



TITR NEWS & EVENTS

From February to March 2006

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Staff Changes

Mr Farzad Salim joined CIS (SMICL) as Associate Research Fellow for 12 months commencing 15 March 2006.

Dr. Michael Morgan, a UOW PhD graduate (RILE) has taken up a position as Lecturer at Monash University.

Associate Professor Golshah Naghdy joined VSIPG.

Stephen Davies and Lee Rong have been appointed as post-doctoral research fellows within CASPMD.

Visitors

Mr Sid Stamm from Indiana University is visiting CIS from 13 Feb – 28 June as an exchange student. He will study applications of cryptography in authentication and privacy.

Prof. Zhoncheng Li (Director of the Network & Ubiquitous Computing Research Department and Assoc.) and Assoc. Prof. Jinglin Shi (Director of the Next Generation Internet R&D Centre) from Institute of Computing Technology, Chinese Academy of Sciences visited WTL and TITR as part of the on-going research collaborations. Discussion of continued research collaborations between the Institute of Computing Technology at CAS and the Wireless Technologies Laboratory at UoW were held. The visit was funded under the UoW International Links Grant Scheme "Expanding Research Collaboration Linkage between the Chinese Academy of Sciences and the University of Wollongong" Prof. Li and Assoc. Prof. Shi have visiting appointments at UoW.

Prof. Linda Labbo of the University of Georgia visited DMC in March 2006 and ran a session for our local teachers (over 100 in attendance) on digital literacies

Prof. Jacob Gavan, IEEE Fellow and Distinguished Speaker from Honlun University, Haifa, Israel visited WRG from 25/03 – 4/4/2006 to deliver a series of seminars. The visit was co-sponsored by ACoRN

Prof. C. C. Jay. Kuo IEEE Distinguished Lecturer from the University of Southern California visited CVIPCM and will present a seminar in early April 2006.

Dr. Lei Zhuang is a Visiting Fellow with the PESP group from 10/1/2006 for 6 months.

Prof. Minkyu Song from Dongguk University, Seoul, Korea is a visitor of WRG from January to December 2006.

Prof. Tom Russell of Queens University, Kingston, Ontario visited from Feb – Mar 2006 and gave publication advice for staff.

Industry Training

Dr Tony Eyers presented the following training courses:

Wireless LAN Fundamentals, March 28-29 2006 delivered to the Australian Federal Police.

Telecommunications Technology Overview, April 3rd-4th, delivered to the ACCC (Australian Competition and Consumer Commission)



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Grant Successes

Jan Herrington, Gwyn Brickell and Barry Harper (DMC) have been awarded a University New Partnership grant with the Powerhouse Museum and the National Museum of Australia titled "The role of web-based learning environments in facilitating and enhancing museum visits for school students". The grant is valued at \$10,000 for a 1 year period.

Prof. R. Safavi-Naini, A/Prof. W. Susilo, A/Prof. Y. Mu, Dr. J. Horton, Dr. J. Baek and Dr. W. Li (CIS) have been awarded a University New Partnership Grant with Microsoft valued at USD\$15,000 for a duration of 1 year. The University has provided a top up grant to enhance its success.

Publications

Only Books and Journal publications are listed.

Lefoe, G., & Hedberg, J. (2006). "Blending on and off campus: A tale of two cities" in C. Bonk & C. Graham (Eds.), Handbook of Blended Learning Environments: Global Perspectives, Local Designs (pp. 325-337). San Francisco: Pfeiffer

Burnett, I., S, Pereira, F, Van de Walle, R, Koenen, R, (editors) "The MPEG-21 Book", published by John Wiley and Sons Ltd., Chichester, March 2006.

Yingsong Hu, Jiangtao Xi, Enbang Li, Joe Chicharo and Zongkai Yang, "Three-dimensional profilometry based on shift estimation of projected fringe patterns," Applied Optics, Vol. 45, No.4, Feb. 2006, pp678-687

Enbang Li, Jiangtao Xi and Joe F. Chicharo, "Prediction of multi-dimensional photonic crystal structures generated by multi-beam interference in holographic lithography," Smart Materials and Structures, Vol. 15, No.1, Feb. 2006, S158-S164

Smith, D, Lukasiak, J, Burnett I S, "An Analysis of the Limitations of Blind Signal separation Application with Speech", in Signal Processing (EURASIP), Vol. 86, Iss. 2, Feb. 2006, pp. 353-359.

Seminars

Title: Optimal Number and Placement of Access Points in Wireless LAN Systems

Speaker: Shahnaz Koohbor, School of Information Technology and Mathematical Sciences, University of Ballarat

Date & Time: 12.30pm on Wednesday, 15 February 2006

Title: Quantum Fingerprinting ... and Quantum Authentication?

