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# Informatics Research Institute (IRIS) October 2005 newsletter

Rezgui, Y

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# IRIS NEWS

## Congratulations

**Apostolos Antonacopoulos** has been awarded one of the highest awards in the field of Document Analysis and Recognition, the **IAPR/ICDAR Young Investigator Award**. This award is sponsored by the **International Association for Pattern Recognition (IAPR)** and is conferred to researchers under 40 years of age that have made outstanding contributions in the following areas: *Research, Training of students, Research / Industry interaction, Service to the Profession*. The award is conferred every two years at the International Conference on Document Analysis and Recognition (ICDAR). ICDAR 2005 was held in Seoul, South Korea.



In the photograph, Apostolos Antonacopoulos receives the award by the Conference Chairman, Prof. Jin H. Kim.

**Ben Light** has been invited onto the Programme Committee for the Information Resource Management Association (IRMA 2006) Conference. He has also been appointed to the Programme Committee of the 14<sup>th</sup> European Conference on Information Systems (ECIS 2006).

**Sandy Louchart** was invited to the annual presentations by Britain's top younger scientists, engineers and technologists, for the UK national Science week at the House of Commons on the 14 March 2005. He presented his work on Emergent Narrative and Interactive Storytelling that he is conducting at the CVE.

**The following people have been invited to sit on the EPSRC College:** A. Adam, A. Antonacopoulos, D. Caldwell, J. Gray, S. Hill, B. Light, N. Linge, Y. Rezgui and T. Ritchings.

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### IN THIS ISSUE

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## Who's Been Doing What?

Ben Light was invited to visit the IT University of Copenhagen in Denmark to present a research seminar 'Contradictions in the Diffusion and Adoption of ERP Packages', on the 11 October 2005.

## Upcoming Events

The **WINIT International and Interdisciplinary Conference on Gender, Technology and the ICT Workplace** will be held on Tuesday 21st March 2006, at the Clifford Whitworth conference centre. Further details are available on the conference website at: <http://www.winit-salford.com/conference/>. Colleagues are invited to consider submitting papers.

**Informing Sciences & Information Technology Education InSITE Conference** will be held at the University of Salford 25 – 28 June 2006. The purpose of Informing Science is to encourage and enable the sharing of knowledge and collaboration among the wide variety of fields that use information technology to inform clients.

A Call for Papers has been announced at <http://2006.informingscience.org/>

## IRIS SEMINARS PROGRAMME

Dr. Graeme Awcock, Applied Image Processing Research Laboratory, University Brighton  
'A Systems Engineering Approach to Applied Image Processing'

Wednesday, 7 December, at 2:00pm, room 121 Newton.

Prof. Mahdi Mahfouf, Dept. of Automatic Control & Systems Engineering, University of Sheffield  
'Intelligent Systems Based Signal Processing, Modelling & Control'

Wednesday, 8 February, at 2:00pm, room 121 Newton.

## Funding

The University of Salford Research Investment Fund is seeking applications from members of RIs to support a research project of 12 months duration with up to £3,500 funding. Notes for guidance can be obtained from Donna Bailey.

### NEED HELP WITH APPLYING FOR FUNDING

Contact Justin Smith, Reserch Development Coordinator, to assist you with funding applications at [j.smith@salford.ac.uk](mailto:j.smith@salford.ac.uk) / 55069.

## Publications

### Books

Adam, A. 2005. *Gender, Ethics and Information Technology*, Palgrave Macmillan, Basingstoke and New York, March 2005, ISBN 1-4039-1506-7, 196 pages.

### Book Chapters

Adam, A. 2005, 'Knowing Subjects: AI from Feminist Philosophy' in *Mechanical Bodies: Computational Minds*, Franchi, S. & Gulzedere, G. (eds.), MIT Press, pp. 327-344.

Basden, A. 2005, 'Knowledge representation informed by aspects of human practice', in *Search of an Integrative Vision*

*of Technology: Interdisciplinary Studies in Information Systems*, Strijbos, S. & Basden, A. (eds.), Kluwer [Forthcoming].

