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MOVING OBJECT DETECTION BASED ON BACKGROUND SUBTRACTION UNDER CWT DOMAIN FOR VIDEO SURVEILLANCE SYSTEM Theory and Technology of Laser Imaging Based Target Detection Edge Detection Methods Based on Generalized Type-2 Fuzzy Logic Two-Dimensional Change Detection Methods Unsupervised Detection Based on Spatial Relationships Vibration-based Techniques For Damage Detection And Localization In Engineering Structures Smartphone-Based Detection Devices Photoelectric Detection on Derived Attributes of Targets Phishing Detection Using Content-Based Image Classification Remote Sensing in Vessel Detection and Navigation Background Modeling and Foreground Detection for Video Surveillance Structural Health Monitoring & Damage Detection, Volume 7 Malware Analysis and Intrusion Detection in Cyber-Physical Systems Topic Detection and Tracking Beginning Anomaly Detection Using Python-Based Deep Learning Improving the Quality of Life for Dementia Patients through Progressive Detection, Treatment, and Care Biosensors for Foodborne Pathogen Detection Advances in Face Detection and Facial Image Analysis Mobile Hybrid Intrusion Detection New Developments in Unsupervised Outlier Detection Single-imager Occupant Detection Based on Surface Reconstruction Electrochemical Biosensor: Point-of-Care for Early Detection of Bone Loss Practical Threat Detection Engineering Hyphenated and Alternative Methods of Detection in Chromatography Vision-based Pedestrian Protection Systems for Intelligent Vehicles Network Intrusion Detection and Prevention Information Processing and Management of Uncertainty in Knowledge-Based Systems. Theory and Foundations Laser-Based Optical Detection of Explosives Power Swing Detection and Generator Out-of-Step Protection Under Renewable Power Source Integration Brain Tumor Detection Based on Convolutional Neural Network with Neutrosophic Expert Maximum Fuzzy Sure Entropy Intrusion Detection for IP-Based Multimedia Communications over Wireless Networks Mobile Agent-Based Anomaly Detection and Verification System for Smart Home Sensor Networks Stress Detection Based On Multi Modal Data Deep Learning based Vehicle Detection in Aerial Imagery Malware Detection Security and Privacy in Smart Sensor Networks A Passive-blind Image Forgery Detection Based on JPEG Quantization Verification-based Software-fault Detection Image Processing for X-ray and Electron Detection Based on Neural Networks for Pixelated Semiconductor Detectors Applied Cloud Deep Semantic Recognition

MOVING OBJECT DETECTION BASED ON BACKGROUND SUBTRACTION UNDER CWT DOMAIN FOR VIDEO SURVEILLANCE SYSTEM

2017-06-23

this book systematically introduces readers to laser imaging target detection principles and techniques it covers the fundamentals of laser imaging and presents an extensive up to date analysis of how to best use laser imaging to detect targets this is followed by a comprehensive discussion of laser imaging target detection principles laser imaging generation and target detection methods the book offers an invaluable resource for researchers especially those who are engaged in the fields including target detection based on a laser imaging system target detection and identification remote sensing imaging and image processing additionally it can be used as a reference book for advanced undergraduates and postgraduates of relevant majors

Theory and Technology of Laser Imaging Based Target Detection

2017-03-05

in this book four new methods are proposed in the first method the generalized type 2 fuzzy logic is combined with the morphological gra dient technique the second method combines the general type 2 fuzzy systems gt2 fss and the sobel operator in the third approach the me thodology based on sobel operator and gt2 fss is improved to be applied on color images in the fourth approach we proposed a novel edge detec tion method where a digital image is converted a generalized type 2 fuzzy image in this book it is also included a comparative study of type 1 inter val type 2 and generalized type 2 fuzzy systems as tools to enhance edge detection in digital images when used in conjunction with the morphologi cal gradient and the sobel operator the proposed generalized type 2 fuzzy edge detection methods were tested with benchmark images and synthetic images in a grayscale and color format another contribution in this book is that the generalized type 2 fuzzy edge detector method is applied in the preprocessing phase of a face rec ognition system where the recognition system is based on a monolithic neural network the aim of this part of the book is to show the advantage of using a generalized type 2 fuzzy edge detector in pattern recognition applications the main goal of using generalized type 2 fuzzy logic in edge detec tion applications is to provide them with the ability to handle uncertainty in processing real world images otherwise to demonstrate that a gt2 fs has a better performance than the edge detection methods based on type 1 and type 2 fuzzy logic systems

