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# Pattern Recognition


14th Mexican Conference, MCPR 2022  
Ciudad Juárez, Mexico, June 22–25, 2022  
Proceedings


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# Preface

The Mexican Conference on Pattern Recognition 2022 (MCPR 2022) was the 14th event in the series organized by the Institute of Engineering and Technology of the Universidad Autónoma de Ciudad Juárez (UACJ) and the Computer Science Department of the Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE) of Mexico. The conference was auspiced by the Mexican Association for Computer Vision, Neurocomputing, and Robotics (MACVNR), a member society of the International Association for Pattern Recognition (IAPR). MCPR 2022 was due to be held in Ciudad Juárez, Chihuahua, Mexico, during June 22–25, 2022, but was instead held virtually due to the COVID-19 pandemic.

MCPR aims to provide a forum for exchanging scientific results, practice, and new knowledge, promoting collaboration among research groups in pattern recognition and related areas in Mexico and worldwide.

In this edition, as in previous years, MCPR 2022 attracted not only Mexican researchers but also worldwide participation. We received 66 manuscripts from authors in 13 countries including Chile, Colombia, Cuba, Ecuador, Germany, Mexico, Moldova, the Netherlands, Pakistan, South Africa, Spain, the USA, and Vietnam. Each paper was strictly peer reviewed by at least two members of the Program Committee. All the members of the Program Committee are experts in many fields of pattern recognition. As a result of peer review, 34 papers were accepted for presentation at the conference and included in this excellent conference proceedings.

We were very honored to have as invited speakers such internationally recognized researchers as

- Rama Chellappa, Departments of Electrical and Computer Engineering (Whiting School of Engineering) and Biomedical Engineering (School of Medicine), Johns Hopkins University, USA.
- Raúl Rojas, Department of Mathematics and Statistics, University of Nevada, Reno, USA.
- Maria de Marsico, Department of Computer Science, Sapienza University of Rome, Italy.

We would like to thank all the people who devoted so much time and effort to the successful running of MCPR 2022. Particularly, we extend our gratitude to all the authors who contributed to the conference. In addition, we give special thanks to the invited speakers, who shared their keynote addresses on various pattern recognition topics during the conference. We are also very grateful for the efforts and the quality of the reviews of all Program Committee members and additional reviewers. Their work allowed us to maintain the high quality of the contributions to the conference and provided a conference program of a high standard.

Finally, but no less important, our thanks go to the Institute of Engineering and Technology of the Universidad Autónoma de Ciudad Juárez (UACJ) for providing key support to this event.

We are sure that MCPR 2022 provided a fruitful forum for Mexican pattern recognition researchers and the broader international pattern recognition community.

June 2022

Osslan Osiris Vergara-Villegas  
Vianey Guadalupe Cruz-Sánchez  
Juan Humberto Sossa-Azuela  
Jesús Ariel Carrasco-Ochoa  
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MCPR 2022 was sponsored by the Institute of Engineering and Technology of the Universidad Autónoma de Ciudad Juárez (UACJ) and the Computer Science Department of the Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE).

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