán Clarke	**Chair: Nikola Serbedzija**
Room Joly	Room Maxwell
TMACS: Type-based Distributed Middleware for Ad-hoc Applications in MANETs *Jinsong Lin, Eusden Shing, Wing-Kai Chan, Rajive Bagrodia*	V2V and V2I Communications Security in VII *William Whyte*
Context-Aware Fault Tolerance in Migratory Services *Oriana Riva, Josiane Nzouonta and Cristian Borcea*	Design And Realization of an IP-Based In-Car Network Architecture *Rainer Steffen, Richard Bogenberger, Joachim Hillebrand, Wolfgang Hintermaier, Andreas Winckler, Mehrnoush Rahmani,*
A Document Centric Approach for Supporting Incremental Deployment of Pervasive Applications *Fahim Kawsar, Kaori Fujinami and Tatsuo Nakajima*	Efficient Dissemination to Ensure Active Safety in Vehicular Networks *Nestor Mariyasagayam and Massimiliano Lenardi*

12:30 – 14:00 **Lunch break**
Buttery Vaults in the Trinity Dining Hall complex

14:00 – 15:30

Session 2 - Wireless Networks
Chair: Cristian Borcea
Room Joly

PAN-on-Demand: Leveraging Multiple Radios to Build Self-organizing, Energy-efficient PANs
Manish Anand and Jason Flinn

Modeling of the Channel-Hopping Anti-Jamming Defense in Multi-Radio Wireless Networks
Sherif Khattab, Daniel Mossé and Rami Melhem

Using Physical Layer Emulation to Optimize and Evaluate Mobile and Wireless Systems
Glenn Judd, Xiaohui Wang, Peter Steenkiste and Mei-Hsuan Lu

Session 2 - Human Factor Designs
Chair: Raja Sengupta
Room Maxwell

Constraint-based Context-Rule Representation and Risk Classification for Driver Assistance Systems
Simone Fuchs, Kyandoghere Kyamakya and Stefan Rass

Vehicle as a Co-driver
Nikola Serbedzija, Antonio Calvosa and Alessandro Ragnoni

Supporting Implicit Human-to-Vehicle Interaction: Driver Identification from Sitting Postures
Andreas Riener and Alois Ferscha

Estimation of Read-End Potential Conflict Using Time-To-Collision Model
Bahar Namaki Araghi, Jalil Shahi and Aliasghar Mehdizadeh

15:30 – 16:00 **Coffee break**
Hamilton basement

16:00 – 16:30 **One-minute Madness!**
Chair: Tatsuo Nakajima
Room Joly

16:30 – 18:30 **Demos and Posters**
Hamilton concourse and O'Reilly Institute

18:30 **Buses to banquet depart**

19:30 **Conference Banquet**

24:00 **Buses to city depart**

Wednesday 23rd July

9:00 – 10:30

Keynote Speech
The MIT DARPA Urban Challenge Team
John Leonard, MIT Department of Mechanical Engineering and MIT CSAIL

Chair: René Meier

Room Joly

This talk will describe Team MIT's performance in the 2007 DARPA Urban Challenge (DUC), which was held from October 26 though November 3rd in Victorville, CA. MIT was one of thirty five teams that participated in the DUC national qualifying event (NQE), and was one of eleven teams to qualify for the Urban Challenge final event based on our performance in NQE. Our team was one of six teams to complete the race, finishing in fourth place. We will review the design of our autonomous vehicle, Talos, a Land Rover LR3 equipped with a diverse range of lidar, vision, radar, and navigation sensors connected to a powerful blade cluster computer system. Our vehicle employed novel algorithmic approaches to perception, planning and control for the challenging task of autonomous driving in uncertain, dynamic environments. The performance of our system in the NQE and race events will be reviewed, and ideas for future research will be discussed. For more information, see http://grandchallenge.mit.edu

10:30 – 11:00

Coffee break
Hamilton basement

11:00 – 12:30

MobiQuitous

Session 3 - Pervasive Spaces
Chair: Tatsuo Nakajima

Room Joly

ScreenSpot: Multidimensional Resource Discovery for Distributed Applications in Smart Spaces
Marko Jurmu, Sebastian Boring and Jukka Riekki

