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Special Session PARENG2011-S13: Pattern Recognition and Data Mining with Clouds, Grids, and Wireless Sensor Networks

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Theme
The aim of this session is to consider datamining and pattern recognition techniques in applications leading to large data sets e.g. finite element analysis (FEA), structural health monitoring (SHM), long-term environmental research, computational medicine, and any of the other eScience areas.

Scope

- Distributed computing techniques such as Google/Hadoop MapReduce for large-scale datamining and pattern recognition.
- Cluster and grid based techniques for distributed pattern recognition and datamining.
- Parallel computing techniques for real-time pattern recognition.
- Novel single-cycle learning algorithms for online pattern recognition.
- Event detection and target tracking with wireless sensor networks (WSN).
- Energy efficient techniques for resource constrained devices.
- Advances network security techniques for distributed systems such as grids, clusters, and WSN.
- Blueprints of datamining and pattern recognition techniques for process automation, design optimisation, and enhancing data interpretation.
Please note that papers that are found to fall outside the scope of this session may be considered for other sessions.

To submit abstracts for this special session, please email the organisers directly at (asad.khan AT infotech.monash.edu.au) or alternatively submit your abstract directly to the Conference Editor using the abstract submission portal. If you use the portal, please do not forget to mention that your abstract is part of special session PARENG2011-S13.

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