

ITRE-2004 TECHNICAL PROGRAMME

Track: Information Networking

Tuesday June 29, 2004

10:30-12:00 Session: IN1: Network Protocols and Security Issues
Room: GCG09 Chair: Dr Demetri Kalymnios, London Metropolitan University

Packet Drop Avoidance for High-speed Network Transmission Protocol
Prof Guojun Jin
(Lawrence Berkeley National Laboratory, USA)

A Design of SERDL(Security Evaluation Rule Description Language) and Rule Execution Engine for Evaluating Security of IPv6 Network
Prof Hyeokchan Kwon
(Electronics and Telecommunications Research Institute, Republic of Korea)

14:30-16:00 Session: IN2: Wireless Issues 1
Room: GCG09 Chair: Dr Frank Wang, London Metropolitan University

The Effect of Imperfect Carrier Recovery on the Performance of the Diversity Antenna Selection Technique in Wireless Channels Utilizing DSTM
Le Chung Tran, Dr Tadeusz A. Wysocki, Jennifer Seberry
(University of Wollongong, Australia),
Prof Alfred Mertins
(Institute of Physics, University of Oldenburg, Germany)

Multi-modulation Schemes to Increase the Rate of Space-Time Block Codes in Rayleigh Fading Channels
Le Chung Tran, Dr Tadeusz A. Wysocki, Jennifer Seberry
(University of Wollongong, Australia),
Prof Alfred Mertins
(Institute of Physics, University of Oldenburg, Germany)

16:15-17:45 Session: IN3: Wireless Issues 2
Room: GCG09 Chair: Dr Hassan Kazemian, London Metropolitan University

A Mechanism to Defend SYN Flooding Attack based on Network Measurement System
Xiaofeng Qiu
(PLA University of Science & Technology, China)

Wireless Information Agent Powered by AspTear Object
Vedat Agolli, Dr Na Helian, Dr Frank Wang, Wenjun Yang
(London Metropolitan University, UK)

Track: **Multimedia Technology**

Tuesday June 29, 2004

10:30-12:00 Session: MT1: Gaming Technologies for Education
Room: GCG08 Chair: Martin Wright, GameLab London Director, London Metropolitan University

Make it Machinima! Incorporating Gaming Technologies into E-training Application Creations

Prof Tim Zapart, Raymond Li, Kathy Blashki
(Monash University, Australia)

The Use Of Games Engines To Create Practical Learning Environments

Matthew Butler
(Monash University, Australia)

Integrating Diverse IT Areas: Bridging the Gap between Multimedia Kiosks and the Wireless World

Prof Stan Kurkovsky, B. Bhagyavati
(Columbus State University, USA)

14:30-16:00 Session: MT2: Video Streaming Issues
Room: GCG08 Chair: Prof Algirdas Pakstas, London Metropolitan University

Frames-Ensured-Delivery Algorithm for Smoothing and Multiplexing Pre-recorded Videos

Yaakov Bembaron, Dr Ofer Hadar
(Ben-Gurion University, Israel)

Hybrid Error Concealment in Digital Compressed Video Streams

Dr Ofer Hadar, Merav Huber, Revital Huber
(Ben-Gurion University, Israel)

The Effect of Frame Rate and Frame Size on the Perceived Compressed Video Quality Transmitted over Lossy IP Networks

Ron Shmueli, Dr Ofer Hadar, Revital Huber
(Ben-Gurion University, Israel)

16:15-17:45 Session: MT3: Handling of Video, Audio and 3D GIS Data
Room: GCG08 Chair: Dr Ofer Hadar, Ben-Gurion University, Israel

An Efficient Data Hiding Approach for Video Retrieval on Demand

Yulin Wang
(Queen Mary College, University of London, UK)

3D Urban Traffic System Simulation Based on Geo-data

Dr Tingkai Wang, Dr Shanyu Tang, Dr Peiyuan Pan
(London Metropolitan University, UK)

Real-time Performance Measures of Perceptual Audio Coding

Eros Pasero, Alfonso Montuori
(Politecnico di Torino, Italy)

Track: Research/Education Methodology

Tuesday June 29, 2004

14:30-16:00 Session: REM1: Models and Methods for Higher Education
Room: GC108 Chair: Prof Tom Boyle, LTRI Director, London Metropolitan University

