

The Evolutionary Computing Machine Learning Group

School of Computer Science and IT, RMIT University
Melbourne, VIC 3000, Australia

ABOUT THE ECML GROUP

ECML is a research group of academics and students who are interested in studying and developing nature-inspired computational models and algorithms, especially in the areas of Evolutionary Computation and Machine Learning methods, and applying them to real-world problems.

RESEARCH

A wide variety of research topics are explored within the ECML group. The following are some of the areas that ECML is actively involved in:

1. Genetic Programming
2. Artificial Neural Networks
3. Evolutionary Algorithms applied to Robosoccer
4. Evolutionary Art
5. Coevolutionary algorithms
6. Evolutionary Multiobjective Optimization
7. Optimization in Dynamic Environments
8. Swarm Intelligence
9. Data Mining
10. Particle Swarms and Differential Evolution

In addition to the above projects, we also have many undergraduate students working on projects in the area of Evolutionary Computation and Machine Learning, most of which are supervised by staff through the course COSC1207/2033 Evolutionary Computing or as individual research project for one semester.

TEACHING

ECML is responsible for delivering a 3rd year course COSC1207/2033 Evolutionary Computing. We are also involved in other AI related courses:

1. COSC1125/1126/1127 Introduction to Artificial Intelligence
2. COSC1165/1167 Intelligent Web Systems

ECML MEETINGS

ECML group meetings run every Friday, from 1:30pm to 2:30pm, usually in 10.11.104. Our discussions revolve around the research that our honours, masters, and doctorate candidates are conducting, as well as many other aspects of Evolutionary Computation and Machine Learning. You're welcome to come along and listen, or participate in our discussions at our weekly meetings.

CONTACT INFORMATION

For further information please contact Associate Professor Vic Ciesielski at the School of Computer Science and IT, RMIT University.

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More information about our group is available at goanna.cs.rmit.edu.au/~xiaodong/ecml.