Edge Detection Methods Based on Generalized Type-2 Fuzzy Logic

2012-06-22

change detection using remotely sensed images has many applications such as urban monitoring land cover change analysis and disaster management this work investigates two dimensional change detection methods the existing methods in the literature are grouped into four categories pixel based transformation based texture analysis based and structure based in addition to testing existing methods four new change detection methods are introduced fuzzy logic based shadow detection based local feature based and bipartite graph matching based the latter two methods form the basis for a structural analysis of change detection three thresholding algorithms are compared and their effects on the performance of change detection methods are measured these tests on existing and novel change detection methods make use of a total of 35 panchromatic and multi spectral ikonos image sets quantitative test results and their interpretations are provided

Two-Dimensional Change Detection Methods

2018

this digital revolution introduces new services and new usages in numerous domains the advent of the digitization of documents and the automatization of their processing constitutes a great cultural and economic revolution in this context computer vision provides numerous applications and impacts our daily lives and businesses behind computer vision technology fundamental concepts methodologies and algorithms have been developed worldwide in the last fifty years today computer vision technologies arrive to maturity and become a reality in many domains computer vision systems reach high performance thanks to the large amount of data and the increasing performance of the hardware despite the success of computer vision applications however numerous other applications require more research new methodologies and novel algorithms among the difficult problems encountered in the computer vision domain detection remains a challenging task detection consists of localizing and recognizing an object in an image this problem is far more difficult than the problem of recognition alone among the numerous applications based on detection object detection in a natural scene is the most popular application in the computer vision community this work is about the detection tasks and its applications

Unsupervised Detection Based on Spatial

Relationships

2018-05-04

in the oil and gas industries large companies are endeavoring to find and utilize efficient structural health monitoring methods in order to reduce maintenance costs and time through an examination of the vibration based techniques this title addresses theoretical computational and experimental methods used within this trend by providing comprehensive and up to date coverage of established and emerging processes this book enables the reader to draw their own conclusions about the field of vibration controlled damage detection in comparison with other available techniques the chapters offer a balance between laboratory and practical applications in addition to detailed case studies strengths and weakness are drawn from a broad spectrum of information contents machine learning algorithms for damage detection eloi figueiredo and adam santos data driven methods for vibration based monitoring based on the singular spectrum analysis irina trendafilova david garcia and hussein al bugharbee experimental investigation of delamination effects on modal damping of a cfrp laminate using a statistical rationalization approach majid khazaee ali salehzadeh nobari and m h ferri aliabadi problem of detecting damage through natural frequency changes gilbert rainer gillich nuno n n maia and ion cornel mituletu damage localization based on modal response measured with shearography j v araújo dos santos and h lopes novel techniques for damage detection based on mode shape analysis wieslaw ostachowicz maciej radzieński maosen cao and wei xu damage identification based on response functions in time and frequency domains r p c sampaio t a n silva n m m maia and s zhong readership engineers technicians researchers working in the field of vibration based techniques keywords structural health monitoring shm vibration based shm machine learning time domain data analysis frequency domain data analysis damage indexreview key features the 1st book to address theoretical computational and experimental methodsthe book provides an up to date and comprehensive coverage of established and emerging techniques within the field of vibration controlled damage detectionexcellent balance between laboratory and practical applicationsmany case studies in various chapters that help the reader to identify weak and strong points of various techniques

Vibration-based Techniques For Damage Detection And Localization In Engineering Structures

2021-08-21

smartphone usage has created a new means for detection analysis diagnosis and monitoring through the use of new apps and attachments these breakthrough analytical methods offer ways to overcome the drawbacks of more conventional methods such as the expensive instrumentation that is often needed complex sample

pre treatment steps or time consuming procedures smartphone based detection devices emerging trends in analytical techniques gathers these modern developments in smartphone analytical methods into one comprehensive source covering recent advancements in analytical tools while paying special attention to the most accurate highly efficient approaches serving as a guide not only to analytical chemists but also to environmentalists biotechnologists pharmacists forensic scientists and toxicologists smartphone based detection devices emerging trends in analytical techniques is an important source for researchers who require accurate analysis of their on and off site samples students in these fields at the graduate and post graduate level will also benefit from this topical and comprehensive book provides an integrated approach for advanced analytical methods and techniques using smartphones covers the usage of smartphones in sample prep integration and detection stages of analytical chemistry applicable for researchers of all levels from graduate students to professionals

