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Pattern Recognition & Matlab Intro

2010-04-02

this specially priced set includes a copy of theodoridis koutroumbas pattern recognition 4e and theodoridis pikrakis koutroumbas cavouras introduction to pattern recognition a matlab approach the main text provides breadth and depth of coverage of pattern recognition theory and application including modern topics like non linear dimensionality reduction techniques relevance feedback semi supervised learning spectral clustering and combining clustering algorithms together with worked examples exercises and matlab applications it provides the most comprehensive coverage currently available the accompanying manual includes matlab code of the most common methods and algorithms in the book together with a descriptive summary and solved problems and including real life data sets in imaging and audio recognition

Introduction to Pattern Recognition

2010-03-03

introduction to pattern recognition a matlab approach is an accompanying manual to theodoridis koutroumbas pattern recognition it includes matlab code of the most common methods and algorithms in the book together with a descriptive summary and solved examples and including real life data sets in imaging and audio recognition this text is designed for electronic engineering computer science computer engineering biomedical engineering and applied mathematics students taking graduate courses on pattern recognition and machine learning as well as r d engineers and university researchers in image and signal processing analyisis and computer vision matlab code and descriptive summary of the most common methods and algorithms in theodoridis koutroumbas pattern recognition fourth edition solved examples in matlab including real life data sets in imaging and audio recognition available separately or at a special package price with the main text isbn for package 978 0 12 374491 3

Manual for the implementation of neural networks in MATLAB

2005-12-05

bachelor thesis from the year 2005 in the subject information management grade 2 0 neisse university görlitz neisse university 45 entries in the bibliography language english abstract this bachelor thesis presents a manual about the implementation of neural networks in the software environment matlab the thesis can be divided into four parts after an introduction into the thesis the theoretical background of neural networks and matlab is explained in two chapters the third part is the description how to implement networks in a general way and with examples too the manual is created for the master course of computer studies at the university of applied science zittau görlitz due to the fact that this manual is a bachelor thesis just a small theoretical and practical overview about neural networks can be given

Progress in Pattern Recognition, Image Analysis and Applications

2007-11-13

this book constitutes the refereed proceedings of the 12th iberoamerican congress on pattern recognition ciarp 2007 held in valparaiso chile november 13 16 2007 the 97 revised full papers presented together with four keynote articles were carefully reviewed and selected from 200 submissions the papers cover ongoing research and mathematical methods for pattern recognition image analysis and applications in areas such as computer vision robotics industry and health

Computer Manual in MATLAB to accompany Pattern Classification

2004-04-08

computer manual to accompany pattern classification and its associated matlab software is an excellent companion to duda pattern classfication 2nd ed dh s the code contains all algorithms described in duda as well as supporting algorithms for data generation and visualization the manual uses the same terminology as the dh s text and contains step by step worked examples including many of the examples and figures in the textbook the manual is accompanied by software that is available electronically the software contains all algorithms in dh s indexed to the textbook and uses symbols and notation as close as possible to the textbook the code is self annotating so the user can easily navigate understand and modify the code

Renewable Energy for Smart and Sustainable Cities

2018-11-23

this book features cutting edge research presented at the second international conference on artificial intelligence in renewable energetic systems ic aires2018 held on 24 26 november 2018 at the high school of commerce esc koléa in tipaza algeria today the fundamental challenge of integrating renewable energies into the design of smart cities is more relevant than ever while based on the advent of big data and the use of information and communication technologies smart cities must now respond to cross cutting issues involving urban development energy and environmental constraints further these cities must also explore how they can integrate more sustainable energies sustainable energies are a major determinant of smart cities longevity from an environmental and technological standpoint these energies offer an optimal power supply to the electric network while creating significantly less pollution this requires flexibility i e the availability of supply and demand the end goal of any smart city is to improve the quality of life for all citizens both in the city and in the countryside in a way that is sustainable and respectful of the environment this book encourages the reader to engage in the preservation of our environment every moment every day so as to help build a clean and healthy future and to think of the future generations who will one day inherit our planet further it equips those whose work involves energy systems and those engaged in modelling artificial intelligence to combine their expertise for the benefit of the scientific community and humanity as a whole

Essentials of Pattern Recognition

2020-11-19

an accessible undergraduate introduction to the concepts and methods in pattern recognition machine learning and deep learning

