INC 2004
Organised by the Network Research Group, University of Plymouth

6 – 9 July 2004
Sherwell Centre
University of Plymouth

Programme
Overview

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<th>Date</th>
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<tr>
<td>Monday 5th July, 2004</td>
<td>Registration (17:00 - 19:00)</td>
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<td>Tuesday 6th July, 2004</td>
<td>Registration (from 08:30) Opening ceremony Paper presentations Welcome reception</td>
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<td>Wednesday 7th July, 2004</td>
<td>Paper presentations Conference dinner</td>
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<td>Thursday 8th July 2004</td>
<td>Paper presentations Boat trip &amp; buffet/barbeque</td>
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<tr>
<td>Friday 9th July 2004</td>
<td>Paper presentations Poster presentations Closing session</td>
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Social Events

**Tuesday 6th July, 2004 – Welcome reception**
We will assemble at the Sherwell Conference Centre at 18:30 and walk to the reception venue.

**Wednesday 7th July, 2004 – Conference dinner**
We will assemble at the Sherwell Conference Centre at 18:15 for a coach departure to Dartington Hall.

**Thursday 8th July, 2004 – Boat trip & buffet/barbeque**
Depart from Sherwell Conference Centre at 17:30 and walk to the Mayflower Steps for the boat departure at 18:00.
NB it is advisable to bring a jacket for the boat trip as we will be on the boat until around 22:00.
We should arrive back at the University at approximately 22:30.

Please ensure your mobile phone / pager / watch alarms are turned off during the conference sessions.
Tuesday 6th July 2004
09:00 Introduction and welcome to INC 2004
Steven Furnell, Conference Chairman
The Mobile Millennium - progress report on mobile data uptake
Mike Short, Chairman – Mobile Data Association

Coffee/Tea Break

Session 1: Mobility [10:30 - 12:30]
Chair: Paul Reynolds, Orange
Mobility Prediction for Seamless Mobility in Wireless Networks
R.C. Doss, A. Jennings and N. Shenoy (Australia, USA)
Hierarchical AAA Architecture for User and Multimedia Service Authentication in Hybrid 3G/WLAN Networking Environments
T. Dagiuklas, C. Politis, G. Bigini, Y. Rebani, D. Sisalem and S. Xarhoulacos (Greece, UK, Italy, Germany)
A Location-aware Prefetching Mechanism
H. Kirchner, R. Krummenacher, D. Edwards-May and T. Risse (Germany, France)
IP Paging Scheme Considering Mobile Node’s Traffic and Mobility in Mobile IPv6
B.K. Lee and M. Riguidel (Korea, France)

Session 2: Security [14:00 - 15:30]
Chair: Vasilios Katos, University of Portsmouth
A Correlation Framework for Continuous User Authentication Using Data Mining
Realtime Intrusion-Forensics: Adapted for Stack-based Intrusion Detection
U. Payer (Austria)
PIDS: A Privacy Intrusion Detection System
H.S. Venter, M.S. Olivier, J.H.P. Eloff (South Africa)

Coffee/Tea Break

Session 3: Web Technologies [16:00 - 17:00]
Chair: Michael Evans, University of Reading
Introducing Distributed Computing Into Everyday Life
D.V. Ushakov and N.G. Miloslavskaya (Russia)
An Efficient Mechanism for Adaptive Resource Discovery in Grids
J. Salter and N. Antonopoulos (UK)

Session 3: Networks [16:00 - 17:30]
Chair: Hein Venter, University of Pretoria
Risk Cluster Analysis for Network Segmentation
V. Kates (UK)
Communication Complexity of Tree-Based Multicast Re-keying
L. Morales, I.H. Sudborough, M. Eltoweissy and M.H. Heydari (USA)
The Uses and Limitations of Unidirectional Network Bridges in a Secure Electronic Commerce Environment
J. Slay and B. Turnbull (Australia)