Smartphone-Based Detection Devices

2023-08-22

this book highlights the novel photoelectric detection technique on derived attributes of targets photoelectric detection on derived attributes of targets is a new target detection and monitoring method it is achieved by acquiring three types of attributes of the target including those that reflect the essential features of parts of the target those directly generated from the target and those synthesized by the target features the book introduces the classification of derived attributes of targets and describes typical detection methods emphases are put on laser detection of aerial moving targets using derived attributes such as the disturbance of atmospheric wind fields trailing vortexes and the disturbance of atmospheric components the authors also elaborate on visible light imaging detection using derived attributes such as retroreflection and the identification of target carriers besides the synthetic attributes processing of integrated aerospace images is introduced for the detection of targets on the ground and sea surfaces this book can be used as a good reference for researchers engaged in the fields of photoelectric detection target detection and image processing and as a reference book for senior undergraduates and postgraduates in relevant majors

Photoelectric Detection on Derived Attributes of Targets

2022-06-01

phishing detection using content based image classification is an invaluable resource for any deep learning and cybersecurity professional and scholar trying to solve

various cybersecurity tasks using new age technologies like deep learning and computer vision with various rule based phishing detection techniques at play which can be bypassed by phishers this book provides a step by step approach to solve this problem using computer vision and deep learning techniques with significant accuracy the book offers comprehensive coverage of the most essential topics including programmatically reading and manipulating image data extracting relevant features from images building statistical models using image features using state of the art deep learning models for feature extraction build a robust phishing detection tool even with less data dimensionality reduction techniques class imbalance treatment feature fusion techniques building performance metrics for multi class classification task another unique aspect of this book is it comes with a completely reproducible code base developed by the author and shared via python notebooks for quick launch and running capabilities they can be leveraged for further enhancing the provided models using new advancement in the field of computer vision and more advanced algorithms

Phishing Detection Using Content-Based Image Classification

2020-12-11

the special issue entitled remote sensing in vessel detection and navigation comprises 15 articles on many topics related to remote sensing with navigational sensors the sequence of articles included in this special issue is in line with the latest scientific trends the latest developments in science including artificial intelligence were used it can be said that navigation and vessel detection remain important and hot topics and a lot of work will continue to be done worldwide new techniques and methods for analyzing and extracting information from navigational sensors and data have been proposed and verified some of these will spark further research and some are already mature and can be considered for industrial implementation and development

Remote Sensing in Vessel Detection and Navigation

2014-07-25

background modeling and foreground detection are important steps in video processing used to detect robustly moving objects in challenging environments this requires effective methods for dealing with dynamic backgrounds and illumination changes as well as algorithms that must meet real time and low memory requirements incorporating both established and new ideas background modeling and foreground detection for video surveillance provides a complete overview of the concepts algorithms and applications related to background modeling and foreground detection leaders in the field address a wide range of challenges including camera

jitter and background subtraction the book presents the top methods and algorithms for detecting moving objects in video surveillance it covers statistical models clustering models neural networks and fuzzy models it also addresses sensors hardware and implementation issues and discusses the resources and datasets required for evaluating and comparing background subtraction algorithms the datasets and codes used in the text along with links to software demonstrations are available on the book s website a one stop resource on up to date models algorithms implementations and benchmarking techniques this book helps researchers and industry developers understand how to apply background models and foreground detection methods to video surveillance and related areas such as optical motion capture multimedia applications teleconferencing video editing and human computer interfaces it can also be used in graduate courses on computer vision image processing real time architecture machine learning or data mining

Background Modeling and Foreground Detection for Video Surveillance

2017-03-20

structural health monitoring damage detection volume 7 proceedings of the 35th imac a conference and exposition on structural dynamics 2017 the seventh volume of ten from the conference brings together contributions to this important area of research and engineering the collection presents early findings and case studies on fundamental and applied aspects of structural health monitoring damage detection including papers on structural health monitoring damage detection system identification active controls

Structural Health Monitoring & Damage Detection, Volume 7

2023-09-26

many static and behavior based malware detection methods have been developed to address malware and other cyber threats even though these cybersecurity systems offer good outcomes in a large dataset they lack reliability and robustness in terms of detection there is a critical need for relevant research on enhancing ai based cybersecurity solutions such as malware detection and malicious behavior identification malware analysis and intrusion detection in cyber physical systems focuses on dynamic malware analysis and its time sequence output of observed activity including advanced machine learning and ai based malware detection and categorization tasks in real time covering topics such as intrusion detection systems low cost manufacturing and surveillance robots this premier reference source is

essential for cyber security professionals computer scientists students and educators of higher education researchers and academicians