Evaluation of Context Distribution methods via Bluetooth and WLAN: Insights Gained while Examining Battery Power Consumption
Alisa Devlic, Alan Graf, and Paolo Barone

User-Driven Mashups in Interactive Public Spaces
Danny Soroker, Young Sang Paik, Yeo Song Moon, Scott McFaddin, Chandra Narayanaswami, HyunKi Jang, Daniel Coffman, MyungChul Lee, JongKwon Lee and Jinwoo Park

ISVCS

Session 3 - On-board Embedded Systems
Chair: Andreas Riener

Room Maxwell

Topology Optimization of In-vehicle Multimedia Communication Systems
Jörg Sommer and Elias Doumith

Verifying Adaptive Cruise Control by Using Pi-Calculus and Mobility Workbench
Gabriel Ciobanu and Stefan Rusu

A Middleware Approach to Dynamically Configurable Automotive Embedded Systems
Richard Anthony, Paul Ward, DeJiu Chen, Achim Rettberg, James Hawthorne, Mariusz Pelc, and Martin Törngren

12:30 – 14:00

Lunch break
Buttery Vaults in the Trinity Dining Hall complex

14:00 – 15:30

Session 4 - User Interaction with Pervasive Systems
Chair: Ouri Wolfson
Room Joly

A Quantitative Approach to Non-intrusive Computing
Hao Chen and James P. Black

Designing Context-Aware In-Car Information Systems
Julian Masuhr, Florian Klompmaker, Christian Reimann, Karsten Nebe

Towards Mobility Oriented Interaction Design: Experiments in Pedestrian Navigation on Mobile Devices
Tetsuo Yamabe, Kiyotaka Takahashi and Tatsuo Nakajima

Session 4 - Image Processing Applications
Chair: Jörg Sommer
Room Maxwell

Automotive Blind-Zones: A Review of Legislation and the Use of Close-Range Camera Systems
Ciaran Hughes Martin Glavin, Edward Jones and Patrick Denn,

Region Of Interest Detection For Automotive Applications
Lorcan Browne, Edward Jones and Martin Glavin

Real-Time Identification of Vehicles on Highways by 3D Model Matching under Stop-and-Go Conditions
Francesco Micheli and Alessandro Mecocci

15:30 – 16:00

Coffee break
Hamilton basement

16:00 – 18:00

Panel
Room Joly

Session 5 - Vehicular Network Routing
Chair: Richard Anthony
Room Maxwell

Application Driven Routing for Vehicular Ad Hoc Networks – A Necessity
Olivia Brickley, Martin Koubek, Susan Rea and Dirk Pesch

Experimental Evaluation of Peer to Peer Applications in Vehicular Ad-hoc Networks
Eugenio Giordano, Abhishek Ghosh, Giovanni Pau and Mario Gerla

A Broadcast Vehicle to Vehicle Communication System in Railway Systems
Cristina Rico Garcia, Thomas Strang and Andreas Lehner

GeoDTN+NAV: A Hybrid Geographic and DTN Routing with Navigation Assistance in Urban Vehicular Networks
Jerome Harri, Pei-Chun Cheng, Jui-Ting Weng, Lung-Chih Tung, Mario Gerla and Kevin Lee

Thursday 24th July

9:00 – 10:30

Keynote Speech
Vehicular networks – quo veheris?
Hannes Hartenstein, University of Karlsruhe

Chair: Vinny Cahill

Room Joly

This talk provides thoughts on the past, present and future of vehicle-to-X communications. We survey research results achieved in the last ten years and try to assess how well the currently available approaches and solutions meet the challenges of providing improvements with respect to traffic safety, traffic efficiency and environmental friendliness. Key aspects addressed in this talk are the issues of how to avoid congestion of the radio channel and of how to show the impact of wireless vehicular communications on safety and efficiency. We also look at current traffic telematics systems and analyze how the upcoming vehicle-to-X communication will fit into the big picture of cooperative systems. Finally, we state some "grand challenges" of vehicular communications and present next steps, in particular with respect to field operational tests.

