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Review for ISI journals

1. Computer Methods and Programs in Biomedicine, Elsevier
2. Journal of IET Image processing
3. International Journal of Computer Mathematics
4. Optical Engineering

Published ISI Journal Papers

1. M. A Balafar, Spatial based Expectation Maximizing (EM) and its Application for MRI Brain Image Segmentation, Diagnostic Pathology, 2011, Accepted
2. M. A. Balafar. New spatial based MRI image de-noising algorithm. 2011. Artif. Intell. Rev., 10.1007/s10462-011-9268-0
3. Mohammad A. Balafar, Abdul-Rahman Ramli, Syamsiah Mashohor. Medical Brain magnetic resonance image segmentation using novel improvement for expectation maximizing. Neurosciences. 2011; Vol. 16 (3): 242-247
4. M. A. Balafar et. al. : A new method for MR grayscale inhomogeneity correction. Artif. Intell. Rev. 34(23): 195-204 (2010)
5. M. A. Balafar et. al. : Review of brain MRI image segmentation methods. Artif. Intell. Rev. 33(3): 261-274 (2010)
6. M. A. Balafar et. al. : Medical Image Segmentation Using Fuzzy C-Mean (FCM) and User Specified Data. Journal of Circuits, Systems, and Computers 19(1): 1-14 (2010)
7. M. A. Balafar et. al. : Improved Fast Fuzzy C-Mean and its Application in Medical Image Segmentation. Journal of Circuits, Systems, and Computers 19(1): 203-214 (2010)

Published Lecture Notes (Book chapters):

1. M. A. Balafar et. al. : Medical Image Segmentation Using Anisotropic Filter, User Interaction and Fuzzy C-Mean (FCM). CCS, Springer, 2008: 169-176
2. M. A. Balafar et. al. : Medical Image Segmentation Using Fuzzy C-Mean (FCM), Learning Vector Quantization (LVQ) and User Interaction, CCS, Springer, 2008: 177-184

3. M. A. Balafar et. al. : Edge-preserving Clustering Algorithms and Their Application for MRI Image Segmentation. Lecture Notes in Engineering and Computer Science 2010. 2180(1), 103-105

Published Conference proceeding papers:

1. M. A. Balafar et. al. : Medical image segmentation using fuzzy c-mean (fcm), bayesian method and user interaction. ICWAPR 2008
2. M. A. Balafar et. al.: Mri segmentation of medical images using fcm with initialized class centers via genetic algorithm. ITSIm 2008
3. M. A. Balafar et. al. : Medical image segmentation using fuzzy c-mean (fcm) and dominant grey levels of image. VIE 2008
4. M. A. Balafar et. al. : Medical ImageNew multi-scale medical image segmentation based on fuzzy c mean (fcm). CITISIA 2008

Technical Skills

1. . Neural networks
2. . Genetic algorithms
3. . Ant colonies
4. . knowledge in snake and active control for medical image processing
5. . knowledge in Fuzzy based methods for medical image processing
6. . knowledge in statistic methods for medical image processing
7. . knowledge in genetic algorithms for image processing
8. . knowledge in distributed systems in its application in medical image systems
9. . knowledge in medical image retrieval
10. . knowledge in medical image segmentation

Educational Background

1. PhD. IT-UPM-Malaysia-2007-2011, PhD thesis: SEGMENTATION OF MRI BRAIN IMAGES USING STATISTICAL APPROACHES
2. MSc., Software Engineering – Tarbiat modares university of iran - Tehran – IRAN - 1998-2001, MSc thesis: Content based image retrieval with combination of shape, color and texture features
3. B.Sc., Hardware Engineering – Isfahan University – Isfahan – IRAN - 1992-1996

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