Malware Analysis and Intrusion Detection in Cyber-Physical Systems

2012-12-06

topic detection and tracking event based information organization brings together in one place state of the art research in topic detection and tracking tdt this collection of technical papers from leading researchers in the field not only provides several chapters devoted to the research program and its evaluation paradigm but also presents the most current research results and describes some of the remaining open challenges topic detection and tracking event based information organization is an excellent reference for researchers and practitioners in a variety of fields related to tdt including information retrieval automatic speech recognition machine learning and information extraction

Topic Detection and Tracking

2019-10-10

utilize this easy to follow beginner s guide to understand how deep learning can be applied to the task of anomaly detection using keras and pytorch in python the book focuses on how various deep learning models can be applied to semi supervised and unsupervised anomaly detection tasks this book begins with an explanation of what anomaly detection is what it is used for and its importance after covering statistical and traditional machine learning methods for anomaly detection using scikit learn in python the book then provides an introduction to deep learning with details on how to build and train a deep learning model in both keras and pytorch before shifting the focus to applications of the following deep learning models to anomaly detection various types of autoencoders restricted boltzmann machines rnns lstms and temporal convolutional networks the book explores unsupervised and semi supervised anomaly detection along with the basics of time series based anomaly detection by the end of the book you will have a thorough understanding of the basic task of anomaly detection as well as an assortment of methods to approach anomaly detection ranging from traditional methods to deep learning additionally you are introduced to scikit learn and are able to create deep learning models in keras and pytorch what you will learnunderstand what anomaly detection is and why it is important in today s world become familiar with statistical and traditional machine learning approaches to anomaly detection using scikit learn know the basics of deep learning in python using keras and pytorch be aware of basic data science concepts for measuring a model s performance understand what auc is what precision and

recall mean and more apply deep learning to semi supervised and unsupervised anomaly detection who this book is for data scientists and machine learning engineers interested in learning the basics of deep learning applications in anomaly detection

Beginning Anomaly Detection Using Python-Based Deep Learning

2016-10-11

the prominence of dementia within the global aging population has undergone an increase in recent years to improve the living conditions of patients researchers must place more emphasis on early detection methods improving the quality of life for dementia patients through progressive detection treatment and care provides a thorough overview of emerging research on various neuroscience methods for the early diagnosis of dementia and focuses on the improvement of healthcare delivery to patients highlighting relevant issues on health information systems behavioral indicators and treatment methods this book is a pivotal reference source for health professionals neuroscientists upper level students practitioners and researchers interested in the latest developments within the field of dementia treatment

Improving the Quality of Life for Dementia Patients through Progressive Detection, Treatment, and Care

2024-03-22

biosensors for foodborne pathogens detection a rapid detection approach covers rapid and accurate measurement for biosensing analysis this book is organized in a systematic way covering basic introduction and advanced approaches in biosensing and their use in the detection of food pathogens this compilation includes chapters such as methods techniques and latest developments in the detection of foodborne pathogens basic principles in biosensors and bioelectronics for the foodborne pathogens various bio recognition receptors used in the biosensors nanomaterials and signal amplification in biosensors for foodborne pathogens electrochemical biosensors for foodborne pathogens optical biosensors for foodborne pathogens and more this book act as a comprehensive resource for researchers or scientists working in food safety especially in microbial food spoilage detection using biosensors explores biosensing in the detection of food pathogens from basic introduction to advanced approaches covers advancements in electrochemical impedance spectroscopy eis based biosensors because of its enhanced sensitivity and specificity brings the role of nanotechnology in biosensing

Biosensors for Foodborne Pathogen Detection

2016-04-02

this book presents the state of the art in face detection and analysis it outlines new research directions including in particular psychology based facial dynamics recognition aimed at various applications such as behavior analysis deception detection and diagnosis of various psychological disorders topics of interest include face and facial landmark detection face recognition facial expression and emotion analysis facial dynamics analysis face classification identification and clustering and gaze direction and head pose estimation as well as applications of face analysis