Basden, A. 2005, 'Towards an Understanding of Human Practice Involving Information Technology', in *Search of an Integrative Vision of Technology: Interdisciplinary Studies in Information Systems*, Strijbos, S. & Basden, A. (eds.), Kluwer.

Griffiths, M., Keogh, C., Karenza, M., Richardson H. & Tattersall, A. 2005, 'Managing Diversity or Valuing Diversity? Gender and the IT Labour Market', in *HRM Management Series*, IDEAS group publishing [Forthcoming].

Rezgui, Y. & Wilson, I. 2005, 'Socio-Organizational Issues in Virtual Organizations', in *Virtual Organizations: Systems and Practice*, Kluwer Science, 0-387-23755-0.

Richardson, H. 2005, 'Consuming Passions in the Global Knowledge Economy', in *Handbook of Critical Research in IS*, Trauth, E., Howcroft, D. & Elgar, E. (eds).

Adam, A., Griffiths, M., Keogh, C., Moore, K., Richardson, H. & Tattersall, A. 2005, 'Gender Research and IS at the ISI, University of Salford', *Gender and IT Encyclopedia*, Trauth, E. (ed). [Forthcoming].

Strijbos, S. & Basden, A. (eds.) 2005, 'In Search of an Integrative Vision of Technology', in *Search of an Integrative Vision of Technology: Interdisciplinary Studies in Information Systems*. Kluwer.

Winfield, M. & Basden, A. 2005, 'Elicitation of Highly Interdisciplinary Knowledge', in *Search of an Integrative Vision of Technology: Interdisciplinary Studies in Information Systems*, Strijbos, S. & Basden, A. (eds.), Kluwer.

## Journal Papers

Chadwick, E. 2005, 'A Slender-Wing Theory in Potential Flow', *Proceedings of the Royal Society*, A461, pp. 415-432.

Cooper, G.S, Cerulli, C., Lawson, B, Peng, C. & Rezgui, Y. 2005, 'Tracking Decision-Making During Architectural Design', *ITcon*, vol. 10, pp. 125-139.

Crabtree, H. C. & Silver, J. A. K. 2005, 'Can Student Retention and Progression be Improved by Active Participation' *Learning Innovative Learning in Action*.

Ferneley, E. & Bell, F. 2005, 'Tinker, Tailor: Information Systems and Strategic Development', *Knowledge-Based SMEs Technovation*.

French, S. & Richardson, H. 2005, 'Opting out? Women and On-line Learning', *ACM Computers and Society*.

Light, B. 2005, 'Going Beyond 'Misfit' as a Reason for ERP Package Customisation', *Computers in Industry*, vol. 56, no. 6, pp. 606-619.

McMaster, T. & Wastell, D.G. 2005, 'The Agency of Hybrids: Overcoming the Symmetrophobic Block' *Scandinavian Journal of Information Systems*, [Forthcoming, summer 2005].

McMaster, T. & Wastell, D.G. 2005, 'Diffusion – or Delusion? Challenging an IS research tradition', *Information Technology and People*, vol. 18, no. 4 [Forthcoming December 2005].

Rezgui, Y. & Meziane, F. 2005, 'A Web Services Implementation of a User Centred Knowledge Management Platform', *International Journal of Intelligent Information Technologies*, Idea Group Publishing, vol. 1, no. 4, pp. 1-19.

Roberts, D., Otto, O. & Wolff, R. 2005, 'Evaluation of Immersive Networked Interaction with Shared Objects', *Computing and Informatics, Special Issue on Collaborative Cooperative Environments*, Article 1471.

Vadera, S. 2005, 'Inducing Safer Oblique Trees without Costs', *Expert Systems: The International Journal of Knowledge Engineering and Neural Networks*.

## Conferences

Adam, A. 2005, 'Chips in Our Children: Can We Delegate Morality to a Machine?' *Computer Ethics Philosophical Enquiry*, Twente, Netherlands, July 2005.

