



UCD CASL

Complex & Adaptive Systems Laboratory

**Dr. Michael O'Neill**

**Dr. Miguel Nicolau**

*COMP30290 Natural Computing*

*COMP41190 Natural Computing and Applications*

*Academic year 2013/2014*





## Housekeeping

- ▶ Module coordination, lectures and assessment: Dr. Michael O'Neill and Dr. Miguel Nicolau;
- ▶ Contact hours: Tuesdays and Thursdays 3pm - 5pm;
- ▶ Other contact times: please arrange by mail (M.ONeill@ucd.ie or Miguel.Nicolau@ucd.ie).



## Assessment Instruments

### COMP30290 (5 Credit Module)

- ▶ Mini project resulting in a 10 page conference-style paper.

### COMP41190 (10 Credit Module)

- ▶ Mini project (**with application and/or advanced method focus**) resulting in a 10 page conference-style paper;
- ▶ Written exam (50%).



## Module Overview

### Learning outcomes

- ▶ Outline the main Natural Computing algorithms;
- ▶ Compare and contrast the different Natural Computing methods;
- ▶ Solve a problem using Natural Computing;
- ▶ Write an academic paper.



## Module Overview

### COMP30290

- ▶ Lectures introduce NC methods;
- ▶ Each of you **must** read around NC and your preferred NC method;
- ▶ Each of you **must** propose a mini-project by Thursday 10<sup>th</sup> October (week 5) 3pm (20%);
- ▶ 10-page paper is due by Thursday 28<sup>th</sup> November (week 12) 3pm (80%).

Module Website: <http://ncra.ucd.ie/COMP30290>



## Module Overview

### COMP41190

- ▶ Lectures introduce NC methods;
- ▶ Each of you **must** read around NC and your preferred NC method;
- ▶ Each of you **must** propose a mini-project by Thursday 10<sup>th</sup> October (week 5) 3pm (10%);
- ▶ 10-page paper is due by Thursday 28<sup>th</sup> November (week 12) 3pm (40%);
- ▶ Written exam December (50%).

Module Website: <http://ncra.ucd.ie/COMP41190>



## Module Overview

### Lectures:

- ▶ Material presented 3pm - 4pm;
- ▶ Tutorials / reading group discussions 4pm - 5pm (week dependent - check lectures/website for announcements).

### Project:

- ▶ Example projects available from website;
- ▶ Start thinking about your project ideas **NOW!**