IT&T 2010

10th Information Technology & Telecommunications Conference
October 21/22 2010, CoLab, Letterkenny Institute of Technology, Letterkenny, Donegal, Ireland
http://www.ittconference.ie/

Thursday 21st October			Friday 22nd October	
9:00 – 9:30		9:00 – 9:30	**Posters** Enterprise Ireland ARE Cluster Group	
9:30 – 10:00		9:30 – 10:00	**Conference Address** An Tánaiste, Mary Coughlan TD	
10:00 – 11:00		10:00 – 11:00	**Discussion Panel** The future of research in 3rd level education in Ireland and in the regions	
11:00 – 12:30	Postgraduate workshop	11:00 – 11:30	Tea/Coffee	
		11:30 – 13:00	**Session 3** *Wireless Sensor Networks I*	
12.30 – 14:00	Lunch and Registration	13.00 – 14:00	Lunch	
14:00 – 14:10	Welcome Address Mr Paul Hannigan, President LYIT	14:00 – 15:30	**Session 4** *Wireless Sensor Networks II*	
14:10 – 15:30	**Session 1** *Networking and Security*	14:10 – 15:30	**Conference Close**	
15:30 – 16:00	Tea/ Coffee			
16:00 – 17:30	**Session 2** *Visualisation and E-Learning*			
20:00 – 22:00	Conference Dinner **Radisson Hotel**			

Conference Programme

Sessions – Day 1

Lunch	12.30 – 14.00

Session 1: Networking and Security, *Chair Phelim Murnion - GMIT ,*   *14.00 – 15.30*

Paper 1: **Development of a Dataset Generator for Testing and Evaluating Knowledge Discovery Techniques and Forensic or Network Security Analysis Tools**
Stephen O'Shaughnessy – ITB, Geraldine Gray - ITB

Paper 2: **Impact of Topology Complexity on Congestion-based End-to-End Available Bandwidth Estimation Tools**
Brain Meskill – WIT, Alan Davy – WIT, Brendan Jennings - WIT

Paper 3: **Design Considerations for Future Multimedia Systems: A Comparison of Approaches Based on SIP and the Advanced Multimedia System**
Niall Murray – AIT, Yuansong Qiao – AIT, Brian Lee – AIT, Enda Fallon – AIT, Karunakar A Kotegar - AIT

Paper 4: **SEASMAP – SEA-based Simple Mutual Authentication Protocol**
Piotr Ksiazak – LYIT, William Farrelly - LYIT

Coffee/Tea Break	15.30 – 16.00

Session 2: Visualisation and E-learning, *Chair: Markus Hofmann – ITB,   16.00 – 17.30*

Paper 1: **Intelligent Character Recognition (ICR): A Case Study in Ballot Digit Recognition**
Pratheepan Yogarajah – UU, Joan Condell – UU, Siobhan Donaghy - UU

Paper 2: **Development of efficient image processing for use in Terahertz security**
Demian Tinkel – ITT Dublin, David White - ITT Dublin, Neil Trappe - NUIM

Paper 3: **New Trends in Automatic Assessment: Ontology Matching**
Maria Mitina – ITT Dublin, Patricia Magee – ITT Dublin, John Cardiff – ITT Dublin

Paper 4: **Course Resource Mind Map Tool for Moodle**
Kyle Goslin – ITB, Markus Hofmann - ITB

Paper 5: **Data and Knowledge Sharing Methods for Small Construction Consultant Practices in Ireland**
Rita Scully – LIT, Farzad Khosrowshahi – University of Salford

Conference Dinner,	*Radisson Hotel, 20.00 – 22.00*

Sessions – Day 2

Conference Address, an Tánaiste Mary Coughlan, TD 9.30

An Tánaiste will address the conference on government policy on research in 3rd level education

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Discussion Panel, *10.00 – 11.00*

A panel of leading academics and a representative of Enterprise Ireland will discuss the roadmap for HEI research both nationally and in the regions. It is expected to be a lively and informative discussion and it is hoped delegates will engage in the discussion.

Panel includes: Prof. Dermot Diamond (NCSR DCU), Prof. William Scanlon (ECIT QUB), Dr Richard Thorn (Director of Research IOTI), Dr Damien McKeever (CTO Kelsius) and Prof. Martin McGinnnity (ISRC UU) – to be confirmed

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Coffee/Tea Break *11.00 – 11.30*

Session 3: Wireless Sensor Networks I, *Chair: Jim Morrison - LYIT,* *11.30 – 13.00*

Paper 1:   **Incorporating Past Human Movement into Indoor Location Positioning Systems for Accurate Updates**

Eoghan Furey – UU, Kevin Curran – UU, Paul McKevitt - UU

Paper 2:   **Architecture for Billing in WiFi Mesh Networks**

Adriana Hava – UCD, Philip Perry – UCD, John Murphy - UCD

Paper 3:   **Wireless Sensor Networks - Smoothing algorithms for RSSI-based Device-free Passive Localisation**

Gabriel Deak – UU, Kevin Curran – UU, Joan Condell - UU

Lunch 13.00 – 14.00

Session 4: Wireless Sensor Networks II, *Chair: David Tracey - LYIT , 14.00 – 15.30*

Paper 1:   **Analysis of the Effect of Human Presence on a Wireless Sensor Network**

Ben Graham – LYIT, Christos Tachtatzis – LYIT, et al

Paper 2:   **Topology Selection Schema for Wireless Body Area Networks**

Marek Bykowski – LYIT, David Tracey – LYIT, Nick Timmons – LYIT, Jim Morrison - LYIT

Paper 3:   **Being Agile When It Really Matters: How ICT can Facilitate Rapid Response to Cardiac Emergencies**

Michael Lang – NUI Galway