Academic Communications

The 15th Int'l Conference on

Computational Intelligence and Software Engineering

January 4-6, 2025

Sanya, China

editor1@academicx.org

Software Engineering With Computational Intelligence

Vishal Jain,Jyotir Moy Chatterjee,Ankita Bansal,Utku Kose,Abha Jain

Software Engineering With Computational Intelligence:

Software Engineering with Computational Intelligence Jonathan Lee,2003-03-19 This edited book invites the reader to explore how the latest technologies developed in computational intelligence can be extended and applied to software engineering Leading experts demonstrate how this recent confluence of software engineering and computational intelligence provides a powerful tool to address the increasing demand for complex applications in diversified areas the ever increasing complexity and size of software systems and the inherently imperfect nature of the information The presented treatments to software modeling and formal analysis permit the extension of computational intelligence to various phases in software life cycles such as managing fuzziness resident in the requirements coping with fuzzy objects and imprecise knowledge and handling uncertainty encountered in quality prediction **Computational Intelligence in Software Engineering** Witold Pedrycz,Mehmet Aksit,2004 **Computational Intelligence in Software Engineering** Witold Pedrycz,James F. Peters,1998 This unique volume is the first publication on software engineering and computational intelligence CI viewed as a synergistic interplay of neurocomputing granular computation including fuzzy sets and rough sets and evolutionary methods It presents a unified view of CI in the context of software engineering The book addresses a number of crucial issues what is CI what role does it play in software development how are CI elements built into successive phases of the software life cycle and what is the role played by CI in quantifying fundamental features of software artifacts With contributions from leading researchers and practitioners the book provides the reader with a wealth of new concepts and approaches complete algorithms in depth case studies and thought provoking exercises The topics coverage include neurocomputing granular as well as evolutionary computing object oriented analysis and design in software engineering There is also an extensive bibliography *Computational Intelligence Applications for Software Engineering Problems* Parma Nand,Nitin Rakesh,Arun Prakash Agrawal,Vishal Jain,2023-02-10 This new volume explores the computational intelligence techniques necessary to carry out different software engineering tasks Software undergoes various stages before deployment such as requirements elicitation software designing software project planning software coding and software testing and maintenance Every stage is bundled with a number of tasks or activities to be performed Due to the large and complex nature of software these tasks can become costly and error prone This volume aims to help meet these challenges by presenting new research and practical applications in intelligent techniques in the field of software engineering Computational Intelligence Applications for Software Engineering Problems discusses techniques and presents case studies to solve engineering challenges using machine learning deep learning fuzzy logic based computation statistical modeling invasive weed meta heuristic algorithms artificial intelligence the DevOps model time series forecasting models and more **Computational Intelligence in Software Quality Assurance** Scott Dick,Abraham Kandel,2005 Software systems surround us Software is a critical component in everything from the family car through electrical power systems to military equipment As software plays an

