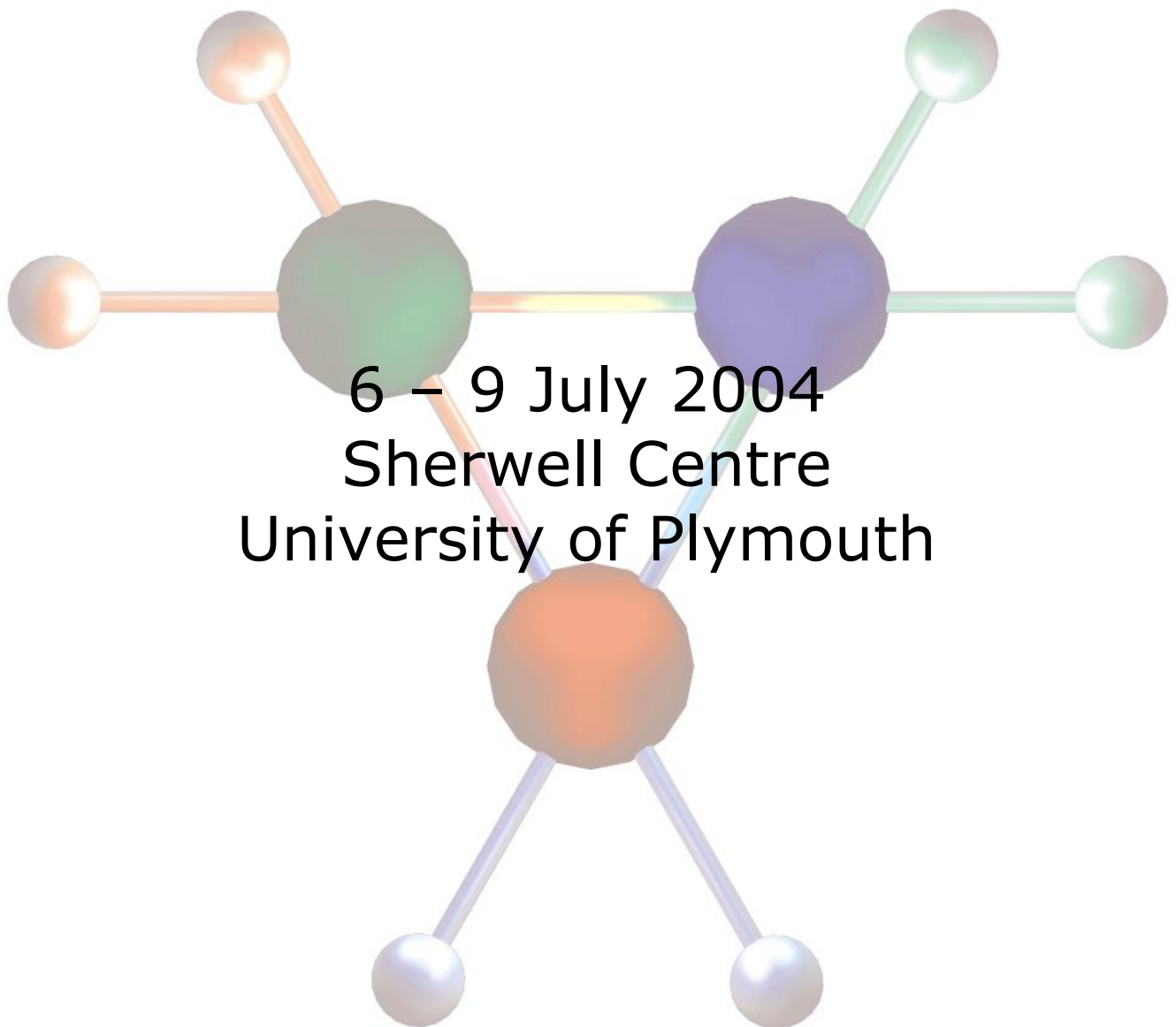


INC 2004

Organised by the Network Research Group, University of Plymouth



6 – 9 July 2004
Sherwell Centre
University of Plymouth

Programme

Overview

Monday 5th July, 2004	Registration (17:00 - 19.00)
Tuesday 6th July, 2004	Registration (from 08:30) Opening ceremony Paper presentations Welcome reception
Wednesday 7th July, 2004	Paper presentations Conference dinner
Thursday 8th July 2004	Paper presentations Boat trip & buffet/barbeque
Friday 9th July 2004	Paper presentations Poster presentations Closing session