Adam, A., Keogh, C., Moore, K., Richardson, H. & Tattersall, A. 2005, 'You Don't Have to be Male to Work Here but it Helps! Women and the IT Industry', *Women into Computing: The Gender Politics of ICT*, Greenwich, UK, July 2005.

Adam, A., Griffiths, M., Keogh, C. et al. 2005, 'Being an 'it' in IT: Gendered Identities in the IT Workplace', *6<sup>th</sup> International Women into Computing Conference*, July 2005.

Al-khalifah, A., Wolff, R., Alexandrov, V. & Roberts, D.J. 2005, 'Case Study: Interacting with Volumetric Datasets in Networked CAVE Environments', *Visualisation and Data Analysis (SPIE), Electronic Imaging*, 5659 (36), San Jose, California, USA, January 2005.

Barresi, S., Rezgui, Y., Lima, C. & Meziane, F. 2005, 'Architecture to Support Semantic Resources Interoperability', *Proceedings of the ACM Workshop on Interoperability of Heterogeneous Information Systems (IHIS05)*, Bremen, Germany [Forthcoming].

Blackie, N.M. & McLean, R. 2005, 'Serf or Sovereign: eCommerce and the Promise of Consumer Empowerment', *13th European Conference on Information Systems (ECIS)*, Regensburg, Germany, 26-28 May 2005.

Crabtree, H.C. 2005, 'Can Problem Based Learning Add Anything to Teaching of Business Related Subjects?' *A Comparison with Case Method. Problem-based Learning – 2004 A Quality Experience?* University of Salford, UK, 15-17 September 2005.

Doyle, M. 2005, 'Sheep-shank or Bow-line? Articulating the Shape and Purpose of the 'Knot' in Collaborative Activity and Unravelling it Back at the Ranch', *International Society for Cultural and Activity Research (ISCAR)*, Seville, Spain, September 2005.

Ferneley, E.H. & Bell, F. 2005, 'Tinker, Tailor: Information Systems and Strategic Development in Knowledge-Based

SMEs,' *13<sup>th</sup> European Conference on Information Systems (ECIS)*, Regensburg, Germany, May 2005.

Ferneley, E., Sobreperez, P., & Wilson, F.A. 2005, 'Tricks or Trompe L'Oeil? An Examination Workplace Resistance in an Information Rich Managerial Environment', *13<sup>th</sup> European Conference on Information Systems (ECIS)*, University of Regensburg, Germany, May 2005.

Greenhil, A. & Fletcher, G. 2005, 'Exploring 'Events' as an Information Systems Research Methodology', *Critical Management Studies Conference*, Cambridge, UK, July 2005. [CD-Rom].

Griffiths, L., Thornhill, S., & Tsolakis, P. 2005, 'Video for the Masses: A Further Study Into the Effectiveness of Low Quality Streamed Video', *HCII 2005: 11th International Conference on Human-Computer Interaction*, Las Vegas, USA. Lawrence Erlbaum Associates, Inc (LEA).

Griffiths, M., Moore, K. & Richardson, H. 2005, 'Gender on the Agenda: Flexible Working and Work Life Balance in the UK ICT Industry', *6<sup>th</sup> International Women into Computing Conference*, July 2005.

Griffiths, M., Moore, K. & Richardson, H. 2005, 'Moving In, Moving Up, Moving Out? A Survey of Women in IT', *3<sup>rd</sup> European Symposium on Gender and ICT: Working for Change*. Manchester, UK, 2005.

Lima, C., Fiès, B., Ferreira-da-Silva, C. & Barresi, S. 'Setting up the Open Semantic Infrastructure for the Construction Sector in Europe, the FUNSIEC Project', *5th European Conference on Product and Process Modelling in the Building and Construction Industry, ECPPM2004*, Istanbul, Turkey.

Mackay, S.J. & Anderson, C. 2005, 'How Well Prepared Are Radiography Graduates to Deliver the Radiographic Service Upon Qualification?' *UK Radiological Congress*, Manchester, UK, 6-8 June 2005.