10:30 – 11:00

Coffee break
Hamilton basement

11:00 – 12:30

MobiQuitous

Session 5 - The Social Factor
Chair: Cormac Driver

Room Joly

Avoiding "Big Brother" Anxiety with Progressive Self-Management of Ubiquitous Computing Services
Kevin Feeney, Dave Lewis, Kris McGlinn, Declan O'Sullivan, Anne Holohan

Exploiting Schelling Behavior for Improving Data Accessibility in Mobile Peer-to-Peer Networks
Long Vu, Klara Nahrstedt and Matthias Hollick

Predicting Network Availability Using User Context
Upendra Rathnayake and Max Ott

ISVCS

Session 6 - Traffic and Service Mgmt
Chair: Francesco Piazza

Room Maxwell

Service Management for Co-operative Vehicular Systems
Gary O'Connor, Olivia Brickley and Dirk Pesch

A Management System for Improving Traffic Efficiency in Transportation Infrastructures
George Dimitrakopoulos, Giouli Kritikou, Panagiotis Demestichas and Eleni Dimitrellou

Traffic Generator for Evaluating the Accuracy of Traffic Recording Devices with Loop Detectors
Long-Bing Hsieh

12:30 – 14:00

Lunch break
Buttery Vaults in the Trinity Dining Hall complex

14:00 – 15:30	**Session 6 - Mobile Device Challenges** **Chair: Gregor Schiele** Room Joly	**Session 7 - Driver Information Systems** **Chair: Cormac Driver** Room Maxwell
	Accessing Speech Documents on Smartphones *Marcel Rosu*	Demonstrating hArtes project approach through an Advanced Car Information System *Stefania Cecchi, Francesco Piazza, Lorenzo Palestini, Paolo Peretti, Emanuele Moretti, Ferruccio Bettarelli, Ariano Lattanzi and Emanuele Ciavattini*
	Online Trajectory Data Reduction using Connection-preserving Dead Reckoning *Ralph Lange, Frank Dürr and Kurt Rothermel*	Real-Time Video Compression for Driver Assistance Camera Systems *Mehrnoush Rahmani, Holger Kloess, Wolfgang Hintermaier and Eckehard Steinbach*
	How to Edit Gigabyte XML Files on a Mobile Phone with XAS, RefTrees, and RAXS *Tancred Lindholm and Jaakko Kangasharju*	Vehicle Detection at Night Based on Tail-Light Detection *Ronan O'Malley, Martin Glavin and Edward Jones*
15:30 – 16:00	**Coffee break** Hamilton basement	

Friday 25th July

Full-day workshops, concurrent, please check individual workshop schedules:

1st International Workshop on Human Control of Ubiquitous Systems, Room Salmon

International Workshop on Middleware for Mobile Embedded Peer-to-Peer Systems, Room Synge

One-minute Madness /
Demonstration and Poster Session
Tuesday, 22nd July 2008
Trinity College Dublin

17:00 – 19:00

Demonstration

End User Tool for Deploying Smart Object Systems
Fahim Kawsar and Tatsuo Nakajima

Demonstration of a Mobility-enhanced Pedestrian Navigation on Mobile Devices
Tetsuo Yamabe, Kiyotaka Takahashi and Tatsuo Nakajima

ScreenSpot Resource Discovery for Smart Spaces and MobileVue Media Sharing Application
Marko Jurmu, Sebastian Boring and Jukka Riekki

Seamless Indoor/Outdoor Positioning with Streamspin
René Hansen, Christian S. Jensen, Bent Thomsen and Rico Wind

Exploring NFC Interactive Panel
Gustavo Ramirez Gonzalez, Mario Munoz Organero, Carlos Delgado Kloos and Angela Chantre Astaiza

RECOUP: Efficient Reconfiguration for Wireless Sensor Networks
Sarah Pennington, Adrian Waller and Timothy Baugè

Encryption-Based Access Control for Building Management
Laurent Gomez, Annett Laube, Vincent Ribiere, Alessandro Sorniotti, Christophe Trefois, Marco Valente and Patrick Wetterward

Community Multimedia Cards - CoMu Cards
Heiko Pfeffer, Steffen Krüssel and Stephan Steglich

Mobile, Ubiquitous Information Seeking as a Group: The iBingo Collaborative Video Retrieval System
Alan F. Smeaton, Colum Foley, Daragh Byrne and Gereth J.F. Jones

