

Computational Intelligence UKRI Chapter

Report March 2010, D. Coyle

Committee

Chair: Dr Damien Coyle, Intelligent Systems Research Centre, University of Ulster

Vice-chair: Dr Ke Chen, School of Computer Science, University of Manchester

Past-chair: Prof Leslie Smith, Department of Computing Science, University of Stirling,

Secretary: TBD

Treasurer: Dr Damien Coyle

England Representative: Simon Coupland, Centre for Computational Intelligence, DeMonfort University

Northern Ireland Representative: Ammar Belatreche, Intelligent Systems Research Centre, University of Ulster

Rep. of Ireland Representative: TBD

Scotland Representative: TBD

Wales Representative: TBD

GOLD Representative: TBD

Women in CI Research Representative: TBD

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

Activities

Currently the chapter is going through a transition phase which saw the re-launch of the website and a number of initiatives which are underway to support the development of the chapter and its aims to contribute towards the progression of computational intelligence research activities and cohesion in the UK and RI and to the success of the society as a whole. The chapter is relatively large, consisting of 205 members (March 1st 2010) including one life member (LM), six fellows (F), 34 senior members (SM), 128 members (M) and 35 graduate student members (GSM). The chapter's primary activity is a series of seminars which it hosts in collaboration with the Intelligent System Research Centre and the School of Computing and Intelligent Systems, University of Ulster. It is the intention that chapter will try to host other meetings in collaboration with seminars being organized within the departments of other committee members. New members have been assigned to the committee to assist in this endeavour. This year, a major focus has and will be on recruiting chapter officers to undertake the following roles: Area representatives, Industrial Liaison, Women Representative, and GOLD representative. The role of geographical area representatives is to organize regular chapter events in their region (at least twice yearly but hopefully many more) and report on the activities and outcomes of these events. For the e-newsletter, each regional representative will keep abreast of other CI-related events, activities, developments and news in their region. The information can then be populated in the chapter newsletter which is distributed to the entire UK chapter bi-annually. The following regional representatives have recently joined the committee - Ammar Belatreche (Northern Ireland Representative) and Simon Coupland (England Representative). We are currently aiming to recruit enthusiastic and committed Wales and Rep. of Ireland representatives. A call will be sent to recruit new volunteers for the available positions.

An invited chapter report has been written and is to be published in the May 2010 edition of the IEEE Computational Intelligence Magazine.

Chapter events in 2009/2010

1. **Seminar on** "Computational intelligence approaches to bio-signal processing for motor imagery-based non-invasive brain-computer interfaces", Intelligent Systems Research Centre, University of Ulster, 2.30pm 10th February, 2010 by Dr. Damien Coyle, University of Ulster, UK
2. **Seminar on** "From biological systems to intelligent robots", Intelligent Systems Research Centre, University of Ulster, 2.30pm 11th November, 2009 by Prof. Huosheng Hu, University of Essex, UK
3. **Seminar on** "Neural coding and decoding: lossy compression and local invariances", Intelligent Systems Research Centre, University of Ulster, 2.30pm 9th November, 2009 by Dr. Alex Dimitrov, Center for Computational Biology, Montana State University, USA.
4. **Seminar on** "System of Systems Engineering: Innovations and Challenges", Intelligent Systems Research Centre, University of Ulster, 3.00pm 2nd July, 2009 by Prof. Mo Jamshidi, The University of Texas San Antonio, Texas, USA.
5. **Seminar on** "Data abstraction and retrieval in Text and Image documents", Intelligent Systems Research Centre, University of Ulster, 4.00pm 28th October, 2009 by Dr. Mourad Oussalah, University of Birmingham, UK.
6. **Seminar on** "Eliza effect and a therapeutic role for robots", Intelligent Systems Research Centre, University of Ulster, 3.00pm 21st October, 2009 by Prof. Bipin Indurkha, IIT Hyderabad, India.
7. **Seminar on** "System of Systems Engineering: Innovations and Challenges", Intelligent Systems Research Centre, University of Ulster, 3.00pm 2nd July, 2009 by Prof. Mo Jamshidi, The University of Texas San Antonio, Texas, USA.
8. **Seminar on** "Steps Towards Adaptive Intranet Search", Intelligent Systems Research Centre, University of Ulster, 3.00pm 3rd June, 2009 by Dr. Udo Kruschwitz, University of Essex, UK
9. **Seminar on** "Fuzzy Spiking Neural Networks", Intelligent Systems Research Centre, University of Ulster, 3.00pm 20th May, 2009 by Dr. Neil Glackin, Intelligent Systems Research Centre, University of Ulster, UK.
10. **Seminar on** "Worlds in Motion: The rise of virtual worlds, beyond Second Life and onto the Metaverse, Intelligent Systems Research Centre, University of Ulster, 3.00pm 12th March, 2009 by Mr. Michael Callaghan and Miss Kerri McCusker, Intelligent Systems Research Centre, University of Ulster.

Technical Co-sponsorship (2009/2010):

The chapter is providing technical co-sponsorship to two very important conferences which are being held in the UKRI this year. These include

[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

Plans for 2010

Plans are underway to recruit volunteers for the positions outlined above. In addition information is being gathered for the chapter newsletter which will be published soon. We intend to have series of interviews with prominent CI researchers including in the newsletters. We plan to continue with our seminar series in 2010 and increase the number of meetings in local areas through the newly recruited geographical area representatives.