*A Metaprogramming-Based Model for Generation of the
eLearning-Oriented WEB Pages*

Marijus Montvilas, Vytautas Stuikys, Robertas Damasevicius
(Kaunas University of Technology, Lithuania)

SPDemo - A Novel Software Tool for Teaching Multimedia Signal Processing

Yair Moshe, Nimrod Peleg
(Technion, IIT, Israel)

New Models for Higher Educational Curricula

Dr Maurizio Marchese, Marco Ronchetti
(University of Trento, Italy)

16:15-17:45 Session: REM2: Methodologies for Teaching Programming Skills
Room: GC108 Chair: Prof Robert Whitrow, London Metropolitan University

Improving the Teaching of Programming Using a VLE Enhanced with Learning

Prof Tom Boyle, Claire Bradley, Peter Chalk
(London Metropolitan University, UK)

*Learning by Competitions: Olympiads in Informatics as a Tool for Training
High-Grade Skills in Programming*

Dr Valentina Dagiene, Jurate Skupiene
(Institute of Mathematics and Informatics, Lithuania)

Automated Peer-Assisted Assessment of Programming Skills

Stuart Lewis, Phil Davies
(University of Glamorgan, UK)

Wednesday June 30, 2004

09:30-11:00 **Session:** **REM3: Technologies and Architectures for Interactive Learning**
Room: GC108 **Chair:** Ray Jones, London Metropolitan University

*Fixed Broadband Wireless Access Network Architecture for On-demand
Interactive Tutorials*

Dr Bernard Fong
(Auckland University, New Zealand)

Multi-Agent Security Service Architecture for Mobile Learning

Dr Mariana Hentea
(Purdue University at Calumet, USA)

Mozilla Internet Application Suite: Developing for Education

Tatjana Jevsikova, Dr Valentina Dagiene, Dr Gintautas Grigas
(Institute of Mathematics and Informatics, Lithuania)

11:15-12:45 **Session:** **REM4: Use of On-Line Resources for Interactive Learning**
Room: GC108 **Chair:** Dr Valentina Dagiene, Institute of Mathematics and Informatics, Lithuania

An Online Resource for the Introductory Programming Class

Prof Curt Hill, Brian Slator, Lisa Daniels
(Valley City State University, USA)

*Online Discussions in Computer Science Courses: How to Make Them an
Effective Learning Tool*

Prof Stan Kurkovsky, B. Bhagyavati, Wayne Summers, Christopher Whitehead
(Columbus State University, USA)

*SQUADgroups - A Novel Tool for Capturing Student's Online Learning Levels
of Engagement with Small Groups*

Peter Oriogun
(London Metropolitan University, UK)

Thursday July 1, 2004

09:30-11:00 **Session:** **REM5: Methods and Tools for Engineering Education**
Room: GC108: **Chair:** Narayana Jayaram, London Metropolitan University

Enhanced Methods of Coursework Provision in Computer Networks

William Buchanan, Lionel Saliou
(Napier University, UK)

Web Engineering in Internet Degrees

Gary Griffiths, Mike Lockyer, Briony Oates, Barry Hebbron
(University of Teesside, UK)

Track: **Systems, Applications and Tools**

Tuesday June 29, 2004

14:30-16:00 Session: SAT1: Assessment Issues
Room: GCG10 Chair: Dr Romas Mikusauskas, London Metropolitan University

Student Modeling with Timed Assessment Information
Hairong Liu, Prof Hongchi Shi, Yi Shang, Su-Shing Chen
(University of Missouri-Columbia, USA)

Automatic Assessment of the Content of Essays Based on Course Materials
Tuomo Kakkonen, Prof Erkki Sutinen
(University of Joensuu, Finland)

A Web Based Tool for Assessment and Self-Assessment
Gennaro Costagliola, Filomena Ferrucci, Prof Vittorio Fuccella, Francesco Gioviale
(Università di Salerno, Italy),

16:15-17:15 Session: SAT2: Agent Technology
Room: GCG10 Chair: Dr John Cook, LTRI, London Metropolitan University