Unconventional Hydrocarbon Resources: Prediction and Modeling Using Artificial Intelligence Approaches

2023-08-22

unconventional hydrocarbon resources enables readers to save time and effort in exploring and exploiting shale gas and other unconventional fossil fuels by making use of advanced predictive tools unconventional hydrocarbon resources highlights novel concepts and techniques for the geophysical exploration of shale and other tight hydrocarbon reservoirs focusing on artificial intelligence approaches for modeling and predicting key reservoir properties such as pore pressure water saturation and wellbore stability numerous application examples and case studies present real life data from different unconventional hydrocarbon fields such as the barnett shale usa the williston basin usa and the berkine basin algeria unconventional hydrocarbon resources explores a wide range of reservoir properties including modeling of the geomechanics of shale gas reservoirs petrophysics analysis of shale and tight sand gas reservoirs and prediction of hydraulic fracturing effects fluid flow and permeability sample topics covered in unconventional hydrocarbon resources include calculation of petrophysical parameter curves for non conventional reservoir modeling and characterization comparison of the levenberg marquardt and conjugate gradient learning methods for total organic carbon prediction in the barnett shale gas reservoir use of pore effective compressibility for quantitative evaluation of low resistive pays and identifying sweet spots in shale reservoirs pre drill pore pressure estimation in shale gas reservoirs using seismic genetic inversion using well log data to classify lithofacies of a shale gas reservoir unconventional hydrocarbon resources is a valuable resource for researchers and professionals working on unconventional hydrocarbon exploration and in geoengineering projects

Big Data Analytics

2020-05-31

big data analytics examines large amounts of data to uncover hidden patterns correlations and other insights matlab has the tool neural network toolbox deep learning toolbox from version 18 that provides algorithms functions and apps to create train visualize and simulate neural networks you can perform classification regression clustering dimensionality reduction time series forecasting and dynamic system modeling and control the toolbox includes convolutional neural network and autoencoder deep learning algorithms for image classification and feature learning tasks to speed up training of large data sets you can distribute computations and data across multicore processors gpus and computer clusters using big data tools parallel computing toolbox unsupervised learning algorithms including self organizing maps and competitive layers apps for data fitting pattern recognition and clustering preprocessing postprocessing and network visualization for improving training efficiency and assessing network performance his book develops cluster analysis and pattern recognition

Machine Learning and Data Mining in Pattern Recognition

2012-07-02

this book constitutes the refereed proceedings of the 8th international conference mldm 2012 held in berlin germany in july 2012 the 51 revised full papers presented were carefully reviewed and selected from 212 submissions the topics range from theoretical topics for classification clustering association rule and pattern mining to specific data mining methods for the different multimedia data types such as image mining text mining video mining and web mining

Bio-Inspired Hybrid Intelligent Systems for Image Analysis and Pattern Recognition

2009-11-19

bio inspired hybrid intelligent systems for image analysis and pattern recognition comprises papers on diverse aspects of bio inspired models soft computing and hybrid intelligent systems the articles are divided into four main parts the first one consists of papers that propose new fuzzy and bio inspired models to solve general problems the second part deals with the main theme of modular neural networks in pattern recognition which are basically papers using bio inspired techniques the third part contains papers that apply hybrid intelligent systems to the problem of time series analysis and prediction while the fourth one shows papers dealing with bio inspired models in optimization and robotics applications an edited book in which both theoretical and application aspects are covered

Computational Statistics Handbook with MATLAB

2007-12-20

as with the bestselling first edition computational statistics handbook with matlab second edition covers some of the most commonly used contemporary techniques in computational statistics with a strong practical focus on implementing the methods the authors include algorithmic descriptions of the procedures as well as

Adaptive and Natural Computing Algorithms

2007-07-03

the two volume set lncs 4431 and lncs 4432 constitutes the refereed proceedings of the 8th international conference on adaptive and natural computing algorithms icannga 2007 held in warsaw poland in april 2007 the 178 revised full papers presented were carefully reviewed and selected from a total of 474 submissions

Handbook Of Pattern Recognition And Computer Vision (6th Edition)

2020-04-04

this book presents advances in character recognition and it consists of 12 chapters that cover wide range of topics on different aspects of character recognition hopefully this book will serve as a reference source for academic research for professionals working in the character recognition field and for all interested in the subject

