Special Issue of the Journal of Progress in Artificial Intelligence on Interactive Classification in Evolving Environments

About the Journal

The journal of Progress in Artificial Intelligence publishes top-level research results in all aspects of artificial intelligence, with a particular emphasis on the following topics: data mining; soft computing and computational intelligence; knowledge, complexity, logic, planning, reasoning and search; agents and multiagent systems; artificial vision and robotics; and natural language and Web intelligence.

The journal is published in cooperation with the Iberian associations of artificial intelligence, AEPIA and APPIA, and the Editorial Board includes leading international figures in all related research topics.

Aims & Scope of the Special Issue

The range of applications in which classification techniques are being used effectively is ever growing. From astronomy to zoology classification techniques are helping scientists, business people, consumers and governments to extract actionable insight from their data. This widened usage is creating new challenges for classification researchers as different applications imply different constraints on how a classification technique can be used, requiring researchers to use classification techniques in novel and creative ways. In particular, two groups of techniques are growing in importance. First are interactive approaches that allow analysts to intervene in the process of training or using a classification model. Second are evolving approaches that cope elegantly with the fact that the concepts that classification models are trained to model evolve over time. Classification techniques that take these issues into account can be of massive benefit in taking classification models out of the research lab and into the wild.

Authors & Themes

Potential authors for this special issue should be researchers who are working on interactive classification in evolving environments. All papers should present original research and innovative results.
Submissions are invited on topics including, but not limited to, the following:

- Active learning
- Feature selection
- Interactive machine learning
- Concept drift
- Crowd-sourcing
- Model selection
- Visualisation

**Submissions**

Manuscripts should be prepared according to the guidelines given on the journal’s website at:

http://www.springer.com/computer/database+management+%26+information+retrieval/journal/13748

Submissions should be made through a dedicated EasyChair site for the special issue which can be accessed at:

https://www.easychair.org/conferences/?conf=paiicee2012

**Important Dates**

The schedule is as follows:

- 14th November, 2011: Submissions deadline
- 16th January, 2011: Review notification
- 13th February, 2011: Revised paper due
- 20th February, 2011: Editor will provide feedback
- 2nd March, 2011: Final manuscript

**Guest Editor**

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