Contents

1 Augmented-SVM for Gradient Observations with Application to Learning Multiple-Attractor Dynamics ................................................................. 1
Ashwini Shukla and Aude Billard

2 Multi-Class Support Vector Machine ............................................. 23
Zhe Wang and Xiangyang Xue

3 Novel Inductive and Transductive Transfer Learning Approaches Based on Support Vector Learning ................................................. 49
Zhaohong Deng and Shitong Wang

4 Security Evaluation of Support Vector Machines in Adversarial Environments ................................................................. 105
Battista Biggio, Igino Corona, Blaine Nelson, Benjamin I.P. Rubinstein, Davide Maiorca, Giorgio Fumera, Giorgio Giacinto, and Fabio Roli

5 Application of SVMs to the Bag-of-Features Model: A Kernel Perspective ................................................................. 155
Lei Wang, Lingqiao Liu, Luping Zhou, and Kap Luk Chan

6 Support Vector Machines for Neuroimage Analysis: Interpretation from Discrimination ................................................................. 191
Luping Zhou, Lei Wang, Lingqiao Liu, Philip Ogunbona, and Dinggang Shen

7 Kernel Machines for Imbalanced Data Problem and the Use in Biomedical Applications ................................................................. 221
Peng Li, Kap Luk Chan, Sheng Fu, and Shankar M. Krishnan

8 Soft Biometrics from Face Images Using Support Vector Machines ... 269
Guodong Guo
Support Vector Machines Applications
Ma, Y.; Guo, G. (Eds.)
2014, VII, 302 p. 87 illus., 56 illus. in color., Hardcover
ISBN: 978-3-319-02299-4