



# IT&T 2009 **Ubiquitous and Green Computing**

9<sup>th</sup> Information Technology & Telecommunications Conference

October 22/23 2009, Gleeson Theatre, Dublin Institute of Technology, Kevin Street, D8, Ireland

<http://www.ittconference.ie/>

## Conference Programme

	Thursday 22 <sup>nd</sup> October	Friday 23 <sup>rd</sup> October
8:30 – 9:00	Conference Opening Dr Brian Norton President DIT	Tea/Coffee
9:15 – 9:30	Registration/ Tea/Coffee	
9:30 – 10:00	<b>KeyNote Address</b> Mike Kehoe IBM	<b>KeyNote Address</b> Dave Northey Microsoft Ireland
10:00 – 11:30	<b>Session 1</b> <i>Algorithms &amp; Data Mining</i>	<b>Session 5</b> <i>WIFI</i>
11:30 – 12:00	Tea/ Coffee	Tea/ Coffee
12:00 – 13:30	<b>Session 2</b> <i>E-Learning</i>	<b>Session 6</b> <i>Networks &amp; Sensor Networks</i>
13:30 – 14:30	Lunch	Lunch
14:30 – 16:00	<b>Session 3</b> <i>Mobile Applications</i>	Doctoral Symposium
16:00 – 16:30	Tea/ Coffee	Conference Close
16:30 – 17:20	<b>Session 4</b> <i>Green IT</i>	
17:20 – 18:00	<i>Posters Overview</i>	
19:30	Conference Dinner	

# Sessions – Day 1

## Algorithms & Data Mining, Chair: Declan O'Sullivan TCD, 10.00 – 11.30

**Paper 1: Sentiment Classification of Reviews Using SentiWordNet**

*Bruno Ohana - DIT, Brendan Tierney - DIT*

**Paper 2: Comparison of Feature Classification Algorithms for Activity Recognition Based on Accelerometer and Heart Rate Data**

*Dominic Maguire - WIT, Richard Frisby - WIT*

**Paper 3: An Improved CamShift Algorithm for Target Tracking in Video Surveillance**

*Chunrong Zhang – AIT, Yuansong Qiao – AIT, Enda Fallon – AIT, Changqiao Xu - AIT*

## E-Learning, Chair: Cristina Muntean NCI, 12.00 – 13.30

**Paper 1: Universal Design, Education and Technology**

*Ciaran O'Leary – DIT, Damien Gordon - DIT*

**Paper 2: Development of a Moodle Course Content Filter using Meta Data**

*Kyle Goslin - ITB, Markus Hofmann – ITB, Geraldine Gray – ITB*

**Paper 3: Context Aware Smart Classroom for Real Time Configuration of Computer Rooms**

*Paula Kelly – DIT, Peter Daly – DIT, Ciaran O'Driscoll - DIT*

**Paper 4: Sensing Learner Interest through Eye Tracking**

*Haolin Wei – DCU, Arghir-Nicolae Moldovan – NCI, Cristina Hava Muntean – NCI*

## Mobile Applications, Chair: David Tracey LYT, 14.30 – 16.00

**Paper 1: A study of mobile Internet capability trends to assess the effectiveness the W3C Default Delivery Context (DDC)**