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

Hall One

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. Rehani, 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)

Hall Two

Session 1 : Networks [10:30 - 12:30] Chair: Bogdan Ghita, University of Plymouth

Minimising Relays in Wireless Networks
V. Grout (UK)
Initial result of a formal analysis of DCCP connection management
S. Vanit-Anunchai and J. Billington (Australia)

Global visualization of experiments in 802.11 multi-hops ad hoc networks
D. Dhoutaut, Q. Vo and I. Guérin Lassous (France)
A Flexible Cluster-Based Approach for Architecting Wireless Sensor Networks
B. Galvão, F.C. Delicato, P.F. Pires, L.F. Rust da Costa Carmo and L. Pirmez (Brazil)

Lunch Break – BABBAGE REFECTORY

Session 2 : Security [14:00 - 15:30] Chair : Vasilios Katos, University of Portsmouth

A Correlation Framework for Continuous User Authentication Using Data Mining
H. Singh, S.M. Furnell, P.S. Dowland, B. Lines and S. Kaur (UK, Malaysia)
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)

Session 2 : Networks [14:00 - 15:30] Chair : Benn Lines, University of Plymouth

mFDDT+: An Integrated Approach for Enhancing QoS for Networked Video
Y. Bai and M.R. Ito (Canada)
Translating Scalable Video Streams from Wide-Area to Access Networks
C. Griwodz, S. Fiksdal and P. Halvorsen (Norway)
Optimising Video Layers to the Available Bandwidth Based for Packet Networks
A. Thakur, B. Lines, P. Reynolds, M. Knahl and S.M. Furnell (UK)

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. Katos (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

Wednesday 7th July 2004

Service Orientation - IT's last chance to make good
Peter Matthews, Technology Strategist - Computer Associates

Coffee/Tea Break

Hall One

Session 1 : Security [10:30 - 12:30] **Chair : Vassilis Prevelakis, Drexel University**

A Model for Dynamic Access Control in Ubiquitous Environments
A. Seleznyov and S. Hailes (UK)

Access control for networked Web Services
M. Coetzee and J.H.P. Eloff (South Africa)

Using RBAC for the mobile agent authorization problem

D. Baltatzis, S. Kortesis, C. Georgiadis, C. Ilioudis and G. Pangalos (Greece)

Access Control System for Ad-Hoc Networks Based on Encapsulated Documents

M.C. Morogan (Sweden)

Hall Two

Session 1 : Applications [10:30 - 12:30] **Chair: Matthew Warren, Deakin University**

Text appeal: The psychology of SMS texting and its implications for the design of mobile phone interfaces

F.J.M. Reid and D. Reid (UK)

Knowledge Broker Network Based On Communication between Humans

R. Loew, U. Bleimann, B. Murphy (Ireland, Germany)

Non Business Use of the WWW in Three Western Australian Organisations

C. Valli (Australia)

An Evaluative Methodology for Virtual Communities Using Web Analytics

A.D. Phippen (UK)

Lunch Break – BABBAGE REFECTORY

Session 2 : Web Technologies [14:00 - 15:30] **Chair : Udo Bleimann, University of Applied Sciences**

An Audio Stream Redirector for the Internet Speaker

I. Mandrekar, V. Prevelakis and D.M. Turner (USA)

A Random Walk Web Crawler with Orthogonally Coupled Heuristics

A. Walker and M.P. Evans (UK)

Web Services: Opportunities and Obstacles in the path of its early adoption

P. Joshi, H. Singh and A.D. Phippen (UK)

Session 2 : Networks [14:00 - 15:30] **Chair : Carsten Griwodz, University of Oslo**

An Efficient Dynamic Weight Coefficient QoS Routing Algorithm

Y. Zheng, J. Tian, Z.F. Liu and W.H. Dou (China)

On Demand Distributed Unicast Routing Algorithm with Multiple Quality-of-Service Parameters

K.A. Koundinya, V.N. Sastry and A. Negi (India)

QoS Support for Video Traffic via Router-based Control Mechanisms

Y. Bai and M.R.Ito (Canada)

Coffee/Tea Break

Session 3 : Posters [16:00 - 17:00] **Chair : Paul Dowland, University of Plymouth**

The Interaction Between Mobile IP v6 and Firewalls

L. Gashash (UK)

A Framework for Monitoring Insider IT Misuse

A. Phyo (UK)

Behavioural Profiling In Wireless Networks

I. Zincir (UK)

Session 3 : Security [16:00 - 17:00] **Chair : Martin Olivier, University of Pretoria**