Mackay, S.J. & Hogg, P. 2005, 'Evidence Based Practice and the Role of Problem-based Learning', *American Society of Radiologic Technologists*, Albuquerque, New Mexico, USA, July 2005.

McMaster, T., Wastell, D., & Henriksen, H., Z. 2005, 'Fooling Around: The Corporate Jester as an Effective Change Agent for Technological Innovation', *IFIP WG8.6 International Working Conference*, Atlanta, USA, 2005.

Meziane, F. & Kasiran, M.K. 2005, 'Strategising Consumer Logistic Requirements In Ecommerce Transactions: Evaluation Of Current Implementations', *3<sup>rd</sup> European Conference on Intelligent Management Systems in Operations*, Salford, Manchester, UK, June 2005.

Murano, P. 2005, 'Why Anthropomorphic User Interface Feedback can be Effective and Preferred by Users', *ICEIS 7th International Conference on Enterprise Information Systems*, Miami, USA, 24-28 May 2005.

Murano, P. & Mackey, D. 2005, 'Effectiveness of VRML Building Models for Direction Finding', *11th International Conference on Human-Computer Interaction*, Las Vegas, USA, 22-27 July 2005.

Nefti-Meziani, S., Meziane, F. & Kasiran, M.K. 2005, 'A Fuzzy Trust Model for E-Commerce', *7<sup>th</sup> International IEEE Conference on ECommerce Technology*, Munich, Germany, July 2005.

Ng, G. W., Fauzan, N., Ritchings, R.T. & Papoulakis, G. 2005, 'A User Model for Prototyping an Augmented and Virtual Reality System for Computer Accessory Maintenance Assistance', *HCI 2005*, Las Vegas, USA, July 2005.

Ritchings, R.T., Papoulakos, G. & Antonacopoulos, A. 2005, 'An Intelligent Automated Environment for the Contents of Street Signs', *HCI 2005*, Las Vegas, USA, July 2005.

Ritchings R.T. & Berry, C. 2005, 'Comparative Assessment of Pathological Voice Quality Assessment using EGG and Acoustic Data', *4th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications (MAVEBA-05)*, Firenze, Italy, October 2005.

Saraee, M. 2005, 'Mining GPS Logs to Augment Location Models', *6th International Conference on Data Mining, Text Mining and their Business Applications*, Skiathos, Greece, 25-27 May 2005.

Saraee, M. 2005, 'Mining XML Data: A Clustering Approach', *2005 International Conference on Data Mining (DMIN'05)*, Las Vegas, USA, 2005.

Silver, J., Lawrence, K., Barron, V., Klosova, A., Ridsdale Saw, J., Doubkova, P., Rossi, G., Sumpter, D. 2005, 'A Passport to Trade: Raising Awareness of European Business Cultures – A SME -HE Collaboration', *International Entrepreneurship Forum 2005 Conference*, Trento, Italy, 24-25 June 2005.

Whately, J., Bell, F., Shaylor, J., Zaitseva, E. & Zakrzewska, D. 2005, 'CAB - Collaboration Across Borders: Peer Evaluation for Collaborative Learning', *InSITE 2005 Conference*, Flagstaff, USA, June 2005.

Wilson, F.A. 2005, 'Computer-Based Information Systems and Knowledge Management: Contrasting the Objectivist and Subjectivist Perspectives', *9<sup>th</sup> Pacific Asia Conference on Information Systems*, Bangkok, Thailand, 8-11 July 2005.

## Editorships

Ben Light is co-editing the Special Issue of the European Journal of Information Systems: Locating Packaged Software in Information Systems Research. His co-editor is Prof. Steve Sawyer of Pennsylvania State University, USA.

Tom McMaster recently became a member of the Editorial Board of IT & People Journal.

