

Computational Intelligence UKRI Chapter

Report May 2011, D. Coyle

Committee

Chair: Dr Damien Coyle, University of Ulster

Vice-chair: Dr Ke Chen, University of Manchester

Past-chair: Prof Leslie Smith, University of Stirling

Secretary: TBD

Treasurer: Dr Damien Coyle

England Representative: Dr. Simon Coupland, DeMonfort University

Northern Ireland Representative: Dr. Ammar Belatreche, University of Ulster

Rep. of Ireland Representative: Dr. Sean McCloone (acting), NUI Maynooth

Scotland Representative: Prof. Leslie Smith (acting), University of Stirling

Wales Representative: TBD

Industrial Liaison: Dr. David Elizondo, De Monfort University.

GOLD Representative: Mr Snaider Carrillo, University of Ulster

Women in CI Research Representative: Dr. Keeley Crocket, Manchester Metropolitan University

Webmaster: Dr. Damien Coyle, University of Ulster

Website : <http://ewh.ieee.org/r8/ukri/cis/>

Activities

The chapter has been active in co-sponsoring a number of events and holding meetings in the past few months.

Chapter meetings/events in Oct 2010 – May 2011.

1. **Workshop** : IEEE Computational Intelligent Society UKRI GOLD Careers Workshop, De Montfort University co-organised by De Montfort University and University of Ulster
2. **Seminar on** "The application of EEG techniques to the study and management of major depressive disorder ", Intelligent Systems Research Centre, University of Ulster, 1.00pm 7th April, 2011 by Dr. David Watson, Intelligent Systems Research Centre, University of Ulster.
3. **Seminar on** "Various difficulties in English-Japanese machine translation", Intelligent Systems Research Centre, University of Ulster, 1.00pm 31st March, 2011 by Professor Katsuyuki Shibata, Fukuoka University, Japan.
4. **Seminar on** "Seeking Emergent Behaviour in Robotics", Intelligent Systems Research Centre, University of Ulster, 1.00pm 24th March, 2011 by Dr. Lorenzo Riano, University of Ulster, Derry, UK.
5. **Seminar on** "Recent advances in image steganalysis", Intelligent Systems Research Centre, University of Ulster, 1.00pm 10th March, 2011 by Dr. Fatih Kurugollu, Queen's University Belfast, Belfast, UK.
6. **Seminar on** "Encryption by Chaos", Intelligent Systems Research Centre, University of Ulster, 12.00pm 16th February, 2011 by Prof. Jonathan Blackledge, Dublin Institute of Technology (DIT), Ireland.

7. **Seminar on "Feedforward Neural Networks Training: A New Constrained Learning Algorithm"**, Intelligent Systems Research Centre, University of Ulster, 12.00pm 9th February, 2011 by Prof. De-Shuang Huang, Chinese Academy of Sciences, China.
8. **Seminar on "Self-paced brain-computer interfaces: progress and issues"**, Intelligent Systems Research Centre, University of Ulster, 2.00pm 21st January, 2011 by Dr Francisco Sepulveda, University of Essex, UK.
9. **Seminar on "Cepstrum of Bispectrum – A New Approach to Bio-signal Processing"**, Intelligent Systems Research Centre, University of Ulster, 1.00pm 17th November, 2010 by Dr Shahjahan Shahid, University of Ulster, UK.
10. **Seminar on "Robot Navigation using Omnidirectional Vision"**, Intelligent Systems Research Centre, University of Ulster, 1.00pm 3rd November, 2010 by Dr. Chris Burbridge, University of Ulster, UK.
11. **Seminar on "Exploring the Network-on-Chip Paradigm for Large Scale Spiking Neural Network Hardware Implementations"**, Intelligent Systems Research Centre, University of Ulster, 1.00pm 20th October, 2010 by Mr. Snaider Carrillo, University of Ulster, UK.

Technical Co-sponsorship (2010/2011):

The chapter is providing (has provided) technical co-sponsorship to a number of UKRI based events in 2010/2011. These include

[AIACS2011](#), **The 2011 Artificial Intelligence and Cognitive Science Conference**, University of Ulster, Magee Campus, 5-7 September, 2011.