Advances in Face Detection and Facial Image Analysis

2011-01-19

this monograph comprises work on network based intrusion detection id that is grounded in visualisation and hybrid artificial intelligence ai it has led to the design of movicab ids mobile visualisation connectionist agent based ids a novel intrusion detection system ids which is comprehensively described in this book this novel ids combines different ai paradigms to visualise network traffic for id at packet level it is based on a dynamic multiagent system mas which integrates an unsupervised neural projection model and the case based reasoning cbr paradigm through the use of deliberative agents that are capable of learning and evolving with the environment the proposed novel hybrid ids provides security personnel with a synthetic intuitive snapshot of network traffic and protocol interactions this visualisation interface supports the straightforward detection of anomalous situations and their subsequent identification the performance of movicab ids was tested through a novel mutation based testing method in different real domains which entailed several attacks and anomalous situations

Mobile Hybrid Intrusion Detection

2020-11-24

this book enriches unsupervised outlier detection research by proposing several new distance based and density based outlier scores in a k nearest neighbors setting the respective chapters highlight the latest developments in k nearest neighbor based outlier detection research and cover such topics as our present understanding of unsupervised outlier detection in general distance based and density based outlier detection in particular and the applications of the latest findings to boundary point detection and novel object detection the book also offers a new perspective on

bridging the gap between k nearest neighbor based outlier detection and clustering based outlier detection laying the groundwork for future advances in unsupervised outlier detection research the authors hope the algorithms and applications proposed here will serve as valuable resources for outlier detection researchers for years to come

New Developments in Unsupervised Outlier Detection

2005

this book presents the design of a robust portable and low cost poc sensing system for the early detection of bone loss the device can measure the level of ctx i one of the most sensitive biochemical markers of bone resorption in serum and transmit the measured value to an iot based cloud server the selectivity of the sensing system to ctx i has been achieved by coating the sensor with artificial antibodies prepared by means of molecular imprinting technology explaining all aspects of the system s development in detail the book will be of great interest to all engineers researchers and scientists whose work involves the development of electrochemical sensors and poc devices

Single-imager Occupant Detection Based on Surface Reconstruction

2018-12-13

go on a journey through the threat detection engineering lifecycle while enriching your skill set and protecting your organization key features gain a comprehensive understanding of threat validation leverage open source tools to test security detections harness open source content to supplement detection and testing book descriptionthreat validation is an indispensable component of every security detection program ensuring a healthy detection pipeline this comprehensive detection engineering guide will serve as an introduction for those who are new to detection validation providing valuable guidelines to swiftly bring you up to speed the book will show you how to apply the supplied frameworks to assess test and validate your detection program it covers the entire life cycle of a detection from creation to validation with the help of real world examples featuring hands on tutorials and projects this guide will enable you to confidently validate the detections in your security program this book serves as your guide to building a career in detection engineering highlighting the essential skills and knowledge vital for detection engineers in today s landscape by the end of this book you ll have developed the skills necessary to test your security detection program and strengthen your organization s

security measures what you will learn understand the detection engineering process build a detection engineering test lab learn how to maintain detections as code understand how threat intelligence can be used to drive detection development prove the effectiveness of detection capabilities to business leadership learn how to limit attackers ability to inflict damage by detecting any malicious activity early who this book is for this book is for security analysts and engineers seeking to improve their organization s security posture by mastering the detection engineering lifecycle to get started with this book you ll need a basic understanding of cybersecurity concepts along with some experience with detection and alert capabilities

Electrochemical Biosensor: Point-of-Care for Early Detection of Bone Loss

2023-07-21

widely employed for separating and detecting chemicals in solution separation techniques are most often applied in tandem subsequently referred to as hyphenated methods hyphenated and alternative methods of detection in chromatography details the development and application of mass spectral detection techniques coupled with gas phase and liquid

Practical Threat Detection Engineering

2011-12-14

pedestrian protection systems ppss are on board systems aimed at detecting and tracking people in the surroundings of a vehicle in order to avoid potentially dangerous situations these systems together with other advanced driver assistance systems adas such as lane departure warning or adaptive cruise control are one of the most promising ways to improve traffic safety by the use of computer vision cameras working either in the visible or infra red spectra have been demonstrated as a reliable sensor to perform this task nevertheless the variability of human s appearance not only in terms of clothing and sizes but also as a result of their dynamic shape makes pedestrians one of the most complex classes even for computer vision moreover the unstructured changing and unpredictable environment in which such on board systems must work makes detection a difficult task to be carried out with the demanded robustness in this brief the state of the art in ppss is introduced through the review of the most relevant papers of the last decade a common computational architecture is presented as a framework to organize each method according to its main contribution more than 300 papers are referenced most of them addressing pedestrian detection and others corresponding to the descriptors features pedestrian models and learning machines used in addition an overview of topics such as real time aspects systems benchmarking and future challenges of this research

