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Т	<b>Fitolo</b>	Graphics Recognition. Methods and Applications [[electronic resource] ] : First International Workshop, University Park, PA, USA, August (10- 11), 1995. Selected Papers / / edited by Rangachar Kasturi, Karl Tombre
F	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1996
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E	Edizione	[1st ed. 1996.]
C	Descrizione fisica	1 online resource (X, 314 p.)
C	Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1072
C	Disciplina	006.3/7
S	Soggetti	Pattern recognition Optical data processing Artificial intelligence Geographical information systems Computational complexity Computer-aided engineering Pattern Recognition Image Processing and Computer Vision Artificial Intelligence Geographical Information Systems/Cartography Complexity Computer-Aided Engineering (CAD, CAE) and Design
L	ingua di pubblicazione_	Inglese
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N	Nota di contenuto	Basic techniques and symbol-level recognition — An overview An alternative approach to the performance evaluation of thinning algorithms for document processing applications Comparison of methods for detecting corner points from digital curves Detection of horizontal lines in noisy run length encoded images: The FAST method Adding geometric constraints to the vectorization of line drawings Quantitative measurement of the performance of raster-to-vector conversion algorithms Form item extraction based on line searching

	Model-based analysis of printed tables Morphological approach for dashed lines detection General diagram-recognition methodologies Automatic learning and recognition of graphical symbols in engineering drawings A hybrid system for locating and recognizing low level graphic items Automatic interpretation of chemical structure diagrams Knowledge-based segmentation for automatic map interpretation Automatic region labeling of the layered map Verification-based approach for automated text and feature extraction from raster-scanned maps Software system design for paper map conversion Object-process based segmentation and recognition of ANSI and ISO standard dimensioning texts A combined high and low level approach to interpreting scanned engineering drawings Functional parts detection in engineering drawings: Looking for the screws Reconstruction of 3D solid model from three orthographic views — Top-down approach A benchmark: Performance evaluation of dashed-line detection algorithms How to win a dashed line detection contest Summary and recommendations.
Sommario/riassunto	This book contains revised refereed papers selected from the presentations at the First International Workshop on Graphics Recognition, held in University Park, PA, USA, in August 1995. The 23 full papers included are divided into sections on low-level processing, vectorization and segmentation of scanned graphics documents; symbol and diagram recognition, map processing, interpretation of engineering drawings. Each section contains both survey articles to assess the state of the art, and research papers presenting novel results. One section is devoted to a contest held to determine the best algorithm for detection of dashed lines in drawings. The final chapter summarizes the conclusions and recommendations of the discussions held during the workshop.