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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 detection 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

the influence of neutrosophy in the previous period is constantly growing in many areas

of science and technology moreover various applications of the neutrosophic approach have become more common in recent years our goal in this research is to utilize the neutrosophy to improve the performance of the dai liao conjugate gradient cg method specifically in this research we propose and investigate a new neutrosophic logic system to calculate the key parameter t involved in the dai liao cg iterations theoretical analysis and numerical experience indicate that the efficiency and robustness of the new rule for determining t combining the neutrosophy and the dai liao conjugate gradient method we propose and explore a new dai liao cg iterations for solving large scale unconstrained optimization models the global convergence is established under common assumptions and the backtracking line search finally by conducting numerical experiments computational evidence demonstrates that the new fuzzy neutrosophic dai liao conjugate gradient method is computationally effective and robust

this two volume set lncs 9771 and lncs 9772 constitutes in conjunction with the volume Inai 9773 the refereed proceedings of the 12th international conference on intelligent computing icic 2016 held in lanzhou china in august 2016 the 221 full papers and 15 short papers of the three proceedings volumes were carefully reviewed and selected from 639 submissions the papers are organized in topical sections such as signal processing and image processing information security knowledge discovery and data mining systems biology and intelligent computing in computational biology intelligent computing in scheduling information security advances in swarm intelligence algorithms and applications machine learning and data analysis for medical and engineering applications evolutionary computation and learning independent component analysis compressed sensing sparse coding social computing neural networks nature inspired computing and optimization genetic algorithms signal processing pattern recognition biometrics recognition image processing information security virtual reality and human computer interaction healthcare informatics theory and methods artificial bee colony algorithms differential evolution memetic algorithms swarm intelligence and optimization soft computing protein structure and function prediction advances in swarm intelligence algorithms and applications optimization neural network and signal processing biomedical informatics and image processing machine learning knowledge discovery and natural language processing nature inspired computing and optimization intelligent

control and automation intelligent data analysis and prediction computer vision knowledge representation and expert system bioinformatics

this textbook for courses in digital systems design introduces students to the fundamental hardware used in modern computers coverage includes both the classical approach to digital system design i e pen and paper in addition to the modern hardware description language hdl design approach computer based using this textbook enables readers to design digital systems using the modern hdl approach but they have a broad foundation of knowledge of the underlying hardware and theory of their designs this book is designed to match the way the material is actually taught in the classroom topics are presented in a manner which builds foundational knowledge before moving onto advanced topics the author has designed the presentation with learning goals and assessment at its core each section addresses a specific learning outcome that the student should be able to do after its completion the concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome

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