

Latin American Workshop on Logic Languages, Algorithms and New Methods of Reasoning (LANMR)

Preface

Since 2004, the Mexican Logic and Computation Mexican Group, GMLogyC¹ has organized a number of meetings and workshops devoted to Logic and Computational Knowledge Representation. This initiative has been supported by a number of Mexican universities and research institutions. In particular GMLogyC organizes *Latin American Workshop on Logic / Languages, Algorithms and New Methods of Reasoning* (LANMR) a meeting of researchers in Computer Science Logic².

LANMR workshops have been international forums where the Latin American community interested in formal areas of Computer Science, meets together for presenting and discussing the research and development carried out all over the world.

The objective of LANMR workshops is to bring together active Latin American researchers from different academic institutions who share a common interest in formal areas of Computer Science such as Computational Logic, formal languages, algorithms, and Knowledge Representation. Particular topics of interest are: logic programming and non-monotonic reasoning, logic-related algorithms, answer set programming, knowledge representation, belief representation, paraconsistent logics, deduction techniques, automated reasoning, reasoning about situations and actions, planning, preferences, default and abductive reasoning, argumentation, and other related topics.

This issue of *Fundamenta Informaticae* contains extended and revised versions of papers selected from 13 papers that were presented at the Sixth edition of LANMR workshop. It is worth mentioning that we received 15 papers in LANMR 2010 and 13 of them were accepted. The list of these papers and details of the Program Committee are at the Volume 677 of CEUR Workshop Proceedings (see <http://sunsite.informatik.rwth-aachen.de/Publications/CEUR-WS/Vol-677/>).

The selection process involved selecting the best seven papers from LANMR 2010, according to the original evaluations of the referees. Next, we invited the authors of these seven papers to present a journal version including proofs of results.

¹<http://gmlogyc.googlepages.com>

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All the papers in this special issue were reviewed by at least two reviewers of the Evaluation Committee selected for this particular task. The members of that Committee were:

Leopoldo Bertossi from Carleton University, Canada; Pedro Cabalar from Corunna University, Spain; Stefania Costantini from University of L'Aquila, Italy; José Raymundo Marcial from Universidad Autónoma del Estado de México, Mexico; Raul Monroy from Instituto Tecnológico de Monterrey, Campus Estado de México, Mexico; Guillermo Morales from Centro de Investigación y Estudios Avanzados del IPN, Mexico; Juan Antonio Navarro from Max Planck Institute for Software Systems, Germany; Juan Carlos Nieves from Universitat Politècnica de Catalunya, Spain; Luis Moniz Pereira from New University of Lisbon, Portugal; Claudia Zepeda from Benemérita Universidad Autónoma de Puebla, Mexico; José Luis Carballido from Benemérita Universidad Autónoma de Puebla, Mexico; Ricardo Pérez from Universidad Tecnológica de la Mixteca, Mexico; Genoveva Vargas from Laboratory of Informatics of Grenoble, France; Jorge Lobo from IBM Research, USA; Sandra de Amo from Faculdade de Computação, Brazil; José Arrazola from Benemérita Universidad Autónoma de Puebla, Mexico; Marcelo Finger from Universidade de Sao Paulo, Brazil; Victor W. Marek from University of Kentucky, USA; and Mauricio Osorio from Universidad de las Américas - Puebla, México.

As the result of that selection process the following papers were accepted:

1. Solving the International Timetabling Competition: a Deterministic Approach by Oscar Chávez-Bosquez and Pilar Pozos-Parra.
2. Nested Preferences in Answer Set Programming by Roberto Confalonieri and Juan Carlos Nieves.
3. A Possibilistic Argumentation Decision Making Framework with Default Reasoning by Juan Carlos Nieves and Roberto Confalonieri.
4. A Threshold for a Polynomial Solution of #2SAT by Guillermo De Ita, J. Raymundo Marcial-Romero, and J. A. Hernández
5. Armin: Automatic Trance Music Composition using Answer Set Programming by Flavio Omar Everardo Pérez and Fernando Antonio Aguilera Ramírez.

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Editors of the issue

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