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Titolo	Graphics recognition : recent advances and new opportunities : 7th international workshop, GREC 2007, Curitiba, Brazil, September 20-21, 2007 : selected papers // Wenyin Liu, Josep Lladós, Jean-Marc Ogier (editors.)
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Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (IX, 336 p.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 5046
Disciplina	006.6
Soggetti	Image analysis Computer graphics Pattern recognition systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Technical Documents, Maps and Diagrams Understanding -- Automatically Making Origami Diagrams -- An Adaptative Recognition System Using a Table Description Language for Hierarchical Table Structures in Archival Documents -- Converting ECG and Other Paper Legated Biomedical Maps into Digital Signals -- Symbol and Shape Description and Recognition (1) -- Hand Drawn Symbol Recognition by Blurred Shape Model Descriptor and a Multiclass Classifier -- On the Combination of Ridgelets Descriptors for Symbol Recognition -- Symbol and Shape Description and Recognition (2) -- Old Handwritten Musical Symbol Classification by a Dynamic Time Warping Based Method -- On the Joint Use of a Structural Signature and a Galois Lattice Classifier for Symbol Recognition -- A Discriminative Representation for Symbolic Image Similarity Evaluation -- ARG Based on Arcs and Segments to Improve the Symbol Recognition by Genetic Algorithm -- Information Retrieval, Indexing and Spotting -- Spotting Symbols in Line Drawing Images Using Graph Representations -- A Region-Based Hashing Approach for Symbol Spotting in Technical Documents -- A System for Historic Document Image Indexing and

Retrieval Based on XML Database Conforming to MPEG7 Standard -- An Ancient Graphic Documents Indexing Method Based on Spatial Similarity -- A Fast CBIR System of Old Ornamental Letter -- Sketching Interfaces and On-Line Processing -- Developing Domain-Specific Gesture Recognizers for Smart Diagram Environments -- Using Error Recovery Techniques to Improve Sketch Recognition Accuracy -- Representing and Parsing Sketched Symbols Using Adjacency Grammars and a Grid-Directed Parser -- Categorization of Digital Ink Elements Using Spectral Features -- Feature and Primitive Analysis and Segmentation -- A Figure Image Processing System -- A Segmentation Scheme Based on a Multi-graph Representation: Application to Colour Cadastral Maps -- Smoothing a Network of Planar Polygonal Lines Obtained with Vectorization -- Verification of the Document Components from Dual Extraction of MRTD Information -- A System to Segment Text and Symbols from Color Maps -- A Non-symmetrical Method of Image Local-Difference Comparison for Ancient Impressions Dating -- Performance Evaluation and Ground Truthing -- Generating Ground Truthed Dataset of Chart Images: Automatic or Semi-automatic? -- Performance Characterization of Shape Descriptors for Symbol Representation -- Building Synthetic Graphical Documents for Performance Evaluation -- A Study on the Effects of Noise Level, Cleaning Method, and Vectorization Software on the Quality of Vector Data -- GREC 2007 Arc Segmentation Contest: Evaluation of Four Participating Algorithms -- Report on the Third Contest on Symbol Recognition -- Panel Discussion -- Is Graphics Recognition an Unidentified Scientific Object?.

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Sommario/riassunto

This book constitutes the thoroughly refereed post-proceedings of the 7th International Workshop on Graphics Recognition, GREC 2007, held in Curitiba, Brazil in September 2007. The 30 revised full papers presented together with a panel discussion report were carefully selected and improved during two rounds of reviewing and revision. The papers are organized in topical sections on technical documents, maps and diagrams understanding; symbol and shape description and recognition; information retrieval, indexing and spotting; sketching interfaces and on-line processing; feature and primitive analysis and segmentation; performance evaluation and ground truthing.

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