

Denis D. Mauá and Murilo Naldi, Editors

ENIAC 2018

**Encontro Nacional de Inteligência Artificial e
Computacional**

**National Meeting on Artificial and Computa-
tional Intelligence**

Event co-located with BRACIS 2018

São Paulo, Brazil, October 22–25, 2018

Proceedings

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Preface

The National Meeting on Artificial and Computational Intelligence (ENIAC) is one of the main national forums for researchers, practitioners, educators, and students to present and discuss innovations, trends, experiences, and developments in the field of Artificial and Computational Intelligence. In particular, ENIAC is the ideal forum for undergraduate and graduate students to get their first experience in a large scientific conference.

The 15th edition of the event was held in São Paulo, Brazil, in conjunction with the 7th Brazilian Conference on Intelligent System (BRACIS), the 4th Symposium on Knowledge Discovery, Mining and Learning (KDMile) and the 11th Thesis and Dissertation on Artificial and Computational Intelligence Contest (CTDIAC).

Submissions were limited to 12 pages following SBC article style, written either in English or Portuguese. Following up on previous years, the event had main track, and an special track for papers whose first author is an Undergraduate student (at the time of submission). Papers in the special track underwent the same reviewing process as papers in the main track, but ran separately for the Best Undergraduate Paper Award. Papers in the main track ran for the Best Paper Award.

This year's edition had 131 submissions (99 in the main track and 32 in the special track), from which we accepted 81 (57 in the main track and 24 in the special track). ENIAC 2018 adopted a double-blind reviewing policy: Every submission was reviewed by at least two separate and anonymous reviewers, who were not aware of the authors' identities.

The following papers were runners-up of the *Best Paper Award*, ordered according to the selection of a judging committee:

1. Plan Existence Verification as Symbolic Model Checking, Macilio da Silva Ferreira, Maria Viviane Menezes, Leliane Nunes de Barros
2. Automatic Generation of a Type-2 Fuzzy System for Time Series Forecast based on Genetic Programming, Marco Antônio da Cunha Ferreira, Ricardo Tanscheit, Marley Vellasco
3. Detecting the Presence of Meteors in Images: New collection and results, Renato Moraes Silva, Ana Carolina Lorena, Tiago A. Almeida
4. Eye Localization Using Convolutional Neural Networks and Image Gradients, Werton P. de Araujo, Thelmo P. de Araujo, Gustavo A. L. de Campos

The following papers were runners-up of the *Best Undergraduate Paper Award*, ordered by selection of the judging committee:

1. Facial Landmarks Detection on Faulty Datasets with Regression Trees and Principal Component Analysis Parametrization, Abner S. Nascimento, Danilo A. Oliveira, Maria Raquel L. de Couto, Iális C. de Paula Júnior
2. A Multi-Gaussian Fuzzy Membership Function to the Algorithm Fuzzy Grow-Cut Applied to Segment Lesions in Mammography Image, Filipe R. Cordeiro, Beatriz Albuquerque, Valmir Macario
3. Convolutional Neural Networks for Leaf Disease Classification, Raí G. Carvalho, Leticia T. M. Zoby
4. Sentiment Analysis of Twitter Posts About the 2017 Academy Awards, Igor T. Correa, Daniel D. Abdala, Rodrigo S. Miani, Elaine R. Faria

We are enormously indebted to all program committee members, for the Best Paper Judging Committee Members and for the Session Chairs.

October 2018,
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