1. Record Nr. UNINA9910270923803321

Autore	Broughton S. Allen <1951->
Titolo	Discrete fourier analysis and wavelets : applications to signal and image processing / / S. Allen Broughton, Kurt Bryan
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2018 ©2018
ISBN	1-119-25824-3 1-119-25823-5 1-119-47332-2
Edizione	[Second edition.]
Descrizione fisica	1 online resource (443 pages) : illustrations
Disciplina	515.2433
Soggetti	Wavelets (Mathematics) Signal processing - Mathematics Image processing - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Vector spaces, signals, and images -- The discrete fourier transform -- The discrete cosine transform -- Convolution and filtering -- Windowing and localization -- Frames -- Filter banks -- Lifting for filter banks and wavelets -- Wavelets.

2. Record Nr. UNINA9910483399503321

Autore	Tkach Itshak
Titolo	Distributed Heterogeneous Multi Sensor Task Allocation Systems / / by Itshak Tkach, Yael Edan
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-34735-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (xv, 139 pages)
Collana	Automation, Collaboration, & E-Services, , 2193-4738 ; ; 7
Disciplina	006.30285436
Soggetti	Control engineering Electronics Multiagent systems Computational intelligence Control and Systems Theory Electronics and Microelectronics, Instrumentation Multiagent Systems Computational Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Multi-agent task allocation -- Multi-Sensor task allocation systems -- Evaluation methodology -- Single-layer multi-sensor task allocation system -- Extended examples of single-layer multi-sensor systems -- Dual-layer multi-sensor task allocation system -- Extended example of dual-layer multi-sensor task allocation systems -- Fault tolerant multi sensor system with high availability -- Analytical analysis of a simplified scenario of two sensors and two tasks.
Sommario/riassunto	Today’s real-world problems and applications in sensory systems and target detection require efficient, comprehensive and fault-tolerant multi-sensor allocation. This book presents the theory and applications of novel methods developed for such sophisticated systems. It discusses the advances in multi-agent systems and AI along with collaborative control theory and tools. Further, it examines the formulation and development of an allocation framework for

heterogeneous multi-sensor systems for various real-world problems that require sensors with different performances to allocate multiple tasks, with unknown a priori priorities that arrive at unknown locations at unknown time. It demonstrates how to decide which sensor to allocate to which tasks when and where. Lastly, it explains the reliability and availability issues of task allocation systems, and includes methods for their optimization. The presented methods are explained, measured, and evaluated by extensive simulations, and the results of these simulations are presented in this book. This book is an ideal resource for academics, researchers and graduate students as well as engineers and professionals and is relevant for various applications such as sensor network design, multi-agent systems, task allocation, target detection, and team formation.