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Guest Editorial: Workshops by the Logic and Computation Mexican Group

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The Logic and Computation Mexican Group¹(GMLogyC) with the support of different Mexican universities and institutions has organized different workshops since 2004. The most relevant workshop that is periodically organized by the group is called *Latin American Workshop on Non-Monotonic Reasoning* (LANMR).

The objective of LANMR workshops is to bring together active researchers from different academic institutions who share a common interest in formal areas of Computer Science such as logic, formal languages, algorithms, and non-monotonic reasoning. Particular topics of interest are: knowledge representation, belief revision, reasoning about actions, planning, logic programming, causality, and other related topics. In Latin America there are several research groups interested in these topics. The number of papers and workshops submitted to different Latin American congresses related with non-monotonic reasoning such as IBERAMIA, ENC and MICAÍ provides evidence of such interest.

So, LANMR workshops have been designed to promote cooperation among practioners and researchers across disciplines who are interested in theory and practical implementations of non-monotonic reasoning (NMR). The aim of LANMR workshops are:

- to present innovative theoretical work and original applications of NMR,
- to exchange ideas and to facilitate interaction between researchers in NMR,
- to discuss significant recent achievements in the theory and automation of NMR,
- to present critical short and long term goals for NMR,
- to discuss significance of NMR to knowledge representation and AI in general, and
- to provide a forum for students to present their current research and receive feedback from other students and researchers.

The first LANMR workshop was held in El Antiguo Colegio de San Ildefonso, Mexico City on April 26th, 2004. This first edition of this workshop was organized as a satellite event to the Mexican International Conference on Artificial Intelligence 2004 (MICAÍ 2004). The on-line proceedings of LANMR 2004 were edited by Mauricio Osorio from Universidad de las Américas, Puebla and Alessandro Provetti from University of Messina, Italy (CEUR, Volume 92). The Invited Speaker was Prof. Chitta Baral

¹<http://gmlogyc.googlepages.com>

form Arizona State University, U.S.A. Among the members of the program committee were: Leopoldo Bertossi from Carleton University, Canada; Michael Gelfond from Texas Tech University, USA; Marina de Vos from University of Bath, England; Guillermo De Ita from Benemérita Universidad Autónoma de Puebla; Jos  Arrazola from Benem rita Universidad Aut noma de Puebla, and Fernando Zacarias from Benem rita Universidad Aut noma de Puebla.

The second edition of the workshop was held in San Luis Potos  City, Mexico on September 18th, 2006. It was also organized as a satellite event, but now to the “Encuentro Internacional de Computaci n 2006” (ENC 2006) and supported by the Universidad Aut noma de San Luis Potos . The on-line proceedings of LANMR’06 were edited by Mauricio Osorio from Universidad de las Am ricas, Puebla; Claudia Zepeda from Universidad Polit cnica de Puebla; Pilar Pozos from Universidad Tecnol gica de la Mixteca; and Guillermo De Ita from Benem rita Universidad Aut noma de Puebla (CEUR, volume 217). Among the members of the program committee were: Alfredo Gabaldon from National ICT Australia, Australia; Christine Solnon from Universit  Lyon 1; Richard Booth from Mahasarakham University, Thailand; Guillermo De Ita from Universidad Polit cnica de Puebla; Jos  Arrazola from Benem rita Universidad Aut noma de Puebla; and Rogelio D vila from Universidad de Guadalajara.

Finally the third LANMR was held in Puebla City, Mexico on September 17-19, 2007. This Third edition of the workshop was organized by diverse Mexican Universities. The on-line proceedings of LANMR’06 were edited by Jos  Arrazola from Benem rita Universidad Aut noma de Puebla; Mauricio Osorio from Universidad de las Am ricas, Puebla; Claudia Zepeda from Universidad Polit cnica de Puebla; and Pilar Pozos from Universidad Tecnol gica de la Mixteca (CEUR, volume 286). The Invited Speakers were: Otavio Bueno, Robert Demolombe, Guillermo Morales, Rogelio D vila, and Hector Jimenez. Among the members of the program committee were: Jean Yves Beziau from University of Neuch tel, Switzerland; Christine Solnon from Universit , Lyon 1, France; Laurent Perrussel from Universit , Toulouse 1, France; Jos  Arrazola from Benem rita Universidad Aut noma de Puebla; and Rogelio D vila from Universidad de Guadalajara.