19:00 Welcome Reception hosted by the Deputy Lord Mayor of Plymouth
Depart from the conference venue at 18:30
**Coffee/Tea Break**

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<td><strong>Session 1: Security [10:30 - 12:30]</strong></td>
<td><strong>Session 1: Applications [10:30 - 12:30]</strong></td>
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<tr>
<td>Chair: Vassilis Prevelakis, Drexel University</td>
<td>Chair: Matthew Warren, Deakin University</td>
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<tr>
<td>A Model for Dynamic Access Control in Ubiquitous Environments</td>
<td>Text appeal: The psychology of SMS texting and its implications for the design of mobile phone interfaces</td>
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<tr>
<td>A. Seleznyov and S. Hailes (UK)</td>
<td>F.J.M. Reid and D. Reid (UK)</td>
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<td>Access control for networked Web Services</td>
<td>Knowledge Broker Network Based On Communication between Humans</td>
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<td>M. Coetzee and J.H.P. Eloff (South Africa)</td>
<td>R. Loew, U. Bleimann, B. Murphy (Ireland, Germany)</td>
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<td>Using RBAC for the mobile agent authorization problem</td>
<td>Non Business Use of the WWW in Three Western Australian Organisations</td>
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<td>D. Baltatzis, S. Kortesis, C. Georgiadis, C. Ilioudis and G. Pangalos (Greece)</td>
<td>C. Valli (Australia)</td>
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<td>Access Control System for Ad-Hoc Networks Based on Encapsulated Documents</td>
<td>An Evaluative Methodology for Virtual Communities Using Web Analytics</td>
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<td>M.C. Morogan (Sweden)</td>
<td>A.D. Phippen (UK)</td>
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**Lunch Break – BABBAGE REFECTORY**

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<td><strong>Session 2: Web Technologies [14:00 - 15:30]</strong></td>
<td><strong>Session 2: Networks [14:00 - 15:30]</strong></td>
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<tr>
<td>Chair: Udo Bleimann, University of Applied Sciences</td>
<td>Chair: Carsten Griwodz, University of Oslo</td>
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<td>An Audio Stream Redirector for the Internet Speaker</td>
<td>An Efficient Dynamic Weight Coefficient QoS Routing Algorithm</td>
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<td>A Random Walk Web Crawler with Orthogonally Coupled Heuristics</td>
<td>On Demand Distributed Unicast Routing Algorithm with Multiple Quality-of-Service Parameters</td>
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<td>A. Walker and M.P. Evans (UK)</td>
<td>K.A. Koundinya, V.N. Sastry and A. Negi (India)</td>
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<td>Web Services: Opportunities and Obstacles in the path of its early adoption</td>
<td>QoS Support for Video Traffic via Router-based Control Mechanisms</td>
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<td>P. Joshi, H. Singh and A.D. Phippen (UK)</td>
<td>Y. Bai and M.R. Ito (Canada)</td>
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**Coffee/Tea Break**

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<td><strong>Session 3: Security [16:00 - 17:00]</strong></td>
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<tr>
<td>Chair: Paul Dowland, University of Plymouth</td>
<td>Chair: Martin Olivier, University of Pretoria</td>
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<tr>
<td>The Interaction Between Mobile IP v6 and Firewalls</td>
<td>Defining Trust in Peer-to-Peer (P2P) Communication</td>
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<td>L. Gashash (UK)</td>
<td>F.K. Hussain, E. Chang and T. Dillon (Australia)</td>
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<td>A Framework for Monitoring Insider IT Misuse</td>
<td>(Presented by V. Potdar)</td>
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<td>A. Phyo (UK)</td>
<td>Architectural specifications and design for an automated vulnerability resolver</td>
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<td>Behavioural Profiling In Wireless Networks</td>
<td>A. Al-Ayed, S.M. Furnell, D. Zhao, I. Barlow and M. Tomlinson (UK)</td>
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<td>I. Zincir (UK)</td>
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**19:00 Conference Banquet & Tour**

