

LATIN AMERICAN APPLIED RESEARCH

SPECIAL ISSUE

Contributions from

XI RPIC -Workshop on Control and Information Processing

(Reunión de Trabajo en Procesamiento de la Información y Control)

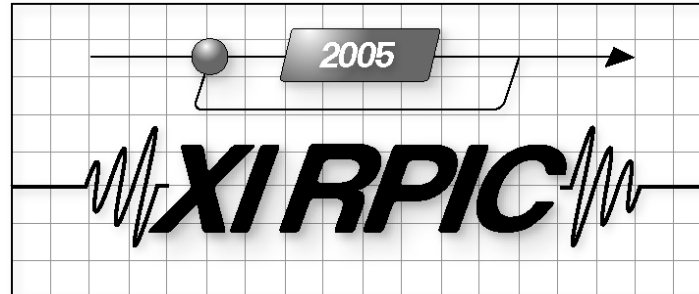
Río Cuarto, Argentina, September 21-23, 2005

Edited by

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*Reunión de Trabajo en Procesamiento de la Información y Control
Septiembre de 2005. Río Cuarto, Argentina*

XI RPIC -Workshop on Control and Information Processing
(Reunión de Trabajo en Procesamiento de la Información y Control)

Río Cuarto, Argentina, September 21-23, 2005

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GUEST EDITORIAL

It is a pleasure and an honor for us to present this Special Issue of LAAR, featured by the best papers originally presented in the XI Workshop on Control and Information Processing (RPIC). The RPICs have been held every two years since 1985. The XI RPIC took place on September 21-23, 2005 at the National University of Río Cuarto (UNRC, Universidad Nacional de Río Cuarto), Argentina, and was organized by the members of the Applied Electronic Group (GEA).

Some figures follow to present the relevance of the XI RPIC. The number of attendants to the meeting was 383, 124 of which (32.3%) were undergraduate students. A total of 246 papers were submitted, 205 (83.3%) as regular papers and 41 (16.7%) as student papers. After the review process by peers, 214 papers (87 %) were accepted, of which 177 (82.7%) were regular while 37 (17.3%) were student papers. Finally, 182 papers were presented by their authors (73.9% of the total submitted papers).

All the papers were presented in 50 oral sessions, distributed along the three days the meeting lasted, grouped into the following 18 different topics: applied mathematics for control and information processing, artificial intelligence, bioengineering, control systems, communication, electric machines and drives, electric power systems, energy conversion, education on control and information processing, electronics, image processing, industrial processes, parameter estimation, power electronics, robotics, signal processing, system identification, and system theory.

The event included a round-table plenary session entitled “Graduate and undergraduate studies in engineering, research and development in South American universities”; Prof. Andrés Guesalaga, from the Pontifical Catholic University of Santiago, Chile; Prof. Sandoval Carneiro Jr., from the Federal University of Rio de Janeiro, Brazil; and Prof. Osvaldo Agamennoni, from the National University of South, Argentina, participated as panelists. In addition, the following plenary lectures were also given: “From soccer players to robots that detect or manipulate dangerous materials”, by Juan M. Santos, from the University of Buenos Aires; “Super-maneuverable aerial micro-vehicles inspired on biology.” by Sergio Preidikman, from the National University of Río Cuarto; and “Perspectives for the development of electronics small-business in Argentina”, by Jorge A. Berti, President of Consulfem S.A.

The XI RPIC Organizing Committee wants to thank the following institutions that financed the XI RPIC: FONCyT-ANPCyT; CONICET; AADECA; IEEE; and UNRC.

A group of 46 papers were voluntarily submitted by their authors to be presented in the XI RPIC and to be considered for publication in this LAAR Special Issue. Some of these papers passed a first selection process by the RPIC reviewers, who recommended the best ones to be submitted to the standard review process of the journal. Finally, this Special Edition of LAAR features 10 papers that have been recommended for publication. The Organizing Committee wishes to thank the referees for the careful and expert assistance in the revision procedure and to Jorge Moiola, former Editor-in-Chief, for his collaboration in the preparation of this issue.

Cristian H. De Angelo, José L. Figueroa, Guillermo O. García and Jorge A. Solsona