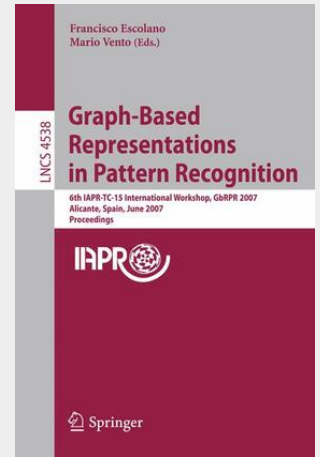Vento / Escolano

Graph-Based Representations in Pattern Recognition

6th IAPR-TC-15 International Workshop, GbRPR 2007, Alicante, Spain, June 11-13, 2007, Proceedings

This book constitutes the refereed proceedings of the 6th IAPR-TC-15 International Workshop on Graph-Based Representations in Pattern Recognition, GbRPR 2007, held in Alicante, Spain in June 2007. It covers matching, distances and measures, graph-based segmentation and image processing, graph-based clustering, graph representations, pyramids, combinatorial maps and homologies, as well as graph clustering, embedding and learning.

GbR (Graph-Based Representations in Pattern Recognition) is a biennial wo- shop organized by the TC15 (http://www.greyc.ensicaen.fr/iapr-tc15/) Tech- cal Committee of the IAPR, aimed at encouraging research works in pattern recognition and image analysis within the graph theory framework. This wo- shop series traditionally provides a forum for presenting and discussing research resultsandapplicationsattheintersectionofpatternrecognition,imageanalysis on one side and graph theory on the other side. Traditionally, the scienti?c content of these workshops covers research on problems such as matching, segmentation, object and shape representation, and evenimageprocessing,where using graphsis more thaninteresting approach:all thelaterproblems,andmanymore,maybeattackedfromthegraphpointaview. Sometimes,coarse-to-?nerepresentationssuchasgraphpyramidsemergetodeal with some of the latter problems. Topological notions are also interesting in the case of object representation. More recently, translation into the graph (or to the string) domain of data-mining procedures usually designed for vectors (e.g., clustering)andtheembeddingofgraphsinsubspaceshaveopenednewintriguing perspectives. Related to the latter problem, the design of proper measures or distances between graphs, trees, or between the nodes of graphs or trees, is an interesting challenge (e.g., kernel design). These elements are contemplated in the current proceedings. Inaddition,theavenueofnewstructural/graphicalmodelsandstructuralc- teria (e.g., belief-propagation, speci?c graphs under the constellation approach, graph-cuts)hasimpactedthecurrenteditionofGbRandsomepapers,especially those related to segmentation, are also included in these proceedings.

53,49 €
49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540729020
Medium: Buch
ISBN: 978-3-540-72902-0
Verlag: Springer Berlin Heidelberg
Erscheinungstermin: 31.05.2007
Sprache(n): Englisch
Auflage: 2007
Serie: Image Processing, Computer Vision, Pattern Recognition, and Graphics
Produktform: Kartoniert
Gewicht: 651 g
Seiten: 416
Format (B x H): 155 x 235 mm