## Projects

The Women in IT (WINIT) team comprising Alison Adam, Helen Richardson, Marie Griffiths and Karenza Moore, have succeeded in securing funding for another ESF project called **Disappearing Women: North West ICT**. The project, running from April 2005 to January 2006, will investigate the push and pull factors that have led to women leaving ICT occupations in the region faster than they are being recruited. <http://www.isi.salford.ac.uk/gris/depict/>

The report, *Developing Female Engineers*, produced by a research team from the School of Computing, Science and Engineering in June 2005, found that organisational culture presents a real barrier to the effective participation of female engineers in industry. Inflexible working practices, a lack of access to informal networks and a long hours culture can all lead to an early exit from the engineering industry for many women.

Haifa Takruri-Rizk has secured ESF funding for a subsequent research project, **Women in North West Engineering (WEWIN)**, which will examine, analyse and evaluate working practices and occupational culture in engineering organisations in the North West. It aims to produce policies and strategies to influence and improve the working practices of companies in the sector. The project will run from 1<sup>st</sup> July 2005 to 31<sup>st</sup> December 2006, and will receive £182,136 in funding.

Lisa Worrall has been appointed as the Research Fellow on this project. Lisa is just finishing her PhD entitled 'Model of Metacognition of Lifelong e-Learning'.

For more information, please contact Rae Bezer, Project Administration Co-ordinator, on [r.l.bezer@salford.ac.uk](mailto:r.l.bezer@salford.ac.uk) or at 54983.

Nigel Linge has been awarded a £100K EPSRC Partnerships for Public Engagement project. This is linked to the Manchester Museum of Science and Industry, BT and SETPOINT. It runs for two years starting in January 2006.

## New Staff & Students

**Apostolos Antonacopoulos** recently joined the Faculty of Science, Engineering & Environment, and is currently a Senior Lecturer in the Computer Sciences Research Centre. He received his PhD from the University of Manchester, Institute of Science and Technology (UMIST), UK in 1995. From 1995 to 2004 he worked as

Lecturer in the Department of Computer Science at the University of Liverpool where he founded the PRImA research lab. He has worked and published on various problems of Document Analysis and Understanding as well as on other applications of Pattern Recognition and Image Analysis. He has recently co-edited the first book on Web Document Analysis. He can be contacted at: [A.Antonacopoulos@primaresearch.org](mailto:A.Antonacopoulos@primaresearch.org). For more information see: [www.primaresearch.org/people/aa](http://www.primaresearch.org/people/aa)

**Tayfour A. Mohammed** has been appointed as a Graduate Teaching Assistant in the ISI. Prior to joining ISI, he was a lecturer at The Sudan University of Science and Technology, and a National Consultant for the Sudan e-Government initiative under the sponsorship of the UNDP.

He received his first degree BSc. (Hons/First) in Economics from Sudan. He then received an MBA from BUK in Nigeria. He received an MSC.(Distinction) in Information Systems from Salford University in 2004. His area of research interests include Knowledge Management, e-Commerce, Business Process Re-engineering and Systems Analysis and Design.

He is located in room 508a, Maxwell building, and can be contacted at: Phone 55812 or by e-mail at: [T.A.Mohammed@pgt.salford.ac.uk](mailto:T.A.Mohammed@pgt.salford.ac.uk)

**Xiao Xiong** has been appointed as a GTA in CNTR. His research area is evaluation of wireless monitoring.

He received a BEng in 2003 from Huazhong University of Science & Technology, China, and was awarded an MRes in 2004 from University College London. He can be contacted at email: [X.Xiong@pgr.salford.a.uk](mailto:X.Xiong@pgr.salford.a.uk)

**Prof. Heinz Klein** will be joining the University in February 2006 for a period totalling 10 months over a two-year period. During this period, Prof. Klein will be engaging with information systems thinkers in the University and throughout the UK and giving six public Leverhulme lectures. The lectures will explore the impact that philosophy has had on Information Systems research and practice and examine how it has affected the way in which we use information technology in the modern world. He will conduct research into the leading critical thinker, Jurgen Habermas, during his time at the University, which will involve an interview with the man himself on his thoughts on Information Systems.