Advances in Character Recognition

2012-11-07

this book presents the results of the 5th international conference on computer recognition systems cores 07 held 22 25 october 2007 in hotel tumski wroclaw poland it brings together original research results in both methodological issues and different application areas of pattern recognition the contributions cover all topics in pattern recognition including for example classification and interpretation of text video and voice

Computer Recognition Systems 2

2007-10-18

ciarp 2003 8th iberoamerican congress on pattern recognition was the eighth event in a series of pioneering congresses on pattern recognition in the latin american c munity of countries this year however the forum was extended to include worldwide participation the event has been held in the past in mexico cuba brazil and por gal it took place this year in havana cuba the aim of the congress was to promote and disseminate ongoing research into mathematical methods for pattern recognition computer vision image analysis and speech recognition as well as the application of these techniques in such diverse areas as robotics industry health entertainment space exploration telecommunications data mining document analysis and natural language processing and recognition to name a few moreover it was a forum for scienti c re arch experience exchange the sharing of new knowledge and establishing contacts to improve cooperation between research groups in pattern recognition computer vision and related areas the congress was organized by the institute of cybernetics mathematics and p sics of cuba icimaf and the center for computing research cic of the national polytechnic institute of mexico and was sponsored by the university of la salle xico the university of oriente cuba the polytechnic institute jose a

Progress in Pattern Recognition, Speech and Image Analysis

2003-11-06

this book constitutes the refereed proceedings of the 8th iberian conference on pattern recognition and image analysis ibpria 2017 held in faro portugal in june 2017 the 60 regular papers presented in this volume were carefully reviewed and selected from 86 submissions they are organized in topical sections named pattern recognition and machine learning computer vision image and signal processing medical image and applications

Pattern Recognition and Image Analysis

2017-06-08

this book constitutes the proceedings of the 11th mexican conference on pattern recognition mcpr 2019 held in querétaro mexico in june 2019 the 40 papers presented in this volume were carefully reviewed and selected from 86 submissions they were organized in topical sections named artificial intelligence techniques and recognition computer vision industrial and medical applications of pattern recognition image processing and analysis pattern recognition techniques signal processing and analysis natural

language and processing and recognition

Advances in Pattern Recognition ICAPR2003

2003

the lncs volume 11818 constitutes the proceedings of the 14th chinese conference on biometric recognition held in zhuzhou china in october 2019 the 56 papers presented in this book were carefully reviewed and selected from 74 submissions the papers cover a wide range of topics such as face recognition and analysis hand based biometrics eye based biometrics gesture gait and action emerging biometrics feature extraction and classification theory and behavioral biometrics

Pattern Recognition

2019-06-19

this book constitutes the refereed proceedings of the 6th iberian conference on pattern recognition and image analysis ibpria 2013 held in funchal madeira portugal in june 2013 the 105 papers 37 oral and 68 poster ones presented were carefully reviewed and selected from 181 submissions the papers are organized in topical sections on computer vision pattern recognition image and signal applications

Biometric Recognition

2019-10-05

this book constitutes the refereed proceedings of the 11th iberoamerican congress on pattern recognition ciarp 2006 held in cancun mexico in november 2006 the 99 revised full papers presented together with three keynote articles were carefully reviewed and selected from 239 submissions the papers cover ongoing research and mathematical methods

Pattern Recognition and Image Analysis

2013-05-23

this 4 volumes set constitutes the proceedings of the icpr 2022 workshops of the 26th international conference on pattern recognition workshops icpr 2022 montreal qc canada august 2023 the 167 full papers presented in these 4 volumes were carefully reviewed and selected from numerous submissions icpr workshops covered domains related to pattern recognition artificial intelligence computer vision image and sound analysis workshops contributions reflected the most recent applications related to healthcare biometrics ethics multimodality cultural heritage imagery affective computing etc

Progress in Pattern Recognition, Image Analysis and Applications

2006-10-12

the book covers a comprehensive overview of the theory methods applications and tools of cognition and recognition the book is a collection of best selected papers presented in the international conference on cognition and recognition 2016 iccr 2016 and helpful for scientists and researchers in the

field of image processing pattern recognition and computer vision for advance studies nowadays researchers are working in interdisciplinary areas and the proceedings of iccr 2016 plays a major role to accumulate those significant works at one place the chapters included in the proceedings inculcates both theoretical as well as practical aspects of different areas like nature inspired algorithms fuzzy systems data mining signal processing image processing text processing wireless sensor networks network security and cellular automata

