

DAMIAN GIAOURIS

Diploma(A&C Eng, 2000) MSc(A&C Eng, 2001), PhD(Control Eng, 2004), BSc (Mathematics, 2009)

Lecturer in Control Systems (Newcastle University - 2004)

Current Address:

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Newcastle upon Tyne, U.K.

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Date of Birth: 2/6/1976

EDUCATION AFTER PhD

Feb 10 – To date

MSc in Mathematics, Open University.

Feb 07 – Dec 09

BSc in Mathematics, Open University, **First-class Honours**

EDUCATION BEFORE PhD

Sept 01 – Nov 04

PhD at the University of Newcastle upon Tyne, School of Electrical, Electronic & Computing Engineering:, partly sponsored.

Sept 00-Sept 01

MSc in Automation and Control, Newcastle University, **Distinction - 86%**

1995- 2000

Diploma at the Department of Automation and Control, at the Technological Educational Institute of Thessaloniki (TEI), **69%**.

PROFESSIONAL EXPERIENCE

From Sept 04 – To date

Lecturer in Control Systems at Newcastle University, School of Electrical, Electronic and Computing Engineering

Modules taught include: “Dynamic Systems and Control”, “Design of Linear Control Systems”, “Advanced Control Systems”, “Industrial Automation, Robotics and Artificial Intelligence”, “Subsea control and communications systems”.

Roles: Director of PGT courses, Degree Program Director of MSc in Automation & Control, Responsible for MSc Recruitment, Responsible for redesign of MSc project, Responsible for redesign of all modules in the area of “control systems”, CPD courses on Matlab and subsea control systems.

Member of a Special Interest Group (SIG) on “teaching control systems in UK universities”.

BEng, MSc and PhD Supervisor.

Accelerated increments/promotions: 2008, 2010

From Sept 03 to Sept 04

Temporarily Lecturer at Newcastle University, School of Electrical, Electronic and Computing Engineering

Modules taught: Industrial Automation.

BEng & MSc Assistant Supervisor

From Sept 02 to Sept 04

Matlab tutorials

I wrote notes and delivered a small intensive course on Matlab/Simulink.

From Feb 02 to June 04

During my PhD studies I have worked as an **invigilator** and **demonstrator**.

From 1/3/98 until 30/6/00 **laboratory assistant** at the TEI - Department of Automation and Control.

11/10/1999 – 11/04/2000

Compulsory **industrial work** at the TECHNECO Company in the area of computers, networks, industrial automation.

From June 99 until September 99 I worked with Dr. Diamadoydi (Lecturer at the University of Thessaloniki (AIIΘ)) doing the drawings, using AutoCAD, for his book “Metal Welding”.

PhD/Mphil EXAMINER

Ross MacLaine – Supervisor: Prof Paul Acarnley

Salinda Buyamin – Supervisor: Prof John Finch

Ning Han Mphil – Supervisor: Dr Robert Bicker

PHD STUDENTS

Successful submissions

Dr Shady Gadoue, Dr Georges El-Murr, Dr Abdulmajed Elbkosh, Dr Ibrahim Daho, Dr Qi Shang, Dr Hussein Kazem, Dr Sean Donaghue

Active PhD students

Mohamoud Alamyral, Salah Ethni, Dan Dan Ma, Graeme Hutchison, David Hodgson, Nelson Okafor, Afshin Pashael, Maher Mohammed F S Algreer, Muez Shiref, Otman Imrayed, Kamyar Mehran, Idris Musa, Afshin Pashaei, Syranidis Ioannis

PUBLICATIONS

Book Chapters: 1

Journal publications: 14 (1 invited at IEEE, Industrial Electronics)

Total citations: 53 (From "ISI web of knowledge" data taken on 02/12/2010)

Peered reviewed conference publications: 41

GRANTS

1. High Efficiency Electrical Energy Conversion
Project Leader: Prof. Barrie Mecrow, 2006-2009, EPSRC (EP/F067895/1): **£762,626.**
 2. Test Facility for High Speed, High Power, Drives
Project Leader: Prof. Barrie Mecrow, 2006-2009, EPSRC (EP/D022142/1): **£ 200,003**
 3. DTA - Analysis of digital VLSI circuits using dynamical systems, 2009, Project Leader: Professor Alex Yakovlev, **Fees and Living Expenses.**
 4. Royal Society International Outgoing Short Visit 2007/R3, **£1,070**
 5. Royal Society Conference grant 2006/R4, **£1,990**
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PERSONALLY INVITED/ ORGANISED SEMINARS

