

# 2009 IEEE Congress on Evolutionary Computation

Trondheim, Norway, 18-21 May, 2009

## Special Session on Evolutionary Computer Vision

Web site: <http://www.mcs.vuw.ac.nz/~mengjie/ecv09.html>

Computer vision is a major unsolved problem in computer science and engineering. Over the last decade there has been increasing interest in using evolutionary computation approaches to solve vision problems. Computer vision provides a range of problems of varying difficulty for the development and testing of evolutionary algorithms.

The theme of the proposed special session is the use of evolutionary computation for solving computer vision and image processing problems. This special session seeks to highlight the latest developments in this research area by bringing together researchers and practitioners in both evolutionary computation and computer vision. Authors are invited to submit their original and unpublished work to this Special Session. Topics of interest include but are not limited to

### All computer vision and image processing tasks such as

- Image preprocessing
- Edge detection
- Segmentation
- Image feature selection/construction
- Object classification and object detection
- Texture analysis and classification
- Image Compression and image enhancement
- Robot vision

### using any kind of evolutionary computing related techniques such as

- Genetic Algorithms
- Genetic Programming
- Particle Swarm Optimisation
- Evolutionary Strategy
- Evolutionary Programming
- Artificial life
- Evolutionary Multiobjective optimisation
- Coevolution
- Estimation of Distribution Algorithms
- Evolvable Hardware

### and any kind of hybrid evolutionary methods such as

- Hybrid evolutionary-neural approaches
- Hybrid evolutionary-fuzzy approaches
- Hybrid evolutionary-symbolic learning approaches
- Hybrid evolutionary-probabilistic learning approaches

### Important dates:

- Paper Submission: 1 November 2008
- Decision Notification: 16 January 2009
- Camera-Ready Submission: 16 February 2009

### Paper Submission:

You should follow the [IEEE CEC 2009 instructions of authors](#). Special session papers are treated the same as regular conference papers.

### Special Session Organizers:

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The 2009 IEEE CEC Web site can be seen from <http://www.cec-2009.org>

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