Currently LANMR 2008 is interested in more general topics related to Computer Science. Now we use the LA part of to stand both for Languages/Logic + Algorithms, as well as for “Latin America”.

The GMLogyC group also organized the Workshop in Logic, Language and Computation 2006 (LoLaCOM06) that was co-located with the Fifth Mexican International Conference on Artificial Intelligence (MICA 2006), and took place 13th - 14th November, 2006 at the Instituto Tecnol gico de Apizaco in Apizaco, Tlaxcala, Mexico. The aim of LoLaCOM06 was to bring together active researchers within three areas of interest related to Artificial Intelligence: Logic and language, Logic and computation, and Language and computation. These areas include a wide variety of topics such as logic programming, formal approaches to natural language processing, knowledge representation, belief revision, discourse representation, reasoning about actions, planning, causality, and other related fields. In Latin America there are several research groups interested in these areas. The on-line proceedings of LoLaCOM06 were edited by Rogelio D vila from Universidad de Guadalajara, Mauricio Osorio from Universidad de las Am ricas, Puebla; and Claudia Zepeda from Universidad Polit cnica de Puebla (CEUR, volume 92). Among the members of the program committee were: Chris Fox from University of Essex, UK; Vladimir Lifchitz from University of Texas at Austin, USA; Pablo Noriega from Universitat Aut noma de Catalunya, Spain; Guillermo De Ita from Universidad Polit cnica de Puebla; Jos  Arrazola from Benem rita Universidad Aut noma de Puebla, and Rogelio D vila from Universidad de Guadalajara.

LANMR and LoLaCOM workshops have been international forums where the Latin American non-monotonic reasoning community meets together for presenting and discussing the research and development carried out all around the world.

This volume contains revised versions of the best 4 papers from 44 papers that were presented at the First, Second and Third editions of LANMR and LoLaCOM workshops. The details about the selection process are the following: We first selected the best two papers from each workshop, according to the original evaluation of the referees. Then, we selected six of these papers. We invited the authors of these six papers. One of them declined the invitation. Then, each paper was assigned to two or three referees. We should mention that, due to the fact that one of the authors of these last papers is editor of this special issue, his article was controlled by Pedro Cabalar from Corunna University. As a result four papers were accepted and one was rejected.

The selected papers are the following:

1. Toward Formalizing Non-monotonic Reasoning in Physics: The use of Kolmogorov Complexity to Formalize the Notions of "Typically" and "Normally" by Vladik Kreinovich.
2. Integrating State Constraints and Obligations in Situation Calculus by Robert Demolombe and Pilar Pozos Parra.
3. Implementing Pstable by Alejandra Lopez. The current revised paper changed its information to: Syntactic transformations rules under P-stable semantics: theory and implementation by Simone Pascucci and Alejandra Lopez
4. Inferring preferred extensions by Pstable semantics by Jose Luis Carballido², Juan Carlos Nieves, and Mauricio Osorio

We would like to thank the referees that participated in the evaluation of the papers for this special issue, in particular to: José Arrazola from Benemérita Universidad Autónoma de Puebla, Guillermo Morales from CINVESTAV, Juan Antonio Navarro from Max Planck Institute for Software Systems, Michael Gelfond from Texas Tech University, Ricardo Pérez from Universidad Tecnológica de la Mixteca, Magdalena Ortiz from Technische Universität Wien, and specially to Pedro Cabalar for his support.

This volume also commemorates the first 50 years of Computer Science in Mexico.

We would like to express our sincere thanks to all contributing authors as well as to Editor Lawrence Mandow for the invitation to edit this special issue.

²A new invited co-author