

Editorial

Maria Cristina Ferreira de Oliveira

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This second issue of volume 17 of the Journal of the Brazilian Computer Society includes four interesting contributions on diverse topics in computer science and its applications.

The first paper is authored by Danny Hughes, Jo Ueyama, Eduardo Mendiondo, Nelson Matthys, Wouter Horr , Sam Michiels, Christophe Huygens, Wouter Joosen, Ka Lok Man and Sheng-Uei Guan. They describe an application of wireless sensor networks in environmental monitoring, detailing the design and implementation of a next-generation hardware platform and associated middleware for river monitoring and flooding warning. Their system has been deployed and evaluated in a real-world river monitoring scenario.

Rodrigo Rafael Villarreal Goulart, Vera L cia Strube de Lima and Clarissa Castell  Xavier present a systematic survey of literature on named entity recognition applied to biomedical scientific articles. By analyzing relevant articles published from 2007 to 2009, they identify representative approaches for recognition of biomedical named entities, as well as approaches and methodologies employed for implementing named entity recognition systems. They also identify gaps and open research questions in the area.

Ricardo J. Ferrari, St phane Allaire, Andrew Hope, John Kim, David Jaffray and Vladimir Pekar contribute a paper on medical image analysis. They introduce a novel technique for automatic detection of anatomical point landmarks in volumetric medical images, based on a three-dimensional Phase Congruency model. The feasibility and usefulness of their technique is illustrated on two different application scenarios in radiation therapy planning of the head and neck anatomy.

Finally, Ana L cia Cetertich Bazzan reports an investigation on the scientific collaboration network formed by members of the Brazilian computer science community and their co-authors. Based on data stored in the JEMS platform maintained by the Brazilian Computer Society, she investigates the role played by researchers who served as program committee members of Brazilian conferences in this network. She compares results with those reported in similar studies of other scientific collaboration networks, finding out that the Brazilian network shows some unique characteristics.

M.C.F. de Oliveira (✉)
University of S o Paulo, S o Paulo, Brazil
e-mail: cristina@icmc.usp.br