ever increasing role in our lives and livelihoods the quality of that software becomes more and more critical However our ability to deliver high quality software has not kept up with those increasing demands The economic fallout is enormous the US economy alone is losing over US 50 billion per year due to software failures This book presents new research into using advanced artificial intelligence techniques to guide software quality improvements The techniques of chaos theory and data mining are brought to bear to provide new insights into the software development process Written for researchers and practitioners in software engineering and computational intelligence this book is a unique and important bridge between these two fields **Software Engineering with Computational Intelligence** Jonathan Lee,2013-11-11 It is not an exaggeration to view Professor Lee s book Software Engineer ing with Computational Intelligence or SECI for short as a pioneering contribution to software engineering Breaking with the tradition of treat ing uncertainty imprecision fuzziness and vagueness as issues of peripheral importance SECI moves them much closer to the center of the stage It is ob vious though still not widely accepted that this is where these issues should be since the real world is much too complex and much too ill defined to lend itself to categorical analysis in the Cartesian spirit As its title suggests SECI employs the machineries of computational intel ligence CI and more or less equivalently soft computing SC to deal with the foundations and principal issues in software engineering Basically CI and SC are consortia of methodologies which collectively provide a body of con cepts and techniques for conception design construction and utilization of intelligent systems The principal constituents of CI and SC are fuzzy logic neurocomputing evolutionary computing probabilistic computing chaotic computing and machine learning The leitmotif of CI and SC is that in general better performance can be achieved by employing the constituent methodologies of CI and SC in combination rat her than in a stand alone mode In what follows I will take the liberty of focusing my attention on fuzzy logic and fuzzy set theory and on their roles in software engineering But first a couple of points of semantics which are in need of clarification Computational Intelligence In Software Engineering, Advances In Fuzzy Systems: Applications And Theory James F Peters,Witold Pedrycz,1998-12-24 This unique volume is the first publication on software engineering and computational intelligence CI viewed as a synergistic interplay of neurocomputing granular computation including fuzzy sets and rough sets and evolutionary methods It presents a unified view of CI in the context of software engineering The book addresses a number of crucial issues what is CI what role does it play in software development how are CI elements built into successive phases of the software life cycle and what is the role played by CI in quantifying fundamental features of software artifacts With contributions from leading researchers and practitioners the book provides the reader with a wealth of new concepts and approaches complete algorithms in depth case studies and thought provoking exercises The topics coverage include neurocomputing granular as well as evolutionary computing object oriented analysis and design in software engineering There is also an extensive bibliography **Computational Intelligence Techniques and Their Applications to Software Engineering Problems** Ankita Bansal,Abha Jain,Sarika

Jain,Vishal Jain,Ankur Choudhary,2020-09-27 Computational Intelligence Techniques and Their Applications to Software Engineering Problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization cost estimation reliability assessment defect prediction maintainability and quality prediction size estimation vulnerability prediction test case selection and prioritization and much more The concepts of expert systems case based reasoning fuzzy logic genetic algorithms swarm computing and rough sets are introduced with their applications in software engineering The field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets Aimed at graduate students and researchers in computer science engineering software engineering information technology this book Covers various aspects of in depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta heuristic algorithms designed to provide better and optimized solutions Illustrates applications including software requirement prioritization software cost estimation reliability assessment software defect prediction and more Highlights swarm intelligence based optimization solutions for software testing and reliability problems **Software Engineering with Computational Intelligence** Taghi M. Khoshgoftaar,2012-12-06 The constantly evolving technological infrastructure of the modem world presents a great challenge of developing software systems with increasing size complexity and functionality The software engineering field has seen changes and innovations to meet these and other continuously growing challenges by developing and implementing useful software engineering methodologies Among the more recent advances are those made in the context of software portability formal verification techniques software measurement and software reuse However despite the introduction of some important and useful paradigms in the software engineering discipline their technological transfer on a larger scale has been extremely gradual and limited For example many software development organizations may not have a well defined software assurance team which can be considered as a key ingredient in the development of a high quality and dependable software product Recently the software engineering field has observed an increased integration or fusion with the computational intelligence Cl field which is comprised of primarily the mature technologies of fuzzy logic neural networks genetic algorithms genetic programming and rough sets Hybrid systems that combine two or more of these individual technologies are also categorized under the Cl umbrella Software engineering is unlike the other well founded engineering disciplines primarily due to its human component designers developers testers etc factor The highly non mechanical and intuitive nature of the human factor characterizes many of the problems associated with software engineering including those observed in development effort estimation software quality and reliability prediction software design and softwaretesting Computational Intelligence in Software Modeling Vishal Jain,Jyotir Moy Chatterjee,Ankita Bansal,Utku Kose,Abha Jain,2022-02-21 Researchers

