WCCI 2010

IEEE World Congress on Computational Intelligence

July 18 -23, 2010, Barcelona, SPAIN, http://www.wcci2010.org

Submission Deadline Extended to: February 07, 2010

Call for Papers for Special Session on:
Ensemble Methods and Applications

http://www.cmp.uea.ac.uk/~wjw/IJCNN2010ema.html

Introduction

Ensemble that combines multiple trained individual models through a combination strategy appears to be a logical and promising approach to utilise the strengths of some individuals to compensate the weaknesses of others in order to produce better and reliable solutions for complex problems. This approach has become increasing popular and been widely applied in various real-world problems. However, there are still some fundamental issues that are not well understood and worth of further investigations. For example, what factors and in what extent they affect the performance of an ensemble? What methodology and procedure should be used for constructing effective ensembles more efficiently, what are the constraints and challenges of the ensemble approach? Following two successful previous special sessions in the WCCI2006/2008, this special session will continue provide a focused platform for researchers from a widened spectrum to report their progresses made in the last two years and to exchange their experiences of both successes and failures on ensemble methods and applications, and also to identify the challenging issues for the future.

Topics

The major topics of interests for this special session include, but are not limited to:

- Ensemble methodology, strategies and techniques
- Homogeneous and heterogeneous ensembles
- Diversity definition and measurement
- Techniques for generating diverse models
- Ensemble performance evaluation methods and comparisons with other approaches
- Model selection methods and strategies
- Decision fusion strategies and effectiveness
- Ensemble for classification and regression
- Clustering ensembles
- Ensemble for feature ranking and selection
- Ensemble Implementation and software development
- Ensemble for various applications.

Special session papers are treated the same as regular conference papers and will be included in the conference proceedings. Please choose the special session's code when submitting your papers.

Submission

- All special session papers must be submitted through the WCCI 2010 submission webpage, where Instructions for Authors are also available.
- **Please select "S33: Data Mining Ensemble Methods and Applications" as your main research topic**.
- A paper is limited **to 8 pages**, including all figures, tables, graphs and bibliography entries.

Important dates

- **Submissions:** **February 07, 2010**

- Notification: March 15, 2010
- Camera ready: May 2, 2010
- Conference: July 18-23, 2010

You are welcome to contact the organiser in advance if you are interested in submitting any papers.

Special Session Organiser and Technical Committee:

- **Organisers and Chairs**: Dr. Wenjia Wang, University of East Anglia (UEA), UK.

- **Technical Committee(TBC)**: Derek Partridge (University of Exeter, UK), Zhi-Hua Zhou (Nanjing University, China), Ning Zhong (Maebashi Institute of Technology, Japan), Philip Yu (UIC, USA),Yinhui Jun (University of Manchester, UK), Geoffrey. Guile (UEA), Gavin Cawley (UEA), Daniel Neagu (University of Bradford, UK), Beatriz de la Iglesia (UEA).

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