

1. Record Nr.	UNISA996465454603316
Autore	Di Martino Ferdinando
Titolo	Fuzzy Transforms for Image Processing and Data Analysis [[electronic resource]] : Core Concepts, Processes and Applications / / by Ferdinando Di Martino, Salvatore Sessa
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-44613-1
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (220 pages)
Disciplina	511.322
Soggetti	Optical data processing Data mining Computer science—Mathematics Artificial intelligence Image Processing and Computer Vision Data Mining and Knowledge Discovery Math Applications in Computer Science Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Fuzzy Transform Concepts -- 2. Multi-dimensional High Degree Fuzzy Transform -- 3. Fuzzy Transform for Image and Video Compression -- 4. Fuzzy Transform Technique for Image Auto Focus -- 5. Fuzzy Transform for Image Fusion and Edge Detection.
Sommario/riassunto	This book analyzes techniques that use the direct and inverse fuzzy transform for image processing and data analysis. The book is divided into two parts, the first of which describes methods and techniques that use the bi-dimensional fuzzy transform method in image analysis. In turn, the second describes approaches that use the multidimensional fuzzy transform method in data analysis. An F-transform in one variable is defined as an operator which transforms a continuous function f on the real interval $[a,b]$ in an n -dimensional vector by using n -assigned fuzzy sets A_1, \dots, A_n which constitute a fuzzy partition of $[a,b]$. Then, an inverse F-transform is defined in order to convert the n -

dimensional vector output in a continuous function that equals f up to an arbitrary quantity ϵ . We may limit this concept to the finite case by defining the discrete F-transform of a function f in one variable, even if it is not known a priori. A simple extension of this concept to functions in two variables allows it to be used for the coding/decoding and processing of images. Moreover, an extended version with multidimensional functions can be used to address a host of topics in data analysis, including the analysis of large and very large datasets. Over the past decade, many researchers have proposed applications of fuzzy transform techniques for various image processing topics, such as image coding/decoding, image reduction, image segmentation, image watermarking and image fusion; and for such data analysis problems as regression analysis, classification, association rule extraction, time series analysis, forecasting, and spatial data analysis. The robustness, ease of use, and low computational complexity of fuzzy transforms make them a powerful fuzzy approximation tool suitable for many computer science applications. This book presents methods and techniques based on the use of fuzzy transforms in various applications of image processing and data analysis, including image segmentation, image tamper detection, forecasting, and classification, highlighting the benefits they offer compared with traditional methods. Emphasis is placed on applications of fuzzy transforms to innovative problems, such as massive data mining, and image and video security in social networks based on the application of advanced fragile watermarking systems. This book is aimed at researchers, students, computer scientists and IT developers to acquire the knowledge and skills necessary to apply and implement fuzzy transforms-based techniques in image and data analysis applications.

2. Record Nr.	UNINA9910493736403321
Autore	Blennow Anna
Titolo	Meaning of Media : Texts and Materiality in Medieval Scandinavia // Anna Blennow [and seven others]
Pubbl/distr/stampa	Berlin : , : De Gruyter, , 2021
Descrizione fisica	1 online resource (vi, 222 pages)
Disciplina	839.5
Soggetti	Scandinavian literature
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The book highlights aspects of mediality and materiality in the dissemination and distribution of texts in the Scandinavian Middle Ages important for achieving a general understanding of the emerging literate culture. In nine chapters various types of texts represented in different media and in a range of materials are treated. The topics include two chapters on epigraphy, on lead amulets and stone monuments inscribed with runes and Roman letters. In four chapters aspects of the manuscript culture is discussed, the role of authorship and of the dissemination of Christian topics in translations. The appropriation of a Latin book culture in the vernaculars is treated as well as the administrative use of writing in charters. In the two final chapters topics related to the emerging print culture in early post-medieval manuscripts and prints are discussed with a focus on reception. The range of topics will make the book relevant for scholars from all fields of medieval research as well as those interested in mediality and materiality in general.