Including presentation of best paper award

Depart from the conference venue (by coach) at 18:15
Thursday 8th July 2004
The Threat landscape & Security Trends
Nigel Beighton, Director of CDI Initiative - Symantec

### Hall One

**Session 1: Security** [10:30 - 12:30]
Chair: Craig Valli, Edith Cowan University

- Digitally Signed Documents – Ambiguities and Solutions
  A. Alsaid and C.J. Mitchell (UK)
- Addressing Authentication and Authorization Issues in the Grid
  G. Angelis, S. Gritzalis and C. Lambrinoudakis (Greece)
- Enhancing certified email service for timeliness and multicasting
  J.A. Onieva, J. Zhou and J. Lopez (Spain, Singapore)
- System Survivability: a New Security Concept
  J. Redman, M. Warren and W. Hutchinson (Australia)

### Hall Two

**Session 1: Networks** [10:30 - 12:00]
Chair: Phil Brooke, University of Plymouth

- A New Distributed Link-State Routing Protocol with Enhanced Traffic Load Balancing
  V. Grout, J. Davies, M. Hughes and N. Houlden (UK)
- MAP-SOAP Interworking in Future Service-Oriented Wireless Networks
  A. Diehl, W. Fuhrmann and G. Siegmund (Germany)
- An Advanced Hybrid Protection Algorithm in Optical Internet
  B.M. Song and H.S. Park (Korea)

### Lunch Break – BABBAGE REFECTORY

**Session 2: Security** [14:00 - 16:00]
Chair: William Hutchinson, Edith Cowan University

- Three-way authentication framework for IEEE 802.11b networks
  H. A. Eneh, H. Singh, and O. Gemikonakli (UK)
- An Integrated Identity Verification System for Mobile Terminals: System Components and Their Distribution
  O. Mazhelis, J. Markkula and J. Veijalainen (Finland)
- Disguising Text Cryptography using Image Cryptography
  V. Potdar and E. Chang (Australia)
- An Approach to the Mobile Agent Malicious Host Problem
  I. Stengel, K.P. Fischer, U. Bleimann and J. Stynes (Ireland, Germany)

**Session 2: Applications** [14:00 - 15:30]
Chair: Paul Dowland, University of Plymouth

- Multi-Dimensional-Personalisation for the online and offline world
  S.W. Schilke, U. Bleimann, S.M. Furnell and A.D. Phippen (UK, Germany)
- Atlantis University – A New Pedagogical Approach beyond E-Learning
  U. Bleimann (Germany)
- Using Workflow Middleware in Component Orientated Software Engineering
  P. Rushe and J. Stynes (Ireland)

### Coffee/Tea Break

**Boat Trip and River-Side Barbecue**
Depart from the conference venue at 17:30
NB it is advisable to bring a jacket for the boat trip as we will be on the boat until around 10pm.
Change of Schedule

Friday 9th July 2004

Hall One

Session 1: Posters  [09:30 - 10:15]
Chair: Vic Grout, University of Wales

"Secure Network Protocols" Electronic Tutorial
N. Jurov, N. Miloslavskaya and A. Tolstoy (Russia)

The EAP smartcard
P. Urien (France)

Intrusion Detection in Mobile Ad Hoc Networks
S. Razak (UK)

Coffee/Tea Break

Session 2: Security  [10:30 - 12:00]
Chair: Javier Lopez, University of Malaga

Visibly Invisible: Ciphertext as a Steganographic Carrier
V. Potdar and E. Chang (Australia)

A Lightweight Distributed Group Authentication Mechanism
L.A. Martucci, T.C.M.B. Carvalho and W.V. Ruggiero (Brazil)

A Testbed For The Evaluation Of QoS Provisioning In WCDMA Based 3G Wireless Networks
A.Y. Elbatiji, T. Rachidi, and H. Bouzekri (Morocco)

End of Conference
Notes
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INC 2006
Organised by the Network Research Group, University of Plymouth

July 2006

www.inc2006.org