area are presented

Hyphenated and Alternative Methods of Detection in Chromatography

2013-08-31

network intrusion detection and prevention concepts and techniques provides detailed and concise information on different types of attacks theoretical foundation of attack detection approaches implementation data collection evaluation and intrusion response additionally it provides an overview of some of the commercially publicly available intrusion detection and response systems on the topic of intrusion detection system it is impossible to include everything there is to say on all subjects however we have tried to cover the most important and common ones network intrusion detection and prevention concepts and techniques is designed for researchers and practitioners in industry this book is suitable for advanced level students in computer science as a reference book as well

Vision-based Pedestrian Protection Systems for Intelligent Vehicles

2009-10-10

this three volume set ccis 853 855 constitutes the proceedings of the 17th international conference on information processing and management of uncertainty in knowledge based systems ipmu 2017 held in cádiz spain in june 2018 the 193 revised full papers were carefully reviewed and selected from 383 submissions the papers are organized in topical sections on advances on explainable artificial intelligence aggregation operators fuzzy metrics and applications belief function theory and its applications current techniques to model process and describe time series discrete models and computational intelligence formal concept analysis and uncertainty fuzzy implication functions fuzzy logic and artificial intelligence problems fuzzy mathematical analysis and applications fuzzy methods in data mining and knowledge discovery fuzzy transforms theory and applications to data analysis and image processing imprecise probabilities foundations and applications mathematical fuzzy logic mathematical morphology measures of comparison and entropies for fuzzy sets and their extensions new trends in data aggregation pre aggregation functions and generalized forms of monotonicity rough and fuzzy similarity modelling tools soft computing for decision making in uncertainty soft computing in information retrieval and sentiment analysis tri partitions and uncertainty decision making modeling and applications logical methods in mining knowledge from big data metaheuristics and machine learning optimization models for modern analytics uncertainty in medicine

uncertainty in video image processing uvip

Network Intrusion Detection and Prevention

2018-05-30

laser based optical detection of explosives offers a comprehensive review of past present and emerging laser based methods for the detection of a variety of explosives this book considers laser propagation safety and explains standard test material preparation for standoff optical based detection system evaluation explores explosives detection using deep ultraviolet native fluorescence raman spectroscopy laser induced breakdown spectroscopy reflectometry and hyperspectral imaging examines photodissociation followed by laser induced fluorescence photothermal methods cavity enhanced absorption spectrometry and short pulse laser based techniques describes the detection and recognition of explosives using terahertz frequency spectroscopic techniques each chapter is authored by a leading expert on the respective technology and is structured to supply historical perspective address current advantages and challenges and discuss novel research and applications readers are left with an in depth understanding and appreciation of each technology s capabilities and potential for standoff hazard detection

Information Processing and Management of Uncertainty in Knowledge-Based Systems. Theory and Foundations

2018-09-03

this monograph focuses on the modern power system and its reliable operation on a national scale the contents focus on the analysis and root cause of different power system blackouts the introduction of a phasor measurement unit incorporating a polygon shaped graphical algorithm for out of step protection of the synchronous generator predictive out of step protection dual slope relay setting novel apparent stability concept among others this volume will be beneficial to academia and industry during the testing development and modeling of protective relays for generators transformers and transmission lines

Laser-Based Optical Detection of Explosives

2023-03-25

brain tumor classification is a challenging task in the field of medical image processing the present study proposes a hybrid method using neutrosophy and

convolutional neural network ns cnn it aims to classify tumor region areas that are segmented from brain images as benign and malignant in the first stage mri images were segmented using the neutrosophic set expert maximum fuzzy sure entropy ns emfse approach

Power Swing Detection and Generator Out-of-Step Protection Under Renewable Power Source Integration