1. **TU München**, Electrical Engineering Department, “Applications of Fuzzy Logic in Electric Drives”, Feb 2011
 2. **TU München**, Electrical Engineering Department, “Applications of Wavelet Transform in Electric Drives”, Feb 2011
 3. **Aberdeen University**, IUTAM Symposium on Nonlinear Dynamics in Advanced Technologies and Engineering Design, July 2010
 4. **TU München**, Electrical Engineering Department, “Applications of Fuzzy Logic in Electric Drives”, Feb 2010
 5. **TU München**, Electrical Engineering Department, “Applications of Wavelet Transform in Electric Drives”, Feb 2010
 6. **Aberdeen University**, “Stability analysis and control of piecewise smooth dynamical systems”, Nov 2009
 7. **TU München**, Electrical Engineering Department, “Stability analysis and nonlinear control of power converters”, August 2009
 8. **TU München**, Electrical Engineering Department, “Estimation and control strategies for AC machines”, August 2009
 9. **Imperial University**, co-organiser with professor Banerjee of the minisymposium: "Current mathematical challenges in the theory of border collision bifurcations", at Workshop on Resonance Oscillations and Stability of Nonsmooth Systems, June 2009.
 10. **Imperial University**, "Stability analysis of nonsmooth limit cycles", at Workshop on Resonance Oscillations and Stability of Nonsmooth Systems, June 2009.
 11. **Leeds University**, Mathematics Department: "Bifurcation Control of Piecewise Smooth Systems (Filippov Type)", "Leeds Applied Nonlinear Dynamics (LAND)", Feb 2009.
 12. **Bristol University**, Engineering Mathematics Department: "Control of smooth/nonsmooth bifurcations using the saltation matrix", "Making it Real", Dec 2008.
 13. **Newcastle University**: Introduction to Matlab (CPD), Aug 2008, Jan 2009, June 2009
 14. **Wuppertal University**, Germany: Nonlinear Behaviour of Power Electronics, July 2008.
 15. IEEE Kharagpur Section, **IIT Kharagpur**, India: Wavelet analysis and denoising, special applications to electric drives, Jan 2008.
 16. IEEE Kharagpur Section, **IIT Kharagpur**, India: Evolving Control Strategies of DC-DC Converters Using Monodromy Matrices, Dec 2006
 17. **Wuppertal University**, Germany: Wavelets & Electric Drives an Introduction, May 2006.
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CONFERENCES/COMMITTEES

Technical Committees

IEEE Circuits and Systems - Power and Energy Circuits and Systems Technical Committee,

Under submission IEEE Circuits and Systems - Nonlinear Circuits and Systems Technical Committee

Invited

IEEE ICIT 2006, ENOC 2008, ENOC 2011, WCE 2007, WCE 2008

Session Chair

ICIT2008, WCE 2007, Chaos09, PEMD2010

Organising Committee

WCE 2007 - 2010

MISCELLANEOUS

Member of Accreditation Panel

Accreditation of FdSc Mechanical Manufacturing Engineering, FdSc Electrical Electronics Engineering, FdSc Multi Skill Engineering, Newcastle College, April 2010.

Referee for various conferences & journals, including:

1. IET
2. IEEE
3. Elsevier
4. Mathematical Problems in Engineering
5. Journal of Engineering Mathematics
6. Simulation Modelling Practice and Theory

Chairman of the School postgraduate student staff committee, Sept. 02 – Sept. 03

Member of the Faculty postgraduate student committee, Sept. 02 – Sept. 03.

REFERENCES

1. Professor O. R. Hinton, Newcastle University,
Email: oliver.hinton@ncl.ac.uk
2. Emeritus Professor J. W. Finch, Newcastle University,
Email: j.w.finch@ncl.ac.uk
3. Professor B. Mecrow, Newcastle University,
Email: barrie.mecrow@ncl.ac.uk
4. Professor N. Constadinidis, TEI,
Email: nikkon@ourania.autom.teithe.gr
5. Professor P. Tzionas, TEI,
Email: ptzionas@teithe.gr