

Contents

Motion

Retrospective Motion Correction of Magnitude-Input MR Images	3
<i>Alexander Loktyushin, Christian Schuler, Klaus Scheffler, and Bernhard Schölkopf</i>	
Automatic Brain Localization in Fetal MRI Using Superpixel Graphs	13
<i>Amir Alansary, Matthew Lee, Kevin Keraudren, Bernhard Kainz, Christina Malamateniou, Mary Rutherford, Joseph V. Hajnal, Ben Glocker, and Daniel Rueckert</i>	

Brain

Learning Deep Temporal Representations for fMRI Brain Decoding	25
<i>Orhan Firat, Emre Aksan, Ilke Oztekin, and Fatos T. Yarman Vural</i>	
Modelling Non-stationary and Non-separable Spatio-Temporal Changes in Neurodegeneration via Gaussian Process Convolution	35
<i>Marco Lorenzi, Gabriel Ziegler, Daniel C. Alexander, and Sebastien Ourselin</i>	
Improving MRI Brain Image Classification with Anatomical Regional Kernels	45
<i>Jonathan Young, Alex Mendelson, M. Jorge Cardoso, Marc Modat, John Ashburner, and Sebastien Ourselin</i>	

Computer Aided Diagnosis

A Graph Based Classification Method for Multiple Sclerosis Clinical Forms Using Support Vector Machine	57
<i>Claudio Stamile, Gabriel Kocevar, Salem Hannoun, Françoise Durand-Dubief, and Dominique Sappey-Marinier</i>	
Classification of Alzheimer's Disease Using Discriminant Manifolds of Hippocampus Shapes	65
<i>Mahsa Shakeri, Hervé Lombaert, and Samuel Kadoury</i>	
Transfer Learning for Prostate Cancer Mapping Based on Multicentric MR Imaging Databases	74
<i>Rahaf Aljundi, Jérôme Lehair, Fabrice Prost-Boucle, Olivier Rouvière, and Carole Lartizien</i>	

Segmentation

Feature-Space Transformation Improves Supervised Segmentation Across Scanners	85
<i>Annegreet van Opbroek, Hakim C. Achterberg, and Marleen de Bruijne</i>	
Discriminative Dimensionality Reduction for Patch-Based Label Fusion.	94
<i>Gerard Sanroma, Oualid M. Benkarim, Gemma Piella, Guorong Wu, Xiaofeng Zhu, Dinggang Shen, and Miguel Ángel González Ballester</i>	
Author Index	105

<http://www.springer.com/978-3-319-27928-2>

Machine Learning Meets Medical Imaging

First International Workshop, MLMMI 2015, Held in

Conjunction with ICML 2015, Lille, France, July 11, 2015,

Revised Selected Papers

Bhatia, K.K.; Lombaert, H. (Eds.)

2015, X, 105 p. 31 illus. in color., Softcover

ISBN: 978-3-319-27928-2