



Hamilton Institute

The Hamilton Institute Lunchtime Seminars

- January 12th, 2005** ***A Computational Theory of Contour Completion in Visual Cortex***
Professor Lance Williams, Department of Computer Science, University of New Mexico.
- January 18th, 2005** ***Dynamic Resource Management for Wireless Networks Using Hybrid Systems***
Dr. Mehmet Akar.
- January 21st, 2005** ***A Differential Dynamic Games Approach to Flow Control***
Professor Richard Vinter, Electrical and Electronic Engineering Department, Imperial College.
- January 28th, 2005** ***Stochastic Spatio-Temporal Grammars for Images and Video***
Jeffrey Mark Siskind, School of Electrical and Computer Engineering, Purdue University.
- February 4th, 2005** ***Non-negative Sparse Coding of Polyphonic Music Spectra***
Dr. Samer A. Abdallah, Department of Electronic Engineering, Queen Mary University of London.
- February 18th, 2005** ***Synaptic Plasticity in Normal & Diseased Brain: The Development of Novel Neurotherapeutics***
Dr. Keith J. Murphy, Conway Institute, UCD.
- February 23rd, 2005** ***Some Theoretical Aspects of Cell Signaling: Receptor-ligand Interactions and Signal Amplification Cascades***
Dr. Madalena Chaves, Rutgers University.
- March 4th, 2005** ***Packet Filtering and Randomization in the OpenBSD Network Layer***
Ryan McBride, OpenBSD developer, MINDS, NUIM.

Venue: The Seminar Room, Hamilton Institute, Science Building, NUI Maynooth, Co. Kildare, Ireland.

Time: 1pm - 2pm

Further Info.: Prof. P. Wellstead, Email: peter.wellstead@may.ie, Tel: 01-7086274
Prof. B. Pearlmutter, Email: barak@cs.may.ie, Tel. 01-7086063



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- March 8th, 2005** ***CTVR Research Sampler - Towards an All-Optical Core Internet***
Prof. Donal O'Mahony, Department of Computer Science, TCD.
- March 11th, 2005**
(2 – 3pm) ***Biochemical Analysis of Supramolecular Muscle Protein Complexes***
Professor Kay Ohlendieck, Head of Biology Department, NUI Maynooth.
- April 11th, 2005** ***A Simple and Efficient Natural Sort***
Prof. Olin Shivers, College of Computing, Georgia Institute of Technology.
- April 19th, 2005** ***Some Results and Problems about Mathematics of Queueing Networks***
Prof. Yuri Suhov, Statistical Laboratory, Cambridge/IITP Moscow.
- April 28th, 2005** ***Exploring Reconfigurability in Wireless Networks***
Dr Linda Doyle, Department of Electronic & Electrical Engineering, Trinity College.
- May 12th, 2005** ***Batch Control on a Stripping Column, Vegetable Oil Setting, Automation – S88 – Batch Control Standard, Control – A batch control problem in the distillation tower***
Dr. Allan Kjaer, Senior Project Manager, COWI, Denmark.
- May 19th, 2005** ***Multiple Alignments, Microarrays and Multivariate Analysis***
Prof. Des Higgins, Conway Institute, UCD.
- June 17th, 2005** ***Validation of Biochemical Network Models using Robust Control Theory***
Dr. Declan Bates, Department of Engineering, University of Leicester, U.K.

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June 24th, 2005
(1.00pm – 2.00pm)

Call Admission Policies for DS-CDMA Cellular Networks Based on Power Control Setpoints

Prof. Derong Liu, IEEE Fellow, Department of Electrical and Computer Engineering, University of Illinois at Chicago, USA.

June 24th, 2005
(2.30pm)

Distributed Coordination and Consensus in Mobile Agents: From Bird Flocking and Fish Schooling to Synchronization of Coupled Oscillators

Professor Ali Jadbabaie, Department of Electrical and Systems Engineering, University of Pennsylvania.

July 27th, 2005

QFT Non-diagonal Controllers for Uncertain MIMO Systems

Dr. Marta Barreras Carracedo, Automatic Control and Computer Science Department Public University of Navarra, Pamplona, Spain.

July 29th, 2005

Improving our Evaluation of Transport Protocols

Dr Sally Floyd, ICSI Center for Internet Research (ICIR), Berkeley, CA, USA.

August 11th, 2005
(2.00pm – 3.00pm)

How Hard are Random Problems? Phase Transitions in Satisfiability and Graph Coloring

Prof. Cristopher Moore, University of New Mexico.

August 25th, 2005

Evolutionary Design Principles of Bacterial Chemotaxis

Dr. Jens Timmer, FDM and Department of Mathematics and Physics, University of Freiburg, Germany.

August 26th, 2005

TBA

Dr. Mark Girolami, Bioinformatics Research Centre, Department of Computing Science, University of Glasgow.

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Time:

1pm - 2pm

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