SimCon: A Tool for Modelling Context Sources for Rapid Evaluation of Pervasive Applications using Virtual Reality
Kris McGlinn, Eleanor O'Neill and David Lewis

Posters

Towards an Embedded Agent Model for Android Mobiles
Jorge Aguero, Miguel Rebollo , Carlos Carrascosa, Vicente Julián

Using Near Field Communication Technology to Achieve Near-Zero Configuration of Sensors
Nicolaj B. Christensen and Stefan Wagner

Sharing Mobile User Experiences with Context-Based Mashups
Luca Costabello, Oscar Rodriguez Rocha, and Laurent-Walter Goix

On the Effects of Detailed Mobility Models in Vehicular Network Simulations
Kun-chan Lan and Chien-Ming Chou

Application of Ubiquitous Technology to Ship Environments
Beom Jin Park, Bugeun Paik, Seongrak Cho, Dongkin Lee, Heejin Kang, and Jin Choi

Determining User Presence using Context in a Decentralized Unified Messaging System (IPAD-UMS)
Saguna, Prem Prakash Jayaraman, and Arkady Zaslavsky

IWCTS Schedule
Monday, July 21, 2008
Trinity College Dublin

9:00 am	**Introductory remarks**
	Ouri Wolfson and Peter Nelson
9:20 am	**Session 1 (4 papers): Invited papers**
	Some Research Questions for Computational Transportation Science *Glenn Geers* On the Feasibility of Large-Scale Automated Highways *Stacy Patterson, Bassam Bamieh, Amr El Abbadi and Mihailo Jovanovic* Data Management Challenges for Computational Transportation *Walid Aref and Mourad Ouzzani* TransDB - GPS Data Management with Applications in Collective Transport *Christian Jensen and Dalia Tiesyte*
10:40 am	**Coffee break (Hamilton basement)**
11:10 am	**Session 2 (4 papers): Data mining and prediction**
	Location Prediction Within the Mobility Data Analysis Environment Daedalus *Fabio Pinelli, Anna Monreale, Roberto Trasarti and Fosca Giannotti* On Extracting Commuter Information from GPS Motion Data *Dietmar Bauer, Markus Ray, Norbert Braendle and Helmut Schrom-Feiertag* Mining Sequential Association Rules For Traveler Context Prediction *Chad Williams, Abolfazl Mohammadian, Peter C. Nelson and Sean Doherty* A Multi-Agent Traffic Controller With Distributed Fuzzy Intelligence *Ahmet Sahan and Tatyana Yakhno*
12:30 pm	**Lunch (Buttery Vaults in the Trinity Dining Hall complex)**
2:00 pm	**Session 3 (4 papers): Architectures and privacy**
	Intelligent Traveler Assistant (ITA) Simulation Platform Design *James Haran, Abolfazl Mohammadian and Peter Nelson* Scalable and Efficient Car Communication Topology *Edmund Coersmeier and Robert Budde*

	A Real-time Integrated Transport/Communication/Database Architecture to Support Traffic Simulation *Kyriacos Mouskos, Umit Uyar, Akira Kawaguchi and Neville Parker* GPS Use by Households: Early Indicators of Privacy Preferences Regarding Ubiquitous Mobility Information Access *Caitlin Cottrill and Piyushimita (Vonu) Thakuriah*
3:20 pm	**Coffee break (Hamilton basement)**
3:50 pm	**Session 4 (2 papers): Data Aggregation**
	Data aggregation in VANETs: the VESPA approach *Bruno Defude, Thierry Delot, Sergio Ilarri, José Luis Zechinelli Martini and Nicolas Cenerario* SP-TAG*: Routing Algorithm in Non-stationary Transportation Networks *Betsy George and Shashi Shekhar*
4:30 pm	**Group discussion**
	What have we learned? Suggestions for future IWCTS workshops?
5:30 pm	**Workshop concludes**

