

2019 | Buch

Advances in Computing and Data Sciences

Third International Conference, ICACDS 2019, Ghaziabad, India, April 12–13, 2019, Revised Selected Papers, Part I

herausgegeben von: Mayank Singh, P.K. Gupta, Prof. Vipin Tyagi, Prof. Jan Flusser, Tuncer Ören, Rekha Kashyap

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Über dieses Buch

This two-volume set (CCIS 1045 and CCIS 1046) constitutes the refereed proceedings of the Third International Conference on Advances in Computing and Data Sciences, ICACDS 2019, held in Ghaziabad, India, in April 2019.

The 112 full papers were carefully reviewed and selected from 621 submissions. The papers are centered around topics like advanced computing, data sciences, distributed systems organizing principles, development frameworks and environments, software verification and validation, computational complexity and cryptography, machine learning theory, database theory, probabilistic representations.

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Frontmatter

Comparative Analysis of Cognitive Neurodynamics on AMIGOS Dataset Versus Prepared Dataset

Abstract
Cognitive Neurodynamics is the scientific field that is concerned with the study of biological processes of brain and aspects that underlie cognition. The specific focus of cognition is on neural connections that are involved in the mental process. So the resultant of cognitive states which consists of thoughts, perception, memory, experiences predicted the state of emotional behaviour in human. There are two parts of brain which are

Mehr anzeigen ↓

Business Forecasting in the Light of Statistical Approaches and Machine Learning Classifiers

Abstract
The paper focuses a non-conventional approach using Poisson and Binomial distributions for optimum strategic business forecasting. An analysis has been carried out based on profit-loss statistics of consecutive ten years. Relevance of Poisson distribution in business forecasting is shown. Relevance of Binomial distribution in business forecasting is also shown. Curve fitting has been applied to reveal further some discovered facts related to gain analysis. Linear Regression, Exponential, Parabolic, Power function, Logarithmic, polynomial of degree 2 and 4 curves are shown as cases. Novel facts related to business forecasting in the light of machine learning classifiers have been pointed out leading to new directions in the field of research in business analytics.

Prasun Chakrabarti, Biswajit Sanjib, Siddhant Bane, Tulika Chakrabarti, Narendra S. Chaudhuri, Pierluigi Siano

Weniger anzeigen ↑

Real Time Prediction of American Sign Language Using Convolutional Neural Networks

Abstract
The American Sign Language (ASL) was developed in the early 19th century in the American School for Deaf, United States of America. It is a natural language inspired by the French sign language and is used by around half a million people around the world with a majority in North America. The Deaf Culture views deafness as a difference in human experience rather than a disability, and ASL plays an important role in this experience. In this

Mehr anzeigen ↓

Hybridization of Fuzzy Min-Max Neural Networks with kNN for Enhanced Pattern Classification

Abstract
Fuzzy Min-Max Neural Networks (FMNN) is a single epoch learning Pattern Classification algorithm with several advantages for online learning. The information loss due to Contraction step of FMNN leads to several improvements in literature such as MLF, FMCN etc. These approaches do not use Contraction step and provide additional structures in FMNN for decision making in overlapped regions overcoming the problems of Contraction

Mehr anzeigen ↓

Individualized Patient-Centered Type 2 Diabetes Recommender System

Abstract
Diabetes mellitus is unfolding as a global health challenge in today's society. The rapid advancement in the information and communication technology coupled with the burgeoning demand for data connectivity have carved the path for increased opportunities for diabetes self-management. This paper explores the use of a mobile application as a tool for providing patient-tailored diet to help improve clinical outcomes. To

Mehr anzeigen ↓

CAD Data Computing for Component Type Realization and Assembly Sequence Generation

Abstract
Computer Aided Design (CAD) packages are widely used to create mathematical modelling of product's geometry at the time of design and development phase. This CAD model involves very complicated definition of geometrical entities and interpretation of the same for assembly planning is an open research area. Most of the currently used assembly planning approaches hugely depends on human expert's intervention.

