

Computational Intelligence Techniques Applied to Software Estimation

Special Session in SERA 2010

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Software estimation can involve size, effort, schedule, costs, and quality prediction, whereas computational intelligence techniques have been recently applied to software engineering scope. Software estimation practice can be used in the large (industrial environments) as well as in the small (academic environments) projects, and these computational intelligence techniques applied to software estimation can be based upon (but not limited to) fuzzy logic, artificial neural networks or evolutionary computing. Results accuracy of this kind of techniques could be compared each other as well as with those of statistic models.

Papers should include sections related to the experimental context (industrial or academic environments), hypotheses, measurements, experimental design including population studied and sample characteristics, experiment implementation and data collection, analysis (identifying outliers or influential observations, and ensuring that data do not violate the assumptions of the tests used on them: i.e. normality, independence, or equal variances), results presenting the raw data or providing where they are available, and describing each accuracy evaluation criterion for models (i.e. MMER or MMRE), and interpretation of these results. Each model from estimation technique should be depicted based on the following two stages: (1) when it has been checked its adequacy or model verification (when each model is generated and then applied to original data set and their accuracy is evaluated), and (2) when it has been validated applying it to a new data set for predicting (the effort, schedule, costs or quality).

Submitted papers must not be previously published or be under consideration for publication elsewhere. All papers accepted for the session will be published in the proceedings of the 8th ACIS International Conference on Software Engineering Research, Management and Applications (SERA2010).

The papers are due on February 1st, 2010. The authors will receive acceptance notification on March 1st, 2010. The camera ready papers & registration deadline is March 15th, 2010.

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