

ACI Newsletter, Number 30, June 2004

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NCACI COMMITTEE MEMBER PROFILE

Dr **Ljubo Vlacic**, the Chair of NCACI, is a Professor and Director of the Intelligent Control Systems Laboratory, Institute for Integrated and Intelligent Systems, Faculty of Engineering and Information Technology, Griffith University, Brisbane.



His career includes a number of positions with both industry and academia. This experience includes the design, development, field-testing, and deployment of a variety of sophisticated electronic devices for industrial control applications as well as senior management positions. At Griffith University, he has been the Intelligent Control Systems Laboratory Director since 1991 and was Head of School and the Industrial Affiliates Program Director from July 1999 to July 2001.

He co-authored two research monographs, co-edited several books and conference proceedings, and co-authored over 100 journal articles, conference papers, and book-chapters. Also, he was invited to participate in over 20 research seminars at academia and industry worldwide.

His research interests and contributions to research span the areas of control systems, decision theory, intelligent control, and computer and systems engineering; including the application of these methodologies to computer-based industrial automation, mechatronics, intelligent robotics, computer systems integration, systems engineering, intelligent vehicles, and transport systems.

In recognition of his work he was named the 2003 Queensland Professional Engineer of the Year and received the Invitation Fellowship for Research in Japan (2004), DAAD Fellowship – Germany (1998), Fulbright Fellowship – USA (1989). With his research group, Professor Vlacic received the 2000 Engineering Project Excellence Award.

He serves/has served on the editorial boards (Associate Editor) of numerous scholarly journals, including the IEEE Transactions on Intelligent Transportation Systems, the Journal of Robotics and Mechatronics (1998-2001); Journal on Micromechatronics; the International Journal of Korean Society of Precision Engineering; Information &

Management (1994–1999), The Asian Journal of Control (1999–2001) and the Conference Editorial Board (CEB) of the IEEE—Control Systems Society.

He is also Chairman of the International Federation of Automatic Control's Technical Committee on Control Education, Chairman of the Harold Chestnut Control Engineering Textbook Prize Committee, and Co-Chairman of the Education Committee of the IEEE's Control Systems Society.

He is a fellow of the Institution of Engineers, Australia (FIEAust), a fellow of the Institution of Electrical Engineers UK (FIEE), a senior member of the Institute of Electrical and Electronic Engineers (SMIEEE), U.S.A., a Chartered Professional Engineer of Australia (CPEng), a Registered Professional Engineer of Queensland (R.P.E.Q.) and a Chartered Professional Engineer of UK (PE(UK)).

He also graduated from the Conservatorium of Music and played violin with Sarajevo Philharmonic Orchestra; Athens Symphony Orchestra; and Lafayette Symphony Orchestra.

Ljubo can be contacted on 07 3875 5024 or l.vlacic@griffith.edu.au

THE 2003 ACI UNDERGRADUATE THESIS PRIZE WINNERS

The 2003 ACI Undergraduate Thesis Prize will be jointly awarded to Mr Wheatley from ? University on Dust Monitor project and Mr Seysener from ? University on Object Recognition. The prize will be awarded during The 5th Asian Control Conference to be held in Melbourne, 20-23 July, 2004.

Certificate of Recommendation will also be awarded to Mr Anderson from ? University for his thesis project on Linear Predictive Control.

More details will be presented in the next edition of the newsletter.

The Engineers Australia Undergraduate Thesis Prize in Automation, Control and Instrumentation was inaugurated in 1995 to recognise individual excellence achieved in undergraduate project work across the breadth of A, C & I. The quality of work presented has been such that the prize has been awarded each year since then: in addition a total of 29 Certificates of Commendation have been awarded for prize-worthy work of other applicants.

The monetary value of the prize is \$2,000. This is in addition to the award of a medal and certificate.

CALL FOR THE 2004 ACI UNDERGRADUATE THESIS PRIZE SUBMISSIONS

Entries for the 2004 Undergraduate Thesis Prize will close on 15th December, 2004. Further information may be obtained from Ms Martine Griffiths, the NCACI Committee Administrator, ph. 02 6270 6530; email: mgriffiths@engineersaustralia.org.au

UPCOMING EVENT

The 5th Asian Control Conference



20-23 July 2004

The Grand Hyatt, Melbourne, Australia

www.ascc2004.com

ASCC2004 will be the premier control engineering event of the year and will provide participants with the opportunity to experience the latest in cutting edge research and industry developments.

The conference will also provide a range of excellent industry networking opportunities for delegates.

Tuesday 20th July ASCC Workshops Include:

- Modern Anti Windup Synthesis
- Model Predictive Control
- State of the Art Computational Methods

Wednesday 21st July - Friday 23rd July ASCC Conference Program

Plenary Keynote Papers Including:

- Some Challenges in Computational Biology, Dr M. Vidyasagar, Tata Consultancy Services, India
- Process Control: Potential Benefits and Wasted Opportunities, Professor Mike Brisk, Emeritus, Monash University, Australia
- A New Approach to Signal Processing via Sampled-Data Control Theory, Professor Yutaka Yamamoto, Kyoto University, Japan
- HIV Treatment Scheduling via Robust Nonlinear Model Predictive Control, Professor Andrew Teel, University of California, USA
- Quantum Control and Quantum Error Correction, Professor Gerard Milburn, University of Queensland, Australia
- Ion Channels - Estimation and Control at Macroscopic and Nano Scales, Professor Vikram Krishnamurthy, University of British Columbia, Canada

In addition the conference program will include 300 oral and poster presentations including areas of interest such as:

- Non Linear Theory
- Systems Identification
- Hard Disk Drives
- Adaptive Systems
- Robotics
- Applications
- Aerospace Applications
- H-Infinity Design
- Neural Networks
- Guidance Control

And many more...

For more information including registration and fees please visit the conference website at www.ascc2004.com or email the conference organiser Larissa Brindle at l.brindle@ee.mu.oz.au or call (03) 8344 0378.

The Editors:

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