*Ivan Dunn- ITT*

**Paper 2: Power Save-based Adaptive Multimedia Delivery Mechanism**

*David McMullin – DCU, Ramona Trestian – DCU, Gabriel-Miro Muntean - DCU*

**Paper 3: A Novel Protocol for Inter-Vehicular Video Transmission**

*Kevin O'Flynn – DCU, Hrishikesh Venkataraman – DCU, Gabriel-Miro Muntean – DCU*

## Green IT, Chair: Paul Doyle DIT, 16.30 – 17.20

**Paper 1: Desktop Virtualisation Scaling Experiments with VirtualBox**

*John Griffin – DIT, Paul Doyle – DIT*

**Paper 2: Optimising Security & Cryptography Across Diverse Environments**

*Martin Connolly – CIT, Fergus O'Reilly – CIT*

## Posters, Chair: John Kelleher DIT, 17.20 – 18.00

**Poster 1.** PlayLearn: Supporting Motivation through Gaming in E-Learning

**Poster 2.** Towards Integrated Hybrid Modelling and Simulation Platform for Building Automation

**Poster 3.** Designing Effective Smart Home Systems

**Poster 4.** Personalised Location-Based Services: Tracker Module

**Poster 5.** Intelligent Virtual Agent: Creating a Multi-Modal 3D Avatar Interface

**Poster 6.** Vocate: Auditory Interfaces for the LOK8 Project

**Poster 7.** A Mobile Multimodal Dialogue System for Location Based Services

**Poster 8.** Performance Optimisation of the AIT Campus Wireless Mesh Network Deployment

## Sessions – Day 2

### Wireless & WiFi, Chair: Enda Fallon, AIT 10.00 – 11.30

#### Paper 1: Efficient UWB indoor localisation using a ray-tracing propagation tool

Tam N. Huynh – DCU, Conor Brennan - DCU

#### Paper 2: VOSHM - A Velocity Optimized Seamless Handover Mechanism for WiMAX Networks

Chi Ma – AIT, Enda Fallon – AIT, Yansong Qiao - AIT

#### Paper 3: Parallelised EM wave propagation modelling for accurate network simulation

Catalin David – DCU, Conor Brennan – DCU, Olga Ormond – DCU, Marie Mullen - DCU

### Networks and Sensor Networks, Chair: Ciaran O'Driscoll, DIT 12.00 – 13.30

#### Paper 1: QoS-Aware IPTV Routing Algorithms

Patrick McDonagh – UCD, Philip Perry - UCD, Liam Murphy - UCD

#### Paper 2: Policy Refinement for Traffic Management in Home Area Network – Problem Statement

Annie Ibrahim – WIT, Micheal O Foghlu - WIT

#### Paper 3: Error Rate Based Switchover Analysis on Multi-homed Body Sensor Networks

Sadik Armagan – AIT, Enda Fallon – AIT, Yuansong Qiao – AIT

#### Paper 4: Building Fire Emergency Detection and Response Using Wireless Sensor Networks

Yuanyuan Zeng – UCC, Sean Murphy – UCC, Lanny Sitanayah – UCC, Thuy Truong - UCC

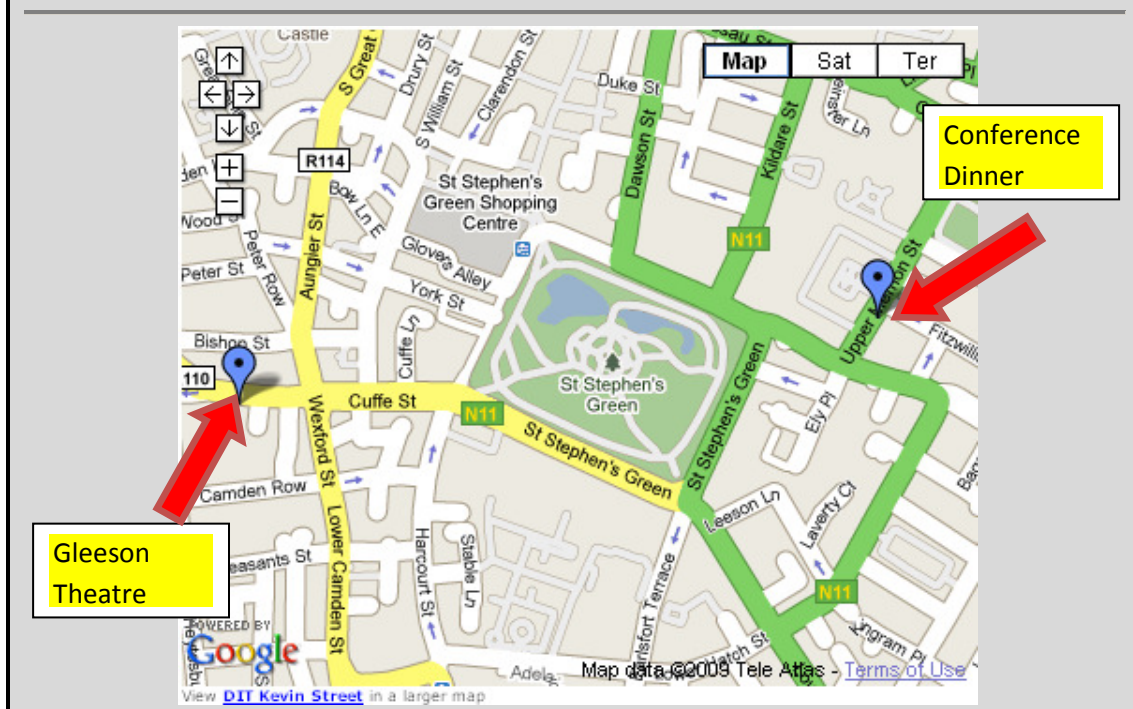
### Doctoral Symposium, Chair: Fred Mtenzi DIT, 14.30 – 16.00

Annie Ibrahim - WIT: Policy Refinement for Traffic Management in Home Area Network

Keyun Ruan – UCD: Cloud Forensic Architecture and Investigative Technique

Damien Gordon - DIT: A Unified Model of Learning Styles

Conference Dinner will be held at the Merrion Hotel: Thursday 22<sup>nd</sup> 7:30pm



## Posters

**Poster 1: PlayLearn: Supporting Motivation through Gaming in E-Learning**

*Ioana Ghergulescu - UPT, Cristina Hava Muntean - NCI*

**Poster 2: Towards Integrated Hybrid Modelling and Simulation Platform for Building Automation Systems; Application to HVAC**

*Alié El-Din Mady - UCC, Menouer Boubekour - UCC, Gregory Provan - UCC*

**Poster 3: Designing Effective Smart Home Systems**

*Paolo Carner - DIT*

**Poster 4: Personalised Location-Based Services: Tracker Module**

*Viacheslav Filonenko - DIT, James D. Carswell - DIT*

**Poster 5: Intelligent Virtual Agent: Creating a Multi-Modal 3D Avatar Interface**

*Mark Dunne - DIT, Brian MacNamee - DIT, John Kelleher - DIT*

**Poster 6: Vocate: Auditory Interfaces for the LOK8 Project**

*John McGee - DIT, Charlie Cullen - DIT*

**Poster 7: A Mobile Multimodal Dialogue System for Location Based Services**

*Niels Schütte - DIT, John Kelleher - DIT, Brian MacNamee - DIT*

**Poster 8: Performance Optimisation of the AIT Campus Wireless Mesh Network Deployment**

*Eduardo Brito - AIT, Robert Stewart - AIT, John Allen - AIT, Najmuddin Hassan - AIT*

### Information:

#### Live Streaming:

The conference will be streamed live over the internet for the duration of the conference.

<http://www.ittconference.ie/lifestream.php?ID2=16>

#### WiFi Access:



is available to those who the service available from their home institute.

Free WiFi is also provided within the conference hall for those without 

SSID: ITTConference

WPA Key: october2009

#### PC Services:

Open access PCs will be available within the Gleeson Theatre

#### Badges:

Badges for the conference are coloured as follows

RED: Chairs and Guests

BLUE: Organising Committee

WHITE: Delegates