Record Nr. UNINA9910143712103321 Computer-aided intelligent recognition techniques and applications **Titolo** [[electronic resource] /] / edited by Muhammad Sarfraz Pubbl/distr/stampa Chichester, West Sussex, England; ; Hoboken, NJ, : J. Wiley, c2005 **ISBN** 1-280-24281-7 9786610242818 0-470-09416-8 0-470-09415-X Descrizione fisica 1 online resource (519 p.) Altri autori (Persone) SarfrazMuhammad Disciplina 006.3 Soggetti Logic circuits - Computer-aided design Pattern perception Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto COMPUTER-AIDED INTELLIGENT RECOGNITION TECHNIQUES AND APPLICATIONS; Contents; Preface; List of Contributors; 1. On Offline Arabic Character Recognition; 1. Introduction; 2. Structure of the Proposed OCR System; 3. Preprocessing; 4. Segmentation; 4.1 Line Segmentation and Zoning; 4.2 Word Segmentation; 4.3 Segmentation of Words into Individual Characters; 5. Feature Extraction; 6. Recognition Strategy; 6.1 Recognition Using the Syntactic Approach; 6.2 Recognition Using the Neural Network Approach; 7. Experimental Results and Analysis; 7.1 System Training; 7.2 Experimental Set-up 7.3 Results Achieved8. Conclusion; Acknowledgement; References; 2. License Plate Recognition System: Saudi Arabian Case; 1. Introduction; 2. Structure of a Typical LPR System; 3. Image Acquisition; 4. License Plate Extraction; 4.1 Vertical Edge Detection; 4.2 Filtering; 4.3 Vertical Edge Matching; 4.4 Black to White Ratio and Plate Extraction; 5. License

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3.1 Feature Extraction by Geostatistics

## Sommario/riassunto

Intelligent recognition methods have recently proven to be indispensable in a variety of modern industries, including computer vision, robotics, medical imaging, visualization and the media. Furthermore, they play a critical role in the traditional fields such as character recognition, natural language processing and personal identification. This cutting-edge book draws together the latest findings of industry experts and researchers from around the globe. It is a timely guide for all those require comprehensive, state-of-the-art advice on the present status and future potential of intellige