
Contents

Information Theoretic Feature Selection and Projection <i>Deniz Erdogmus, Umut Ozertem, and Tian Lan</i>	1
Recognition of Tones in Yorùbá Speech: Experiments With Artificial Neural Networks <i>Ọdétúnjí Àjàdí ỌDélọBí</i>	23
Emotion Recognition from Speech Using Multi-Classfier Systems and RBF-Ensembles <i>Stefan Scherer, Friedhelm Schwenker, and Günther Palm</i>	49
Modeling Supra-Segmental Features of Syllables Using Neural Networks <i>K. Sreenivasa Rao</i>	71
Objective Speech Quality Evaluation Using an Adaptive Neuro-Fuzzy Network <i>Guo Chen and Vijay Parsa</i>	97
A Novel Approach to Language Identification Using Modified Polynomial Networks <i>Hemant A. Patil and T.K. Basu</i>	117
Speech/Non-Speech Classification in Hearing Aids Driven by Tailored Neural Networks <i>Enrique Alexandre, Lucas Cuadra, Manuel Rosa-Zurera, and Francisco López-Ferrerias</i>	145
Audio Signal Processing <i>Preeti Rao</i>	169
Democratic Liquid State Machines for Music Recognition <i>Leo Pape, Jornt de Gruijl, and Marco Wiering</i>	191

Color Transfer and its Applications <i>Arvind Nayak, Subhasis Chaudhuri, and Shilpa Inamdar</i>	217
A Neural Approach to Unsupervised Change Detection of Remote-Sensing Images <i>Susmita Ghosh, Swarnajyoti Patra, and Ashish Ghosh</i>	243
Fisher Linear Discriminant Analysis and Connectionist Model for Efficient Image Recognition <i>Manjunath Aradhya V N, Hemantha Kumar G, and Noushath S</i>	269
Detection and Recognition of Human Faces and Facial Features <i>Miloš Oravec, Gregor Rozinaj, and Marian Beszédes</i>	283
Classification of Satellite Images with Regularized AdaBoosting of RBF Neural Networks <i>Gustavo Camps-Valls and Antonio Rodrigo-González</i>	307
Convolutional Neural Networks for Image Processing with Applications in Mobile Robotics <i>Matthew Browne, Saeed Shiry Ghidary, and Norbert Michael Mayer</i>	327
SVM Based Adaptive Biometric Image Enhancement Using Quality Assessment <i>Mayank Vatsa, Richa Singh, and Afzel Noore</i>	351
Segmentation and Classification of Leukocytes Using Neural Networks: A Generalization Direction <i>Pedro Rodrigues, Manuel Ferreira, and João Monteiro</i>	373
A Closed Loop Neural Scheme to Control Knee Flex-Extension Induced by Functional Electrical Stimulation: Simulation Study and Experimental Test on a Paraplegic Subject <i>Simona Ferrante, Alessandra Pedrocchi, and Giancarlo Ferrigno</i>	397