

RECPAD 2017

23th Portuguese Conference on Pattern Recognition

Portuguese Military Academy – campus Amadora (Lisbon), October 27th, 2017

www.academiamilitar.pt/recpad2017

Full Program

09:00 Registration

10:00 Welcome session

Auditório General Morais Sarmento

10:15 Poster session 1

- 3 *Jessica Sanson, Pedro Tome and Petia Georgieva. Enabling MIMO Beamforming through compressed CSI feedback based on Principal Component Analysis*
- 6 *José Silva, Bernardete Ribeiro, Andrew Sung and César Teixeira. Importance of the critical sampling size on data analytics*
- 14 *João Santos, Catarina Silva and Mário Antunes. Generating Benchmark Datasets for Intrusion Detection Systems*
- 15 *António Ramires, Matthew Davies and Rui Penha. User Specific Adaptation in Automatic Transcription of Vocalised Percussion*
- 16 *António Ramires, Diogo Cocharro and Matthew Davies. An audio-only method for advertisement detection in broadcast television content*
- 21 *Filipe Assunção, Nuno Lourenço, Bernardete Ribeiro and Penousal Machado. Evolutionary Machine Learning: An Essay on Benchmarking*
- 22 *Filipe Assunção, Nuno Lourenço, Bernardete Ribeiro and Penousal Machado. Evolutionary Machine Learning: An Essay on Experimental Design*
- 27 *André Pilastrri, Daniel Nogueira and Danilo Jodas. Data mining and social network analysis for personalized paper retriever: A Case study in ArXiv*
- 30 *Nelson Oliveira, Joana Costa, Catarina Silva and Bernardete Ribeiro. On the importance of Users's Features in Retweeting*
- 34 *Nuno Conde, Paulo Afonso and Paulo Salgado. Multi-model for wind speed forecasting*
- 35 *Hugo Fragata, Marcos Pires, Petya Mihaylova and Petia Georgieva. Prediction of client subscription to a term deposit*

11:00 Coffee break

11:30 Poster session 2

- 1 *Sílvia Bessa, Jaime S. Cardoso and Hélder P. Oliveira. Registration of Breast Surfaces Before and After Conservative Treatment of Cancer*
- 2 *Jorge Miguel Silva, Augusto Silva and Pedro Vilela. Enhanced Cerebral Vascular Segmentation with Harmonic Constraints*
- 5 *Carolina Gouveia, Daniel Malafaia, José Vieira, Pedro Pinho, Ana Tomé and Pedro Magalhães. Bio-Radar Model Validation using Chest-Wall Simulator*
- 8 *Malik Saad Sultan and Miguel Coimbra. Tracking Large Anterior Mitral Leaflet Displacements by Incorporating Optical Flow in an Active Contours Framework*
- 9 *Francesco Renna, Jorge Oliveira and Miguel Coimbra. Information discriminant analysis for improved feature extraction in heart sound segmentation*
- 10 *João F. Teixeira and Hélder P. Oliveira. Segmentation of Spacial Aliasing Artefact on MRI*
- 11 *Jorge Oliveira, Francesco Renna and Miguel Coimbra. Using semi-hidden Markov models and Gaussian mixtures for heart sound segmentation*
- 18 *Hooshiar Zolfagharnasab, João P. Monteiro, João F. Teixeira, Filipa Borlinhas and Hélder P. Oliveira. Automatic Segmentation of Breast Complete Contour Using Multi-Modal Data*
- 23 *João Santos, Kelwin Fernandes and Jaime Cardoso. Towards an Automated Detection and Quantification of Mice Arthritis*
- 26 *Ricardo Araújo and Hélder P. Oliveira. A method for the segmentation of the anterior fascia of the abdominal muscle*
- 32 *Ana Catarina Perre, Luís A. Alexandre and Luís M. Freire. The Influence of Image Normalization in Mammographic Classification with CNNs*
- 37 *João Carvalho, Susana Brás and Armando Pinho. The Impact of Noise Removal on a Compression-based ECG Biometric Identification System*

12:30 Lunch

14:00 Invited Talk

Auditório General Morais Sarmento

Speaker: Paul Scheunders, Vision Lab, University of Antwerp, Belgium
Title: Machine learning for remote sensing image analysis

15:15 Poster session 3

- 7 *Francisco Antunes, Bernardete Ribeiro and Francisco Pereira. Active Learning GP-based Metamodels for Input Exploration in Transportation Simulation Models*
- 12 *Vasco Lopes and Luís Alexandre. Improving Grasping Performance by Segmentation of Large Planar Surfaces*
- 13 *Borgine Gurué, Ricardo Cruz, Kelwin Fernandes and Jaime S. Cardoso. Land Cover Classification Competition*
- 17 *Ricardo Veiga, Roman Bajireanu, João Pereira, João Sardo, Pedro Cardoso and João Rodrigues. Indoor Environment and Human Shape Detection for Augmented Reality: an initial study*
- 19 *Pedro M. Ferreira, Jaime S. Cardoso and Ana Rebelo. The Potential of Multimodal Learning for Sign Language Recognition*
- 20 *Aline Peres, João Pinto and Susana Vieira. Automatic Recognition of Students Numbers in Examination Classroom Maps*
- 25 *Tanmay Verlekar, Luís Soares and Paulo Correia. Shadow Type Identification for Gait Recognition using Shadows*
- 28 *Dmytro Solovey, João Pinto, Alexandra Moutinho and Pedro Gamboa. Classification of High Resolution Aerial Images Using Deep Learning*
- 29 *Marina Castro, Cristiana Carpinteiro, Margarida Fernandes, Joana Rodrigues, Ana Costa, Diogo Goncalves and João Monteiro. Segmentation of citizen ID cards for identity verification in access control to public events*
- 31 *Ricardo Ribeiro and António Neves. Segmentation based approaches for face detection on thermal images*
- 33 *David Fernandes, Paulo Correia and Henrique Oliveira. On the Suitability of Light Field Imaging for Road Surface Crack Detection*
- 36 *Daniel Lopes and António Neves. Pre-processing approaches to improve Facial Verification in Unconstrained Environments*

16:15 Coffee Break

16:45 Awards and Closing session

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Organization:



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