

Computational Intelligence Chapter (CIS011) Report to CC Committee for March 2013

Report by : D. Coyle

Position : Chapter Chair

Chapter: in existence as a chapter for 14 years

Chapter Chair: Damien Coyle / dh.coyle@ulster.ac.uk

Other contact details: +44(0)2871675170

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

Student Representative : Mr Stephen Matthews, De Monfort University.

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/>

News

1. **A Distinguished lecture under the society's DLP program was approved by the society and some chapter funding was agreed to support the Distinguished Lecturer travel in the UKRI with possible visit sites in England, Scotland, Northern Ireland and Rep. of Ireland.**

The DLP is scheduled to take place in June 2013 at University of Surrey and at least one other site.

2. **Chapter technical meeting are held at various sites around the UK. If you members wish to hold a technical meeting/seminar with support from the chapter they are requested to contact the chapter chair.**

Details of upcoming technical meetings held in Northern Ireland can be found here :

<http://isrc.ulster.ac.uk/seminars/>

3. **Past chapter reports are available here**

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

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 October 2012 – March 2013.

1. **Seminar on:** "Dealing with non-stationary EEG signals in brain-computer interface"
Venue: Intelligent Systems Research Centre, University of Ulster, 12pm, 1/3/2013
By : Ms Mahnaz Arvaneh, Institute for Infocomm Research (I2R), Singapore
2. **Seminar on:** "HidInImage"
Venue: Intelligent Systems Research Centre, University of Ulster, 12pm, 12/12/2012
By : Mr Pratheepan Yogarajah, University of Ulster, Magee.
3. **Seminar on:** "IM-CLeVeR EU Project: "Intrinsically Motivated Cumulative Learning Versatile Robots"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 28/11/2012
By : Dr. Shafiu Alam, University of Dhaka, Bangladesh.
4. **Seminar on:** "Genetic and swarm optimisation algorithms for modelling and control of dynamic systems"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 14/11/2012
By : Dr Yiannis Gatsoulis, University of Ulster, Magee.
5. **Seminar on:** "A Case Study on neuroprosthetic applications Using Neural Network FPGA Based Hardware Modelling"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 10/10/2012
By : Dr. Shufan Yang, University of Ulster, Magee.

Chapter meetings/events in Nov 2011 – October 2012.

6. **Seminar on:** "Graph Similarity -- Counting Through Matrices"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 6/6/2012
By : Prof. Hui Wang, School of Computing and Mathematics, University of Ulster.
7. **Seminar on:** "Enhancing the performance of a practical BCI system"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 14/3/2012
By : Mr. Viabhav Gandhi, BCI & Assistive Technology team, Intelligent System Research Centre (ISRC), University of Ulster.
8. **Seminar on:** "Challenges in simple and hybrid brain computer interfaces"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 01/3/2012
By : Dr. Shahjahan Shahid, Intelligent System Research Centre (ISRC), University of Ulster.
9. **Seminar on:** "Large Scale Long Term Urban Navigation using Vision and Laser"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 20/1/2012

By : Prof. Paul Newman, Oxford University, UK.

10. **Seminar on:** "The Neuromorphic AER: Spiking from sensors to actuators"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 19/1/2012
By : Prof. Alejandro Linares Barranco, University of Seville, SPAIN
11. **Seminar on:** "Graphical Robotic Mapping: Theory and Application in Marine and Terrestrial Domains"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 6/1/2012
By : Dr. Maurice Fallon, Computer Science and Artificial Intelligence Laboratory (CSAIL), MIT, USA
12. **Seminar on:** "Visual Image Processing Using Spiking Neural Network Models"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 7/12/2011
By : Dr. QingXiang Wu, BISNE research team, Intelligent System Research Centre (ISRC), University of Ulster
13. **Seminar on:** "Modelling of Auditory system for sound localization with pitch information"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 23/11/2011
By : Dr. Takatoshi Okuno, BISNE research team, Intelligent System Research Centre (ISRC), University of Ulster
14. **Seminar on:** "Enhancement in Application of Diffusion Tensor Imaging by Independent Component Analysis"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 16/11/2011
By : Dr. Min Jing, Computational Neuroscience Research Team(CNRT), Intelligent System Research Centre (ISRC), Intelligent System Research Centre (ISRC), University of Ulster
15. **Seminar on:** "Modelling people's movements patterns to enhance indoor tracking systems"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 9/11/2011
By : Dr. Eoghan Furey, Ambient Intelligence Team, Intelligent System Research Centre (ISRC), Intelligent System Research Centre (ISRC), University of Ulster
16. **Seminar on:** "Addressing the Problem of Detecting Multi-Occupants in Device-Free Passive Localisation Scenarios"
Venue: Intelligent Systems Research Centre, University of Ulster, 1.00pm, 26/10/2011
By : Mr. Gabriel Deak, Intelligent System Research Centre (ISRC), Intelligent System Research Centre (ISRC), University of Ulster

Technical Co-sponsorship (2012-2013):

The chapter is providing (has provided) technical co-sponsorship to a number of UKRI based events in 2012/2013. These include

[SAI2013](#), **Science and Information (SAI) Conference**, London, UK, 7-9 October 2013

[Loebner2013](#), **International Loebner Prize 2013 Contest in Artificial Intelligence (AI)**, Derry, Northern Ireland, 14 September, 2013.

[UKCI2013](#), **13th Annual Workshop on Computational Intelligence**, University of Surrey, Edinburgh, UK, 9-11 September, 2013.

[**ISSC2013, 24th Irish Signals and Systems Conference**](#), Letterkenny Institute of Technology, Letterkenny, Co. Donegal, Ireland 20 -21 June, 2013.

[**Webinar: An automatic method for forensic identification based on soft computing techniques**](#)

by Prof. Oscar Cordon at the University of Granada (UGR), Granada, Spain, 4th December, 2012, 11.00am (CET)

[**UKCI2012, 12th Annual Workshop on Computational Intelligence**](#), Heriot-Watt University, Edinburgh, UK, 5-7 September, 2012.

The UKRI Chapter supports this workshop which the IEEE Computational Intelligence Society is technically co-sponsoring

[**IEEE CIS UKRI GOLD Careers Workshop**](#) Herriot-Watt University, Edinburgh, UK, September, 2012 (FREE)

[**ISSC2012, 23rd Irish Signals and Systems Conference**](#), School of Engineering, NUI, Maynooth, Dublin, Ireland 28 -29 June, 2012.

Plans for 2013

Recruit a few more volunteers to complete the committee and to continue focusing on the chapter development strategy and supporting members. We intend to attempt to rehash the newsletter. We plan to continue with our seminar series in 2013 and increase the number of meetings in other parts of the UKRI through the newly recruited geographical area representatives. Our intention is to aim for the society's Best Chapter award in 2013. We also hope to actively participate in the organisation of innovative conferences and workshops and will focus on continuing our GOLD careers event next year. We hope to finalise the DLP visit arrangements for June 2013 and organise another in late 2013.