2013-09-27

ip based multimedia communications have become increasingly popular in recent years with the increasing coverage of the ieee 802 11tm based wireless networks ip based multimedia communications over wireless networks are also drawing extensive attention in both academia and industry due to the openness and distributed nature of the protocols involved such as the session initiation protocol sip and the ieee 802 11tm standard it becomes easy for malicious users in the network to achieve their own gain or disrupt the service by deviating from the normal protocol behaviors this springerbrief presents real time intrusion detection techniques that can quickly track the malicious behaviors which manipulate the vulnerabilities from either the 802 11tm or the sip protocols more specifically this book presents interdisciplinary techniques to achieve an effective real time intrusion detection system which interweaves medium access control mac protocol analysis cumulative sum cusum based detector design a novel markovian model for cusum detectors sketch based traffic modeling and wavelet based signal processing techniques

Brain Tumor Detection Based on Convolutional Neural Network with Neutrosophic Expert Maximum Fuzzy Sure Entropy

2018-01-31

this book presents the latest developments regarding a detailed mobile agent enabled anomaly detection and verification system for resource constrained sensor networks a number of algorithms on multi aspect anomaly detection in sensor networks several algorithms on mobile agent transmission optimization in resource constrained sensor networks an algorithm on mobile agent enabled in situ verification of anomalous sensor nodes a detailed petri net based formal modeling and analysis of the proposed system and an algorithm on fuzzy logic based cross layer anomaly detection and mobile agent transmission optimization as such it offers a comprehensive text for interested readers from academia and industry alike

Intrusion Detection for IP-Based Multimedia Communications over Wireless Networks

2022-02-09

this book proposes a novel deep learning based detection method focusing on vehicle detection in aerial imagery recorded in top view the base detection framework is extended by two novel components to improve the detection accuracy by enhancing the contextual and semantical content of the employed feature representation to reduce the inference time a lightweight cnn architecture is proposed as base architecture and a novel module that restricts the search area is introduced

Mobile Agent-Based Anomaly Detection and Verification System for Smart Home Sensor Networks

2007-03-06

this book captures the state of the art research in the area of malicious code detection prevention and mitigation it contains cutting edge behavior based techniques to analyze and detect obfuscated malware the book analyzes current trends in malware activity online including botnets and malicious code for profit and it proposes effective models for detection and prevention of attacks using furthermore the book introduces novel techniques for creating services that protect their own integrity and safety plus the data they manage

Stress Detection Based On Multi Modal Data

2018-05-09

security and privacy protection within computer networks can be a challenge by examining the current problems and challenges this domain is facing more efficient strategies can be established to safeguard personal information against invasive pressures security and privacy in smart sensor networks is a critical scholarly resource that examines recent developments and emerging trends in smart sensor security and privacy by providing new models practical solutions and technological advances related to security featuring coverage on a broad range of topics such as cloud security encryption and intrusion detection systems this book is geared towards academicians engineers it specialists researchers and students seeking current research on authentication and intrusion detection

Deep Learning based Vehicle Detection in Aerial Imagery

2009

software is used in many safety and security critical systems software development is however an error prone task in this work new techniques for the detection of software faults or software bugs are described which are based on a formal deductive verification technology the described techniques take advantage of information obtained during verification and combine verification technology with deductive fault detection and test generation in a very unified way

Malware Detection

2014-08-22

this book provides a comprehensive overview of the research on anomaly detection with respect to context and situational awareness that aim to get a better understanding of how context information influences anomaly detection in each chapter it identifies advanced anomaly detection and key assumptions which are used by the model to differentiate between normal and anomalous behavior when applying a given model to a particular application the assumptions can be used as guidelines to assess the effectiveness of the model in that domain each chapter provides an advanced deep content understanding and anomaly detection algorithm and then shows how the proposed approach is deviating of the basic techniques further for each chapter it describes the advantages and disadvantages of the algorithm the final chapters provide a discussion on the computational complexity of the models and graph computational frameworks such as google tensorflow and h2o because it is an important issue in real application domains this book provides a better understanding of the different directions in which research has been done on deep semantic analysis and situational assessment using deep learning for anomalous detection and how methods developed in one area can be applied in applications in other domains this book seeks to provide both cyber analytics practitioners and researchers an up to date and advanced knowledge in cloud based frameworks for deep semantic analysis and advanced anomaly detection using cognitive and artificial intelligence ai models

Security and Privacy in Smart Sensor Networks

2023

A Passive-blind Image Forgery Detection Based on JPEG Quantization

2018-04-09

Verification-based Software-fault Detection

Image Processing for X-ray and Electron Detection Based on Neural Networks for Pixelated Semiconductor Detectors

Applied Cloud Deep Semantic Recognition

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