SMPE Schedule
Monday, July 21, 2008
Trinity College Dublin

Workshop programme

10:15 – 10:30	Welcome and Opening *Giuseppe De Pietro (General Co-Chair)*
10:30 – 11:00	**Coffee break (Hamilton basement)**
11:00 – 12:30	**Session 1.** Chair: Antonio Coronato A Natural Pointing Technique for Semi-Immersive Virtual Environments *Luigi Gallo and Aniello Minutolo* A Study on Authentication/Authorization/Accounting and Roaming Mechanism in Pervasive Environment *Jong-Sik Moon, Im-Yeong Lee, Deok-Gyu Lee and Jong- Hyuk Park* Congestion Control Protocol for Wireless Sensor Networks Handling Prioritized Heterogeneous Traffic *Muhammad Mostafa Monowar, Md. Obaidur Rahman, Al-Sakib Khan Pathan and Choong Seon Hong*
12:30 – 14:00	**Lunch (Buttery Vaults in the Trinity Dining Hall complex)**
14:00 – 15:30	**Session2.** Chair: Giuseppe De Pietro The Home Device Authentication System Construction for Pervasive Home Network *Yun-kyung Lee, Deok Gyu Lee and Jong-wook Han* Tangible Security for Mobile Devices *Yuqun Chen and Michael Sinclair* An RFID-based application for handling the workflow of radioactive patients in a nuclear medicine department *Massimo Esposito and Gennaro Della Vecchia*
15:30 – 16:00	**Coffee Break (Hamilton basement)**
16:00 – 17:00	Concluding remarks

HUCUBIS Schedule
Friday, July 25, 2008
Trinity College Dublin

9:15 am	**Welcome and Introduction**
	Ouri Wolfson and Peter Nelson
9:30 am	**Session 1. Visualization and User Interfaces**
	A Study on User Acceptance of Error Visualization Techniques *Hendrik Lemelson, Thomas King, Wolfgang Effelsberg* Handwritten Character Recognition Using Orientation Quantization Based on 3D Accelerometer *Shiqi Zhang*
10:30 am	**Coffee break (Hamilton concourse)**
11:00 am	**Session 2. Basic Models and Services**
	Privacy-Friendly User Modelling for Smart Environments *Ibrahim Armac and Daniel Rose* A Multi-dimensional Model Enabling Autonomic Reasoning for Context-aware Pervasive Applications *Nearchos Paspallis, Konstantinos Kakousis, George A. Papadopoulos* Fundamental Services for Context-Sensitive Mobile Applications *Stephan Kopf, Thomas King, Philip Bostan, Hendrik Lemelson, Sina Deibert and Wolfgang Effelsberg*
12:30 pm	**Lunch (Dining hall)**
2:00 pm	**Session 3: Group Discussion & Closing**
	Proposed topic: user control in ubiquitous systems - need or not?
3:30 pm	**Coffee break (Hamilton concourse)**

MIMES Schedule
Friday, July 25, 2008
Trinity College Dublin

9:15 – 9:30 am	**Welcome and opening**
9:30 – 10:30	**Invited talk** PLASTIC: Providing Lightweight & Adaptable Service for pervasive Information & Communication *Valerie Issarny*
10:30 – 11:00	**Coffee break (Hamilton basement)**
11:00 – 12:30	**Session 1**
	A Formalization of the SMEPP Model in Maude *Francisco Duran, Francisco Gutierrez, Pablo Lopez, Ernesto Pimentel* A Secure Middleware for Wireless Sensor Networks *Claudio Vairo, Michele Albano, Stefano Chessa* Tailoring Service Discovery to Embedded P2P Systems *Antonio Brogi, Sara Corfini, Thaizel Fuentes*
12:30 – 14:00	**Lunch (Buttery Vaults in the Trinity Dining Hall complex)**
14:00 – 15:30	**Session 2**
	Implementation and Performance Analysis for Key Divergent and Evolution Protocols in Wireless Sensor Network *Han Chiang Tan, Jun Wen Wong, Jianying Zhou* General Security Concept for Embedded P2P System *Stefan Kraxberger, Udo Payer, Stefan Tillich* An Adaptive Middleware Applied to the Ad-hoc Nature of Cardiac Health Care *Gemma Power, Christopher Foley, Sasitharan Balasubramaniam, Dimtri Botvich*
15:30 – 16:00	**Coffee break (Hamilton basement)**
16:00 – 17:00	**Panel - Perspectives of mobile embedded peer-to-peer systems: trends and challenges**
	Panelists: Esteban Cabrera (TECNATOM, Spain), Valerie Issarny (INRIA, France), Jianying Zhou (I2R, Singapore)