Defining Trust in Peer-to-Peer (P2P) Communication

F.K. Hussain, E. Chang and T. Dillon (Australia)

(Presented by V. Potdar)

Architectural specifications and design for an automated vulnerability resolver

A. Al-Ayed, S.M. Furnell, D. Zhao, I. Barlow and M. Tomlinson (UK)

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

Coffee/Tea Break

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. Lambrinouidakis (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. Elbatji, T. Rachidi, and H. Bouzekri (Morocco)

End of Conference

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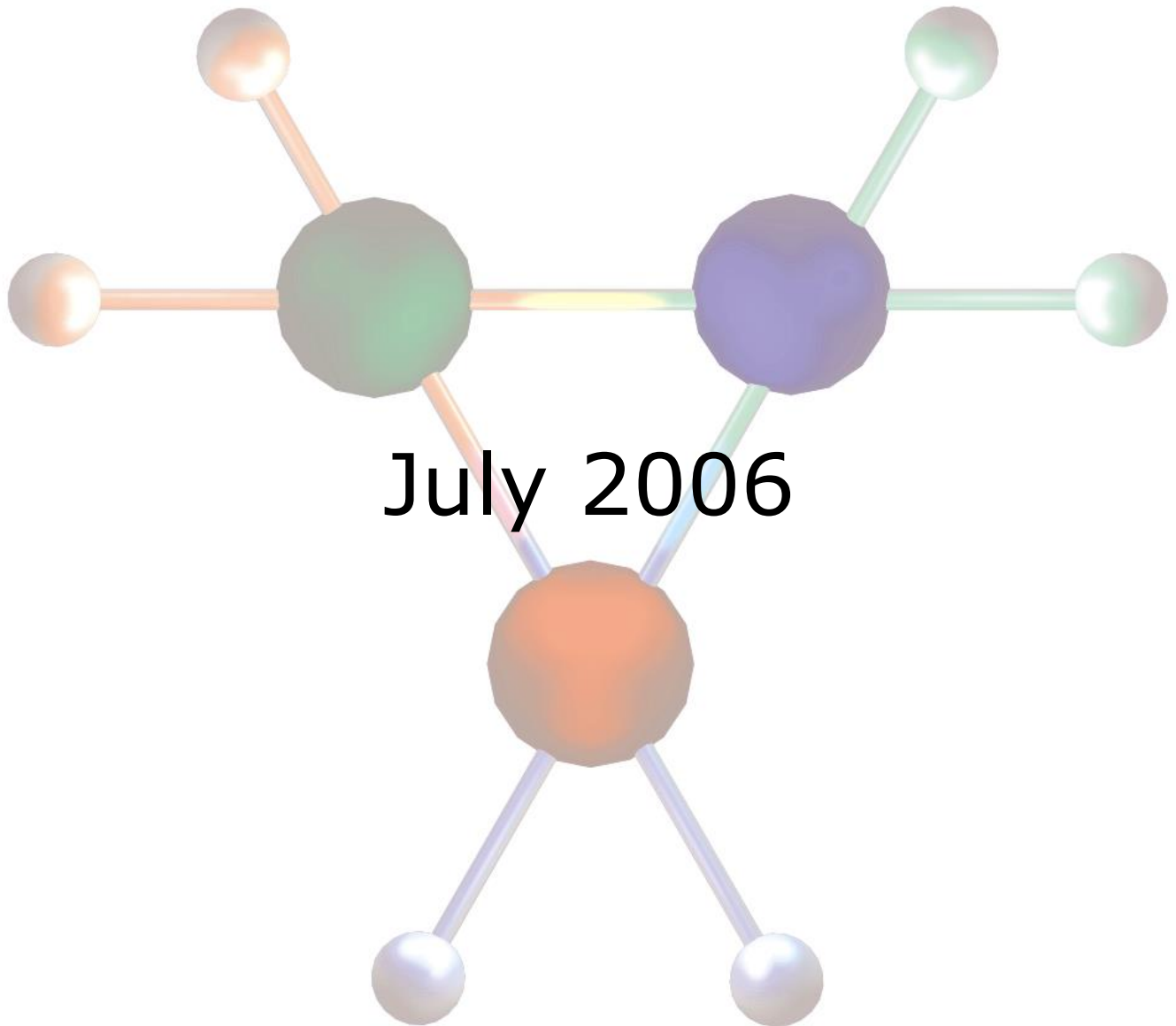
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INC 2006

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July 2006

www.inc2006.org