

Editorial

The second issue of the fourth volume of JIDM features nine high quality articles, divided in three sections.

The first section, Research Groups, presents an article that describes the activities of a very productive and renowned South American database group: the Chilean Database Group. The large and high quality list of publications of this group reflects its influence in the database area.

The second section brings four articles that complete the series of selected short papers presented at SBBD 2012, the XXVII Brazilian Symposium on Databases held last October in São Paulo. All of them describe ongoing work and have been selected by the SBBD 2012 program committee for their innovative ideas. The first article presents three new approaches to model and measure query instance and query type interactions. The second article proposes a new heuristic for reducing the number of calculations needed in the classification step of K-Means. The third article exploits semantic related to data in spreadsheets to support data extraction. Finally, the fourth article explores the DataPeeler algorithm and show that a minimal (resp. maximal) cover of some arbitrary groups of elements is anti-monotone (resp. monotone).

Finally, the third section features four articles that are extended and revised versions of selected papers presented at GeoInfo 2012, the XIII Brazilian Symposium on GeoInformatics. GeoInfo is a series of scientific meetings that provide an annual forum for exploring research, development and innovation in geographic information systems and related fields. Many contributions to GeoInfo have a strong connection to databases and data management in general, adding aspects on subjects such as spatial and temporal representation, specialized ontologies, visualization, simulation and analysis, therefore addressing research topics usually covered by JIDM. The four articles in this section are a good sample of the kind of work presented at GeoInfo 2012, with the usual thematic diversity and involving specific aspects of information and data management. The first article presents techniques to determine the attractiveness of places, considering moving objects and spatiotemporal trajectory data. The second one concerns visualization for spatiotemporal data in the context of exploratory spatiotemporal data analysis. Next, the third article explores ontologies to provide access to geographic data in a peer data management system, targeting query answering and data visualization. The last article describes a visualization pipeline for dynamic spatial models, as required to support data-intensive simulations of real-world phenomena, particularly for Earth system science.

We hope you enjoy this issue of JIDM and look forward to meeting you in Recife at SBBD 2013.

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