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Methods to Distinguish Photorealistic Computer Generated Images from Photographic Images: A Review

Abstract
Uses of digital images have increased multifold in last few years in various important fields such as virtual reality, gaming, social media, magazine, news papers, medical, legal issues, law, academics etc. At the same time, image editing and rendering tools have also evolved significantly. With the help of computers and such advanced image rendering tools it is possible to create photorealistic computer graphics images effortlessly. It is very

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A Novel Approach for Automatic Diagnosis of Skin Carcinoma from Dermoscopic Images Using Parallel Deep Residual Networks

Abstract
Basal cell carcinoma and squamous cell carcinoma are known to be the two most widespread variety of skin cancer. In this study, we introduce a novel state of the art deep neural network for skin carcinoma detection. The proposed network requires training two identical subnetworks to perform extensive feature extraction for accurate classification. These subnetworks are designed following the deep residual learning paradigm to

Mehr anzeigen ↓

Identification of Various Neurological Disorders Using EEG Signals

Abstract
Activity of human body is controlled by human brain. Identification of different neurological disorders from EEG signals is still a challenging task. In this paper EEG dataset of forty eight subjects (twelve - epileptic, twelve -normal, twelve - schizophrenic and twelve - alzheimer) have been investigated and it is evident from the findings that remarkable difference exists for extracted features. Six statistical features have been extracted

Mehr anzeigen ↓

Neural Networks Based Cancer Classification Model Using CT-PET Fused Images

Abstract
Classification of cancer determines appropriate treatment and help determines the prognosis which can reduce mortality rate and healthcare treatment cost. In this work neural network based efficient classification model is proposed. The various steps, Pre processing, Image fusion, Feature extraction, Image segmentation, classification and performance evaluation has been followed in this work. Linear Contrast enhancement technique

Mehr anzeigen ↓

A Deep Learning Approach to Speech Recognition of Digits

Abstract
One of the technologies gaining an increasing popularity in recent years has been speech recognition. This technology has a widespread user base ranging from organizations to individuals for the various benefits it provides. Today, there are a great deal of virtual voice assistants in the market- Siri, Cortana and Alexa, to name a few. However, they all require an active internet connection and aren't supported on all devices. We have built a

Mehr anzeigen ↓

An Architecture for Analysis of Mobile Botnet Detection Using Machine Learning

Abstract
The smart-phone has become a critical cybernetic victim especially of cellular botnets. The current exploration examines mobile botnet attacks for Android smart-phone launched from a Windows based PC and detects those attacks using an ensemble machine learning classification algorithm. This investigation is to breach the gap to develop malware framework in perspective of headers' field examination of PE format with 3 features.

Mehr anzeigen ↓

Thyroid Prediction Using Machine Learning Techniques

Abstract
Thyroid is a critical medical condition which can be caused either due to increased levels of TSH (Thyroid Stimulating Organ) or due to some infection in thyroid organs itself. The machine learning algorithms have been employed to model the prediction and diagnosis of thyroid patients. A variety of these algorithms including Decision trees, Random forest, Support vector machine, Artificial Neural Network and Logistic regression have

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An Iterative Scheme for a Class of Fractional Order Perturbed Differential Equations

Abstract
This paper presents an existence and uniqueness theorem for a class of fractional order perturbed differential equations using modified quasilinearization method. A convergence analysis is accomplished not only using the monotone properties of the functions involved but also with a relaxation on these properties. The applicability of the proposed scheme is illustrated using examples assuring the uniqueness that the literature

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A Novel Algorithm to Compute Stable Groups in Signed Social Networks

Abstract
This paper presents two new problems in the context of signed social networks and then conducts a systematic analysis of the same. These problems essentially deal with finding groups of specific cardinality that satisfy certain stability requirements. In particular, we define two notions of stability in signed social networks, namely internal stability and external stability. We call a group internally stable if the difference between

Mehr anzeigen ↓

Deep Convolution Neural Network Based Denoiser for Mammographic Images

Abstract
Denoising is an important image pre-processing operation required to improve the image quality. In the past, several image denoising solutions have been put forth with varying performances. Recently, deep-learning based approaches have given better results than conventional algorithms. While these methods offer promising results on denoising of natural images, their application to medical imaging is yet to be fully explored. In this

Mehr anzeigen ↓

Detection of Brain Tumor Using Machine Learning Approach

Abstract
Tumor in brain is one of the most dangerous diseases which if not detected at the early stages can even risk the life. Currently, the methods used by neurologists for analysis are not completely error free and states that manual segmentation isn't a good idea. This study presents machine learning based approach for segmentation of brain images and identification of tumor using SVM classification approach which improve the performance.

Mehr anzeigen ↓

Fuzzy Petri Net Representation of Fuzzy Production Propositions of a Rule Based System

Abstract
Petri net is a potential mathematical and graphical modelling tool, used to examine the properties of various complex discrete event and distributed systems. In this paper, a Petri net variant, called Fuzzy Petri net (FPN) has been used to represent Fuzzy Production propositions of a rule based system, where a fuzzy production proposition explains the fuzzy relation among two propositions. For this purpose, another Petri net variant, known

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