Details of the public Leverhulme lectures will be announced when they are available. Queries should be made to Prof. Andrew Basden.

## POSTGRADUATE RESEARCH STUDENTS

### New Postgraduate Research Students

#### July 2005

Jumaan Alzahrani, PhD, Supervisor: G. Cooper  
Library and information sciences

Alaa Ensheiwat, PhD Splite Site, Supervisor: T. McMaster  
IT project management

Ahmed Ezentani, PhD, Supervisor: A. Al-Yasiri  
Information technology

#### October 2005

Majid Al-Braighen, PhD, Supervisor: A. Adam  
Implementation of customer relationship management

Peter Baloh, PhD, Supervisor: M. Burke  
Knowledge management

Tayfour Mohammed, PhD, Supervisor: F. Wilson  
Knowledge management

Shane Montague, PhD, Supervisor: G. Cooper  
Information security

Rene Javier Moreno-Masey, PhD. Supervisor: D. Cadwell  
Robotics

Chalee Vorakulpipat, PhD, Supervisor: Y. Rezgui  
Knowledge management

Simon Whittle, MSc, Supervisor: L. Griffiths  
Integrating SMS technology into Blackboard VLE

Xiao Xiong, PhD, Supervisor: S. Hill  
Evaluation of wireless monitoring

### Graduated Postgraduate Research Students

BURKE Maria Edith, PhD  
Relationships concerning the design of organisations, structures and information fulfilment  
Supervisor: Prof A Adam

DAVIS Steven, PhD  
Braided pneumatic muscle actuators: Enhanced modelling and performance in integrated, redundant and self healing actuators  
Supervisor: Prof D G Caldwell

FIGUEIREDO Mauro Jorge Guerreiro, PhD  
Efficient collision detection for supporting assembly and maintenance simulation in virtual prototyping environments  
Supervisor: Prof T Fernando

LIU Min, PhD  
Analysis of climatic effects on free space point to point laser communications: link demonstrations  
Supervisor: Dr Steven Hill

MCLEAN Rachel, PhD  
Consumer knowledge, employment and the internet, Critical research into the provision and use of e-commerce  
Supervisor: Dr N Blackie

OMIELAN Adam  
MPhil  
Evaluation of a cost sensitive genetic classifier  
Supervisor: Prof S Vadera

PUDDEPHATT Mark Christopher, PhD  
Reconfigurable networks for maintaining quality delivery of electronic services  
Supervisor: Dr S Hill

RICHARDSON Helen Jane, PhD  
Cultures of consumption: Gender and home e-shopping in the 'Global Knowledge Economy'  
Supervisor: Prof A Adam

SHARMA Manglesh, MSc by Research  
Collaborative design in a distributed environment  
Supervisor: Prof T Fernando

SMITH Martin Anthony, MSc by Research  
Effective occlusion culling for scenes with moderate complexity  
Supervisor: Prof T Fernando

SOLTANI Amir Reza, PhD  
A multi-objective intelligent transportation system in construction sites  
Supervisor: Prof T Fernando

SPASIC Irena, PhD  
A machine learning approach to term classification  
Supervisor: Dr Sophia Ananiadou

FISHWICK Nina, PhD  
Manoeuvring characteristics of slender bodies through fluid  
Supervisor: Dr E Chadwick

KESAR Shalini, PhD  
Interpreting computer fraud committed by employees  
Supervisor: Prof A Adam

MAHMOOD Kamil Hamed, PhD  
Animated software agents support in e-learning environments : an exploratory interpretative case study  
Supervisor: Dr E. Ferneley

McAVOY Brendan, PhD  
Optimal path planning for redundant manipulators  
Supervisor: Dr B. A. Sangolola

**Research Newsletter Submissions:**  
Submissions to the Newsletter must be sent to Joanne Perrott at E-mail: [j.e.perrott@salford.ac.uk](mailto:j.e.perrott@salford.ac.uk)