Pattern Recognition, Computer Vision, and Image Processing. ICPR 2022 International Workshops and Challenges

2023-07-29

this book considers classical and current theory and practice of supervised unsupervised and semi supervised pattern recognition to build a complete background for professionals and students of engineering the authors leading experts in the field of pattern recognition have provided an up to date self contained volume encapsulating this wide spectrum of information the very latest methods are incorporated in this edition semi supervised learning combining clustering algorithms and relevance feedback thoroughly developed to include many more worked examples to give greater understanding of the various methods and techniques many more diagrams included now in two color to provide greater insight through visual presentation matlab code of the most common methods are given at the end of each chapter more matlab code is available together with an accompanying manual via this site latest hot topics included to further the reference value of the text including non linear dimensionality reduction techniques relevance feedback semi supervised learning spectral clustering combining clustering algorithms an accompanying book with matlab code of the most common methods and algorithms in the book together with a descriptive summary and solved examples including real life data sets in imaging and audio recognition the companion book will be available separately or at a special packaged price isbn 9780123744869 thoroughly developed to include many more worked examples to give greater understanding of the various methods and techniques many more diagrams included now in two color to provide greater insight through visual presentation matlab code of the most common methods are given at the end of each chapter an accompanying book with matlab code of the most common methods and algorithms in the book together with a descriptive summary and solved examples and including real life data sets in imaging and audio recognition the companion book is available separately or at a special packaged price book isbn 9780123744869 package isbn 9780123744913 latest hot topics included to further the reference value of the text including non linear dimensionality reduction techniques relevance feedback semi supervised learning spectral clustering combining clustering algorithms solutions manual powerpoint slides and additional resources are available to faculty using the text for their course register at textbooks elsevier com and search on theodoridis to access resources for instructor

Proceedings of International Conference on Cognition and Recognition

2017-10-04

the first matlab programming book written specifically for clinical radiotherapy medical physicists and medical physics trainees this much needed

book teaches users how to create their own clinical applications using matlab as a complement to commercial software particularly when the latter does not cover specific local clinical needs chapters explore key radiotherapy areas such as handling volumes 3d dose calculation comparing dose distributions reconstructing treatment plans and their summations and automated tests for machine quality assurance readers will learn to independently analyse and process images doses structures and other radiotherapy clinical data to deal with standard and non standard situations in radiotherapy this book will also significantly improve understanding of areas such as data nature information content dicom rt standard and data flow it will be an invaluable reference for students of medical physics in addition to clinical radiotherapy physicists and researchers working in radiotherapy features includes real clinical medical physics applications derived from actual clinical problems provides commented matlab scripts working with sample data and or own data matching input requirements promotes critical thinking and practical problem solving skills

Pattern Recognition

2008-11-26

iciar 2005 the international conference on image analysis and recognition was the second iciar conference and was held in toronto canada iciar is organized annually and alternates between europe and north america iciar 2004 was held in porto portugal the idea of o ering these conferences came as a result of discussion between researchers in portugal and canada to encourage collaboration and exchange mainly between these two countries but also with the open participation of other countries addressing recent advances in theory methodology and applications theresponsetothecallforpapersforiciar2005wasencouraging from295 full papers submitted 153 were nally accepted 80 oral presentations and 73 posters the review process was carried out by the program committee m bersandotherreviewers allareexpertsinvariousimageanalysisandrecognition areas each paper was reviewed by at least two reviewers and also checked by the conference co chairs the high quality of the papers in these proceedings is attributed rst to the authors and second to the quality of the reviews provided by the experts we would like to thank the authors for responding to our call andwewholeheartedlythankthe reviewersfor theirexcellentwork andfortheir timely response it is this collective e ort that resulted in the strong conference program and high quality proceedings in your hands

Clinical Radiotherapy Physics with MATLAB

2018-06-12

as a baby one of our earliest stimuli is that of human faces we rapidly learn to identify characterize and eventually distinguish those who are near and dear to us we accept face recognition later as an everyday ability we realize the complexity of the underlying problem only when we attempt to duplicate this skill in a computer vision system this book is arranged around a number of clustered themes covering different aspects of face recognition the first section presents an architecture for face recognition based on hidden markov models it is followed by an article on coding methods the next section is devoted to 3d methods of face recognition and is followed by a section covering various aspects and techniques in video next short section is devoted to the characterization and detection of features in faces finally you can find an article on the human perception of faces and how different neurological or psychological disorders can affect this