Speaker: Professor Barry Sanders, Institute for Quantum Information Science, University of Calgary

Date & Time: 2:00pm on Friday, 17 February 2006

Title: An Efficient Algorithm for Image Segmentation

Speaker: Prof Liju Dong, Shenyang University, China

Date & Time: 12.30pm on Wednesday, 15 March 2006

Title: Overview of R&D Activities at the Institute of Computing Technology, Chinese Academy of Sciences

Speaker: Prof. Zhongcheng Li, Director of the Network & Ubiquitous Computing Research Department

Date & Time: 11.30am on Friday, 17 March 2006

Title: Future Broadband Wireless Network Architecture & MAC Layer Research at the Institute of Computing Technology, CAS

Speaker: A/Prof. Jinglin Shi, Director of the Next Generation Internet R&D Centre

Date & Time: 11.30am on Friday, 17 March 2006

Title: Stratospheric Quasi-Stationary Platforms: (Sq-Se) Can They Replace Satellite Communication Systems?

Speaker: Prof Jacob Gavan



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Speakers University/Company: Holon Institute of Technology, Israel

Date: 12:30pm on Tuesday, 28 March 2006

Research News by Centre

WTL - The first International Conference on Wireless Broadband and Ultra-wideband Communications (AusWireless'06) was held from 13 to 16 March 2006 at Crowne Plaza Hotel, Darling Harbour, Sydney. TITR was one of the sponsors. Prof. Eryk Dutkiewicz and A/Prof. Xiaojing Huang presented four papers at this conference.

Prof. Eryk Dutkiewicz, Assoc. Prof. Xiaojing Huang and Prof. Joe Chicharo received visiting professorial appointments at the Shanghai Jiao Tong University in late 2005.

Prof. Eryk Dutkiewicz attended the IEEE standards meeting in Denver, CO in March.

WRG - Assoc. Prof. Tadeusz Wysocki has been invited to deliver seminar: "Diversity – A Key to High Performance Wireless Communications" at the Eindhoven University of Technology and the Delft University of Technology, the Netherlands, 21/03/2006.

CASPMD have submitted 3 Discovery Project applications, one in collaboration with the University of Sydney. In addition staff have made a number of visits to the University of Sydney.

CASPMD filed the following provisional patent: AU Provisional: "Method and Apparatus for encoding spatial audio information", Burnett, Ritz and Cheng, Filed 22 February 2006.

CIS – As reported above Prof. R. Safavi-Naini, A/Prof. W. Susilo, A/Prof. Y. Mu, Dr. J. Horton, Dr. J. Baek and Dr. W. Li (CIS) have been awarded a University New Partnership Grant with Microsoft. The news of this success was widely reported in the press:

February 22 2006 – UoW Media Release <http://media.uow.edu.au/releases/2006/0222a.html>

February 23 2006 - UoW News <http://media.uow.edu.au/news/2006/0223c/index.html>

March edition of Campus News – the University of Wollongong quarterly news publication

<http://media.uow.edu.au/campus-news/pdf/CN-Mar-06.pdf>

March 1 2006 – The Advertiser <http://www.rehame.com/printclips/2006-03-01/NSWWOLADV/P9481924.pdf>

March 2006 - Campus Review

March 21 2006 - The Age

March 21 2006 - The Sydney Morning Herald

March 22 2006 – The grant received media coverage on ABC Illawarra radio with Prof. R. Safavi-Naini beeline interviewed.

March 28 2006 - IQ - education lift out published in the Illawarra Mercury

Rei Safavi-Naini, Willy Susilo and Ling Lu attended and presented papers at the ACM ASIACCS (ACM Symposium on Information, Computer and Communications Security) 2006 in Taiwan. Rei delivered a paper co-authored by Ling Lu, Joonsang Baek and Willy Susilo and chaired a session.

Following her visit to Taiwan Prof. Rei Safavi-Naini attended the Microsoft Theme Workshop, a two day invitation only workshop organised by Microsoft Research Asia (MSR Asia) and was held in Beijing, China. MSR Asia is one of the 5 worldwide Microsoft Research Labs. The Workshop had three themes, Trustworthy Computing, Games and Graphics, and Windows Curriculum. Professor Safavi-Naini gave a talk and was a panel member for two panels, one on Trustworthy Computing and the other on 'The Top-three Hottest Research Topics in Computer Science in the Next Five Year' and related issues. An interesting aspect of the Workshop was MS emphasis on using Games as part of CS curriculum and the support that was provided for academic (teaching resources) for that. Professor Safavi-Naini also visited MS Research Lab, gave a talk and had discussions with a number of researchers in the Lab.

A/Prof. Yi Mu attended and presented a paper in Financial Cryptography 2006, one of the important conferences in our field.



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VSIP - Steve Tivive completed his Ph.D. on New Class of Convolutional Neural Networks based on Shunting Inhibition with Applications to Visual Pattern Recognition.

A paper entitled "A gender recognition system using shunting inhibitory convolutional neural networks" has been accepted at the 2006 International Joint Conference on Neural Networks, 16-21 July 2006, Vancouver, Canada.

Professor Bouzerdoum invited and accepted to serve on the program committees of the following conferences:

- (i) SPIE Conference on Smart Structures, Devices, and Systems III, 10–13 December 2006, Adelaide, South Australia.
- (ii) The 13th International Conference on Neural Information Processing (ICONIP-2006) 3–6 October 2006, Hong Kong.
- (iii) International Conference on Signal Processing and Multimedia Applications (SIGMAP-2006), 7 – 10 August 2006, Setubal, Portugal.

Professor Bouzerdoum joined the editorial board of International Journal of Computational Intelligence and Applications (IJCIA).