Identifying Agents for Active Workspaces
Prof Igor Hawryszkiewicz
(University of Technology, Sydney, Australia)

Companion Agents for Enabling B2B Culture in SMBs
Enrique Espinosa, Angeles Junco, Jorge Ramirez Uresti, Fernando Ramos
(Monterrey Institute of Technology, Mexico)

Wednesday June 30, 2004

09:30-11:00 Session: SAT3: E-Learning Environments and Tools
Room: GCG10 Chair: Peter Oriogun, London Metropolitan University

An Integrated Programming Environment for Undergraduate Computing Courses
Dr Colin Price
(University College Worcester, UK)

Reusable E-learning Development: Case Studies, Practices and Issues of Awareness for Knowledge-based Organisations
Victor Chang
(University of Cambridge, UK)

Track: Knowledge Management

Wednesday June 30, 2004

09:30-11:00 **Session:** **KM1: Use of Knowledge Management for Education Purposes**
Room: GCG09 **Chair:** Dr Farhi Marir, London Metropolitan University

*A Case Study of Knowledge Discovery on Academic Performance,
Student Desertion and Student Retention*

Prof Addisson Salazar-Afanador, Jorge Gosálbez-Castillo, Ignacio Bosch-Roig,
Ramón Miralles-Ricós, Luis Vergara-Domínguez
(Universidad Politécnica de Valencia, Spain)

*Using Human Memory Structures to Model Knowledge within
Algebra Virtual Laboratory*

Mehdi Najjar, André Mayers
(University of Sherbrooke, Canada)

11:15-12:45 **Session:** **KM2: Indexing and Retrieval Issues**
Room: GCG09 **Chair:** Dr Karim Ouazzane, London Metropolitan University

*Rhetorical Structure Theory for Content-Based Indexing and
Retrieval of Web Documents*

Dr Farhi Marir
(London Metropolitan University, UK)

*Object-Orientation and Description Logics Techniques for Implementing
The Indexing and Retrieval of Surveillance Video Content*

Kamel Zerzour
(London Metropolitan University, UK)

Thursday **July 1, 2004**

09:30-11:00 **Session:** **KM3: Issues in Knowledge Management**
Room: GCG09 **Chair:** Prof Igor Hawryszkiewicz, Univ.of Technology, Australia

On Technology for Engineering Knowledge Refinement

Yuh-Jen Chen
(National Cheng Kung University, Taiwan R.O.C.)

*Monitoring Information and Data Flows Using Triggers in a
Dynamic Workflow Environment*

Kanana Ezekiel
(London Metropolitan University, UK)

An Adapted Framework and Case-based Reasoning for Business Process Redesign

Dr Farhi Marir
(London Metropolitan University, UK)

Track: **Human Computer Interaction**

Wednesday June 30, 2004

09:30-11:00 **Session:** **HCI1: Human Collaboration and Communication Issues 1**
Room: GCG08 **Chair:** Dr Jenny Le Peuple, London Metropolitan University

An Approach for the Creation of Collaborative Environments

Prof Giuseppe Scanniello, Gennaro Costagliola, Filomena Ferrucci, Giuseppe Polese
(Università di Salerno, Italy)

*The Initiative Experiments about Mobile Language and Its Interface for
Ubiquitous World of Communication*

Prof Jong-Hyoun Kim
(Kaywon School of Art & Design, Republic of Korea)

11:15-12:45 **Session:** **HCI2: Human Collaboration and Communication Issues 2**
Room: GCG08 **Chair:** Dr Vassil Vassilev, London Metropolitan University

A System for the Generation of 3D-learning Simulations

Gennaro Costagliola, Sergio Di Martino, Filomena Ferrucci, Michele Risi
(Università di Salerno, Italy)

Enhancing Human Web System Interactions in Terms of Adoption Modeling

Steve Hansen
(University of Western Sydney, Australia)

Thursday July 1, 2004

09:30-11:00 **Session:** **HCI3: Human Collaboration and Communication Issues 3**
Room: GCG08 **Chair:** Dr Eunjoo Lee, London Metropolitan University

Internationalization of Open Source Software: Framework and Some Issues

Rimgaudas Laucius, Dr Valentina Dagiene
(Institute of Mathematics and Informatics, Lithuania)