Image Analysis and Recognition

2005-10-10

the covid 19 pandemic has increased the focus on health informatics and healthcare technology for policy makers and healthcare professionals worldwide this book contains the 110 papers from 160 submissions accepted for the 18th annual international conference on informatics management and technology in healthcare icimth 2020 held virtually in athens greece from 3 5 july 2020 the conference attracts scientists working in the field of biomedical and health informatics from all continents and this year it was held as a virtual conference by means of teleconferencing due to the covid 19 pandemic and the consequent lockdown in many countries around the world the call for papers for the conference started in december 2019 when signs of the new virus infection were not yet evident so early submissions were on the usual topics as announced but papers submitted after mid march were mostly focused on the first results of the pandemic analysis with respect to informatics in different countries and with different perspectives of the spread of the virus and its influence on public health across the world this book therefore includes papers on the topic of the covid 19 pandemic in relation to informatics reporting from hospitals and institutions from around the world including south korea europe and the usa the book encompasses the field of biomedical and health informatics in a very broad framework and the timely inclusion of papers on the current pandemic will make it of particular interest to all those involved in the provision of healthcare everywhere

New Approaches to Characterization and Recognition of Faces

2011-08-01

this book constitutes the thoroughly refereed proceedings of the 14th international conference on image analysis and recognition iciar 2017 held in montreal qc canada in july 2017 the 73 revised full papers presented were carefully reviewed and selected from 133 submissions the papers are organized in the following topical sections machine learning in image recognition machine learning for medical image computing image enhancement and reconstruction image segmentation motion and tracking 3d computer vision feature extraction detection and classification biomedical image analysis image analysis in ophthalmology remote sensing applications

The Importance of Health Informatics in Public Health during a Pandemic

2020-07-24

this book constitutes the refereed proceedings of the 10th iberoamerican congress on pattern recognition ciarp 2005 held in havana cuba in november 2005 the 107 revised full papers presented together with 3 keynote articles were carefully reviewed and selected from more than 200 submissions the papers cover ongoing research and mathematical methods for pattern recognition image analysis and applications in such diverse areas as computer vision robotics industry health entertainment space exploration telecommunications data mining document analysis and natural language processing and recognition

Image Analysis and Recognition

2017-06-19

digital health and medical informatics have grown in importance in recent years and have now become central to the provision of effective healthcare around the world this book presents the proceedings of the 30th medical informatics europe conference mie this edition of the conference hosted by the european federation for medical informatics efmi since the 1970s was due to be held in geneva switzerland in april 2020 but as a result of measures to prevent the spread of the covid19 pandemic the conference itself had to be cancelled nevertheless because this collection of papers offers a wealth of knowledge and experience across the full spectrum of digital health and medicine it was decided to publish the submissions accepted in the review process and confirmed by the scientific program committee for publication and these are published here as planned the 232 papers are themed under 6 section headings biomedical data tools and methods supporting care delivery health and prevention precision medicine and public health human factors and citizen centered digital health and ethics legal and societal aspects a 7th section deals with the swiss personalized health network and section 8 includes the 125 posters accepted for the conference offering an overview of current trends and developments in digital health and medical informatics the book provides a valuable information resource for researchers and health practitioners alike

Progress in Pattern Recognition, Image Analysis and Applications

2005-11-04

object detection tracking and recognition in images are key problems in computer vision this book provides the reader with a balanced treatment between the theory and practice of selected methods in these areas to make the book accessible to a range of researchers engineers developers and postgraduate students working in computer vision and related fields key features explains the main theoretical ideas behind each method which are augmented with a rigorous mathematical derivation of the formulas their implementation in c and demonstrated working in real applications places an emphasis on tensor and statistical based approaches within object detection and recognition provides an overview of image clustering and classification methods which includes subspace and kernel based processing mean shift and kalman filter neural networks and k means methods contains numerous case study examples of mainly automotive applications includes a companion website hosting full c implementation of topics presented in the book as a software library and an accompanying manual to the software platform

