Guest Editorial: Fifth Latin American Workshop on Non-Monotonic Reasoning 2009, (LANMR’09)

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This special issue contains a selection of four articles from LANMR’09, the Fifth Latin American Workshop on Non-Monotonic Reasoning 2009. LANMR is an annual event held continuously since 2004. Its main objective is to provide an international forum for discussion and exchange of experiences in formal areas of Computer Science such as Logic, Formal languages, Algorithms, and Non-Monotonic Reasoning. The fifth edition of the workshop, LANMR’09, was placed in the Facultad de Ciencias Básicas, Ingeniería y Tecnología, Universidad Autónoma de Tlaxcala in Apizaco, Tlaxcala, México between 5th and 6th of November of 2009.

LANMR’09 received 19 papers, each evaluated by 2 experts in the paper’s main topic. Members of the program committee selected 13 out of the 19 papers for presentation at the workshop. The program committee was conformed by around 23 researchers from around the world, with expertise covering a wide spectrum of formal areas of Computer Science. In addition to the PC members, 6 reviewers collaborated in the evaluation process.

The topics addressed at the workshop were wide and rich, such as: Logic programming and non-monotonic reasoning, Algorithms applied to logic, Answer Set Programming, Knowledge representation, Belief representation, Paraconsistent logics, Deduction techniques, Automated reasoning, Non-classical logics, Reasoning about situations and actions, Planning, Algorithms for graph theory in AI, Multi-agent systems, Preferences, Default and abductive reasoning, and Argumentation.

In addition to these presentations, the Workshop had three invited talks and one invited paper. Leopoldo Bertossi, from Carleton University, Ottawa, Canada; Juan Antonio Navarro Perez, from Max Planck Institute for Software Systems, Germany; Cesar Bautista Ramos from Benemérita Universidad Autónoma de Puebla, México; and Luís Moniz Pereira and Alexandre Miguel Pinto, the authors of the invited paper, from Universidade Nova de Lisboa, Caparica, Portugal.

As mention above, among the 13 selected papers, the best 4 were selected for publication in this special issue, each evaluated by at least 3 experts in the paper’s main topic. To assure higher standards, a second round of evaluations was performed on these four articles. The selected papers were the following:

- Modelling autonomic dataspaces using answer sets by Gabriela Montiel Moreno, José Luis Zechinelli-Martini and Genoveva Vargas Solar.
- Efficient Computation of the Degree of Belief for a Subclass of Two Conjunctive Forms by Guillermo de Ita Luna and Carlos Guillén Galván.
• Functional first order definability of LRTp by Raymundo Marcial Romero and J.A. Hernández.
• A Lower Bound for Answer Set Solver Computation by Stefania Costantini and Alessandro Provetti.

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