Dear Colleagues

The following is the Last CFP for CIARP2012

**CIARP2012 Call for Papers**

The 17th Iberoamerican Congress on Pattern Recognition CIARP 2012 will be held in Buenos Aires, Argentina, September 3 – 6, 2012, and is organized by the Argentine Society for Pattern Recognition (SARP) and the University of Buenos Aires.

This conference is a forum for the presentation of technological advances and research results in the fields of theoretical and applied pattern recognition, for the exchange of scientific results and experiences, and for the growth of the co-operation between research groups.

This conference is supported by the following scientific associations: International Association for Pattern Recognition (IAPR), Cuban Association for Pattern Recognition (ACPR), Mexican Association for Computer Vision, Neural Computing and Robotics (MACVNR), Portuguese Association for Pattern Recognition (APRP), Spanish Association for Pattern Recognition and Image Analysis (AERFAI), Special Interest Group on Pattern Recognition of the Brazilian Computer Society (SIGPR-SBC), Chilean Association for Pattern Recognition (AChiRP) and Argentine Association for Pattern Recognition (SARP).

As in previous years, at the CIARP Conference about 200 contributions will be presented. The program committee will evaluate papers for technical quality, merit, novelty and clarity of presentation.

**Topics of interest include, but are not limited to:**

- Applications of Pattern Recognition
- Artificial Intelligence Techniques in PR
- Bioinformatics
- Clustering
- Cognitive Humanoid Vision
- Computer Vision
- Data Mining
- DB, Knowledge Bases and Linguistic Tools
- Discrete Geometry
- Document Processing and Recognition
- Fuzzy and Hybrid Techniques in PR
- Image Coding, Processing and Analysis
- Kernel Machines
- Logical Combinatorial PR
- Mathematical Morphology
- Mathematical Theory of PR
- Medical Imaging
- Natural Language Processing and PR
- Neural Networks for PR
- Parallel and Distributed PR
- Pattern Recognition Principles
- Robotics & Remote Sensing Applications of PR
- Shape and Texture Analysis
- Signal Processing and Analysis
- Special Hardware Architectures
- Statistical Pattern Recognition
- Syntactical and Structural Pattern Recognition
- Video analysis
- Voice and Speech Recognition
• **Paper Submission:**

Prospective authors are invited to contribute to the conference by electronically submitting a full paper in English of no more than 8 pages including illustrations, results and references. All submissions will be peer reviewed for originality, technical content and relevance to the theme of this conference by three members of the Program Committee. The final acceptance will be based upon double blind peer review of the full length paper.

They will be requested to submit their papers electronically through the conference website before April 1st, 2012. The accepted papers will be included in the proceedings of the CIARP2012, which will be published by Springer in the Lecture Notes in Computer Science - LNCS series.

The papers should be prepared following the instructions from Springer LNCS series available at:

http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0

The papers should be submitted for double-blind review. There must be no identification of the authors in the submitted paper (i.e. No names, affiliations, etc).

At least one of the authors must be registered at the Conference, for the paper to be published.

• **Journal of Pattern Recognition Letters**

Best papers presented at CIARP 2012 within the research area Robust Recognition Methods for Multimodal Interaction will be selected. Revised and extended versions of these papers will be considered for the edition of a Special Issue in the Journal of Pattern Recognition Letters.

This special issue will focus on advances of pattern recognition algorithms related to multimodal systems. Of particular interest in the special issue are real-time applications of multimodal interfaces to healthcare, assistive technologies, robotics, entertainment and context-aware systems as well as applications to support the well-being of the general population and individuals with physical impairments.

Topics considered within this special issue include, but are not limited to, robust algorithms to support the following:

- Gaze-based multimodal interfaces
- Voice-based multimodal interfaces
- Hand/face gesture-based interfaces
- Haptic-based multimodal interfaces
- Brain-computer interfaces
- Neuromuscular interfaces
- Human Robot multimodal systems
- Multimodal assistive technologies
- Applications of multimodal interfaces
- Robustness and flexibility of perceptual systems
- Probabilistic and multi-hypothesis interpreter frameworks
- Cognitive architectures for multimodal interfaces

• **Special Issue in the Journal of Real-Time Image Processing**

Among the accepted papers, a set of the best papers within the area of real-time image processing/computer vision will be selected. Revised and extended versions of these papers will be considered for the edition of a Special Issue in the Journal of Real-Time Image Processing. [http://www.springer.com/computer/image+processing/journal/11554](http://www.springer.com/computer/image+processing/journal/11554)

• **IPOL Publication of Algorithms!!**
The submitted papers can be complemented by a submission to the online journal IPOL (Image Processing on Line, ISSN: 2105-1232). The evaluations of the submissions to CIARP 2012 and to IPOL will be independent, but coordinated. Only the algorithms corresponding to accepted papers at CIARP 2012 will be considered for publication in IPOL.

Only the algorithms corresponding to accepted papers at CIARP 2012 will be considered for publication in IPOL. To submit to Image Processing on Line, authors are requested to furnish a very explicit and complete algorithm description in a .pdf document, and to prepare an autonomous C or C++ code implementing this algorithm.

Authors must also conceive how their algorithm will be demonstrated on line, which may imply some restrictions on the input data and on the execution time. The referees for IPOL are invited to check the full adequacy of the code with its description, to achieve standards of reproducible research.

For more details please go to: http://www.ipol.im/, to see some of the published papers.

See also the IPOL C software guidelines. http://tools.ipol.im/wiki/ref/software_guidelines/

- **Important Dates:**
  - Extended Deadline for paper submission April 1st, 2012
  - Notification of paper acceptance May 18th 2012
  - Camera ready papers and author registration June 15th 2012

- **Conference Location:**
  - CIARP2012 will be held in Buenos Aires, Argentina

CIARP2012 will offer several tutorials courses in selected pattern recognition topics. The tutorials are addressed to all CIARP participants who are interested in these topics. http://www.ciarp.org/xvii/index.php/keynotes

- **Tutorials:**
  - "Human Activity Recognition with 2D and 3D Cameras", Zicheng Liu, Senior Researcher at Microsoft Research
    http://research.microsoft.com/en-us/um/people/zliu/
  - "Multi-class Support Vector Machines Revisited", Christian Igel, Professor, University of Copenhagen
    http://image.diku.dk/igel/

- **Keynotes:**
  - "Pattern Recognition in Transportation", Marco Bressan, Chief Innovation Officer, Transportation – Laboratory Manager, Xerox Innovation Group
    http://www.xrce.xerox.com/About-XRCE/Welcome/XRCE-management-team/Marco-Bressan
  - "Optimal Anti-Bayesian Statistical Pattern Recognition", John Oommen, Chancellor’s Professor, School of Computer Science, Carleton University, Ottawa (Canada)
    http://www.scs.carleton.ca/~oommen
  - "Robot, pass me the scissors! How robots can assist us in the Operating Room", Juan Pablo Wachs, Assistant Professor, Purdue University. Director of the Intelligent Systems and Assistive Technologies Lab (ISAT)
    http://web.ics.purdue.edu/~jpwachs/

- **URL:** http://www.ciarp.org
• **Contact:** ciarp2012@dc.uba.ar

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