Digital Personalized Health and Medicine

2020-06-17

the use of pattern recognition and classification is fundamental to many of the automated electronic systems in use today however despite the existence of a number of notable books in the field the subject remains very challenging especially for the beginner pattern recognition and classification presents a comprehensive introduction to the core concepts involved in automated pattern recognition it is designed to be accessible to newcomers from varied backgrounds but it will also be useful to researchers and professionals in image and signal processing and analysis and in computer

vision fundamental concepts of supervised and unsupervised classification are presented in an informal rather than axiomatic treatment so that the reader can quickly acquire the necessary background for applying the concepts to real problems more advanced topics such as semi supervised classification combining clustering algorithms and relevance feedback are addressed in the later chapters this book is suitable for undergraduates and graduates studying pattern recognition and machine learning

Machine Vision Applications, Architectures, and Systems Integration

1995

this monograph reports on advances in the measurement and study of autonomic nervous system ans dynamics as a source of reliable and effective markers for mood state recognition and assessment of emotional responses its primary impact will be in affective computing and the application of emotion recognition systems applicative studies of biosignals such as electrocardiograms electrodermal responses respiration activity gaze points and pupil size variation are covered in detail and experimental results explain how to characterize the elicited affective levels and mood states pragmatically and accurately using the information thus extracted from the ans nonlinear signal processing techniques play a crucial role in understanding the ans physiology underlying superficially noticeable changes and provide important quantifiers of cardiovascular control dynamics these have prognostic value in both healthy subjects and patients with mood disorders moreover autonomic nervous system dynamics for mood and emotional state recognition proposes a novel probabilistic approach based on the point process theory in order to model and characterize the instantaneous ans nonlinear dynamics providing a foundation from which machine understanding of emotional response can be enhanced using mathematics and signal processing this work also contributes to pragmatic issues such as emotional and mood state modeling elicitation and non invasive ans monitoring throughout the text a critical review on the current state of the art is reported leading to the description of dedicated experimental protocols novel and reliable mood models and novel wearable systems able to perform ans monitoring in a naturalistic environment biomedical engineers will find this book of interest especially those concerned with nonlinear analysis as will researchers and industrial technicians developing wearable systems and sensors for ans monitoring

Object Detection and Recognition in Digital Images

2013-05-20

this book features high quality research papers presented at the 3rd international conference on computational intelligence in pattern recognition cipr 2021 held at the institute of engineering and management kolkata west bengal india on 24 25 april 2021 it includes practical development experiences in various areas of data analysis and pattern recognition focusing on soft computing technologies clustering and classification algorithms rough set and fuzzy set theory evolutionary computations neural science and neural network systems image processing combinatorial pattern matching social network analysis audio and video data analysis data mining in dynamic environments bioinformatics hybrid computing big data analytics and deep learning it also provides innovative solutions to the challenges in these areas and discusses recent developments

Pattern Recognition and Classification

2012-10-28

this book constitutes the refereed proceedings of the 8th international conference on intelligent computing icic 2012 held in huangshan china in july 2012 the 242 revised full papers presented in the three volumes lncs 7389 lnai 7390 and ccis 304 were carefully reviewed and selected from 753 submissions the papers in this volume ccis 304 are organized in topical sections on neural networks particle swarm optimization and niche technology kernel methods and supporting vector machines biology inspired computing and optimization knowledge discovery and data mining intelligent computing in bioinformatics intelligent computing in pattern recognition intelligent computing in image processing intelligent computing in computer vision intelligent control and automation knowledge representation reasoning and expert systems advances in information security protein and gene bioinformatics soft computing and bio inspired techiques in real world applications bio inspired computing and applications

Autonomic Nervous System Dynamics for Mood and Emotional-State Recognition

2013-10-29

this book constitutes the refereed proceedings of the 4th international symposium on advances in signal processing and intelligent recognition systems sirs 2018 held in bangalore india in september 2018 the 28 revised full papers and 11 revised short papers presented were carefully reviewed and selected from 92 submissions the papers cover wide research fields including information retrieval human computer interaction hci information extraction speech recognition

Computational Intelligence in Pattern Recognition

2021-09-04

Emerging Intelligent Computing Technology and Applications

2012-07-05

Advances in Signal Processing and Intelligent Recognition Systems

2019-01-05

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