[ACIB11](#), **1st Annual Conference on Integral Biomathics**, Stirling University, Scotland, 29-31 August 2011.

[CEEC2011](#), **3rd Computer Science and Electronic Engineering Conference**, School of Computer Science and Engineering, University of Essex, Colchester, UK 13 -15 July, 2011.

[BCI-AR2011](#), **International UKIERI Workshop on the Fusion of Brain-Computer Interfaces and Assistive Robotics**, University of Ulster, Derry, N. Ireland, 7-8 July, 2011.

[ISSC2011](#), **22nd Irish Signals and Systems Conference**, School of Engineering, Trinity College Dublin, Dublin, Ireland 23 -24 June, 2011

[IEEE CIS UKRI GOLD Careers Workshop](#) De Montfort University, Leicester, UK, **13** May, 2011 (FREE) This was a free event organised by the researchers at DeMontfort University, the University of Ulster and IEEE CIS UKRI chapter officer and co-sponsored by the IEEE CIS UKRI chapter.

[Webinar](#) by UKRI member hosted by IEEE Toronto Section Titled: **Type-2 Fuzzy Logic Controllers: A way Forward for Fuzzy Systems in Real World Environments** by [Prof Hani Hagrass](#) School of Computer Science and Electronic Engineering. University of Essex (UK), 26th April, 4pm-5.30pm (BST)

[CIWinterSchool2011](#), **IEEE-CIS/Surrey Winter School on Computational Intelligence - Theory and Industrial Applications**, University of Surrey, Guildford, UK, 3-7 January, 2011. (postponed)

[Webinar](#) by UKRI member Prof. Simon M. Lucas School of Computer Science and Electronic Engineering, University of Essex (UK), titled **Playing Games With N-Tuple Systems**, will be hosted by the IEEE Toronto Section on 29th September, 3pm-4.30pm

[ISSC2010](#), *the 21st Irish Signals and Systems Conference*, School of Engineering, University College Cork, Cork, Ireland, 23 -24 June, 2010

[BIC-TA2010](#), *the 5th International Conference on Bio-Inspired Computing: Theories and Applications*, Liverpool Hope University, Liverpool, UK, 8-10 September, 2010.

The society is also providing technical co-sponsorship to the

[UKCI2010](#), *the 10th Annual Workshop on Computational Intelligence*, University of Essex, September 8-10 is Technically co-sponsored by the IEEE Computational Intelligence Society

Competition

A competition was organised for chapter members in which chapter members could win a society t-shirt.

News

What it means to be a young CI researcher in the 21st century

Congratulations to Stephen Matthews, our [Student Rep](#) and a PhD student from De Montfort University, who won the IEEE Computational Intelligence Society Essay Competition for GOLD members – *What it means to be a young CI researcher in the 21st century*.

The essay is to appear in the IEEE Computational Intelligence Magazine. Stephen will receive a prize of US\$500, an official society certificate, and also an invitation from the GOLD subcommittee chair of the Computational Intelligence Society to get involved in the subcommittee for 2011.



LinkedIn Discussion group for UKRI students doing CI research

If you are a student and want to discuss issues relating to CI research or meet and collaborate with other younger CI researchers in the UKRI please join the group and start introducing and discussing.

The IEEE CIS UKRI Students group promotes active involvement amongst IEEE CIS student members in UKRI chapter, supports a network of students during early stage careers and seeks to harness the potential of students for the progression of research, the society and individual careers.

Plans for 2011

Plans are underway to recruit a few more volunteers to complete the committee and to continue focusing on the chapter development strategy outlined in the newsletter and CI magazine report in 2010. We intend to continue with the series of interviews with prominent CI researchers including in the newsletters. We plan to continue with our seminar series in 2010 and 2011 increase the number of meetings in local areas through the newly recruited geographical area representatives. Our intention is to aim for the society's Best Chapter award soon.