

1. Record Nr.	UNINA9910437772103321
Autore	Su Tonghua
Titolo	Chinese handwriting recognition : an algorithmic perspective / / Tonghua Su
Pubbl/distr/stampa	Berlin ; ; Heidelberg, : Springer-Verlag, 2013
ISBN	1-299-19758-2 3-642-31812-6
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (xi, 124 pages) : illustrations (some color)
Collana	SpringerBriefs in electrical and computer engineering
Disciplina	006.425
Soggetti	Computer vision Optical pattern recognition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 2191-8112."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- HIT-MW Database -- Integrated Segmentation-Recognition Strategy -- Segmentation-free Strategy: Basic Algorithms -- Segmentation-free Strategy: Advanced Algorithms.
Sommario/riassunto	This book provides an algorithmic perspective on the recent development of Chinese handwriting recognition. Two technically sound strategies, the segmentation-free and integrated segmentation-recognition strategy, are investigated and algorithms that have worked well in practice are primarily focused on. Baseline systems are initially presented for these strategies and are subsequently expanded on and incrementally improved. The sophisticated algorithms covered include: 1) string sample expansion algorithms which synthesize string samples from isolated characters or distort realistic string samples; 2) enhanced feature representation algorithms, e.g. enhanced four-plane features and Delta features; 3) novel learning algorithms, such as Perceptron learning with dynamic margin, MPE training and distributed training; and lastly 4) ensemble algorithms, that is, combining the two strategies using both parallel structure and serial structure. All the while, the book moves from basic to advanced algorithms, helping readers quickly embark on the study of Chinese handwriting recognition.