

Contents

Multilevel Analysis of Attributed Graphs for Explicit Graph Embedding in Vector Spaces	1
Muhammad Muzzamil Luqman, Jean-Yves Ramel, and Josep Lladós	
Feature Grouping and Selection Over an Undirected Graph	27
Sen Yang, Lei Yuan, Ying-Cheng Lai, Xiaotong Shen, Peter Wonka, and Jieping Ye	
Median Graph Computation by Means of Graph Embedding into Vector Spaces	45
Miquel Ferrer, Itziar Bardají, Ernest Valveny, Dimosthenis Karatzas, and Horst Bunke	
Patch Alignment for Graph Embedding	73
Yong Luo, Dacheng Tao, and Chao Xu	
Improving Classifications Through Graph Embeddings	119
Anirban Chatterjee, Sanjukta Bhowmick, and Padma Raghavan	
Learning with ℓ^1-Graph for High Dimensional Data Analysis	139
Jianchao Yang, Bin Cheng, Shuicheng Yan, Yun Fu, and Thomas Huang	
Graph-Embedding Discriminant Analysis on Riemannian Manifolds for Visual Recognition	157
Sareh Shirazi, Azadeh Alavi, Mehrtash T. Harandi, and Brian C. Lovell	
A Flexible and Effective Linearization Method for Subspace Learning ...	177
Feiping Nie, Dong Xu, Ivor W. Tsang, and Changshui Zhang	

A Multi-graph Spectral Framework for Mining Multi-source Anomalies 205
Jing Gao, Nan Du, Wei Fan, Deepak Turaga, Srinivasan Parthasarathy, and Jiawei Han

Graph Embedding for Speaker Recognition 229
Z.N. Karam and W.M. Campbell