academicians and professionals expone in this book their research in the application of intelligent computing techniques to software engineering As software systems are becoming larger and complex software engineering tasks become increasingly costly and prone to errors Evolutionary algorithms machine learning approaches meta heuristic algorithms and others techniques can help the effi ciency of software engineering **Computational Intelligence and Quantitative Software Engineering** Witold Pedrycz,Giancarlo Succi,Alberto Sillitti,2016-01-14 In a down to the earth manner the volume lucidly presents how the fundamental concepts methodology and algorithms of Computational Intelligence are efficiently exploited in Software Engineering and opens up a novel and promising avenue of a comprehensive analysis and advanced design of software artifacts It shows how the paradigm and the best practices of Computational Intelligence can be creatively explored to carry out comprehensive software requirement analysis support design testing and maintenance Software Engineering is an intensive knowledge based endeavor of inherent human centric nature which profoundly relies on acquiring semiformal knowledge and then processing it to produce a running system The knowledge spans a wide variety of artifacts from requirements captured in the interaction with customers to design practices testing and code management strategies which rely on the knowledge of the running system This volume consists of contributions written by widely acknowledged experts in the field who reveal how the Software Engineering benefits from the key foundations and synergistically existing technologies of Computational Intelligence being focused on knowledge representation learning mechanisms and population based global optimization strategies This book can serve as a highly useful reference material for researchers software engineers and graduate students and senior undergraduate students in Software Engineering and its sub disciplines Internet engineering Computational Intelligence management operations research and knowledge based systems *Artificial Intelligence Applications for Improved Software Engineering Development: New Prospects* Meziane, Farid,Vadera, Sunil,2009-07-31 This book provides an overview of useful techniques in artificial intelligence for future software development along with critical assessment for further advancement Provided by publisher **Computational Intelligence Applications for Software Engineering Problems** Parma Nand,Nitin Rakesh,Arun Prakash Agrawal,Vishal Jain,2023-02-10 This new volume explores the computational intelligence techniques necessary to carry out different software engineering tasks Software undergoes various stages before deployment such as requirements elicitation software designing software project planning software coding and software testing and maintenance Every stage is bundled with a number of tasks or activities to be performed Due to the large and complex nature of software these tasks can become costly and error prone This volume aims to help meet these challenges by presenting new research and practical applications in intelligent techniques in the field of software engineering Computational Intelligence Applications for Software Engineering Problems discusses techniques and presents case studies to solve engineering challenges using machine learning deep learning fuzzy logic based computation statistical modeling invasive weed meta heuristic algorithms artificial intelligence the

DevOps model time series forecasting models and more *Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2012* Roger Lee,2012-08-14 The purpose of the 13th International Conference on Computer and Information Science SNPD 2012 held on August 8 10 2012 in Kyoto Japan was to bring together researchers and scientists businessmen and entrepreneurs teachers and students to discuss the numerous fields of computer science and to share ideas and information in a meaningful way Our conference officers selected the best 17 papers from those papers accepted for presentation at the conference in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rounds of rigorous review The conference organizers selected 17 outstanding papers from SNPD 2012 all of which you will find in this volume of Springer s Studies in Computational Intelligence **Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing** Roger Lee,Naohiro Ishii,2009-04-30 The purpose of the 10th ACIS International Conference on Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing SNPD rd 2009 held in Daegu Korea on May 27 29 2009 the 3 International Workshop st on e Activity IWEA 2009 and the 1 International Workshop on Enterprise Architecture Challenges and Responses WEACR 2009 is to aim at bringing together researchers and scientist businessmen and entrepreneurs teachers and students to discuss the numerous fields of computer science and to share ideas and information in a meaningful way Our conference officers selected the best 24 papers from those papers accepted for presentation at the conference in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rounds of rigorous review In chapter 1 Igor Crk and Chris Gniady propose a network aware energy m agement mechanism that provides a low cost solution that can significantly reduce energy consumption in the entire system while maintaining responsiveness of local interactive workloads Their dynamic mechanisms reduce the decision delay before the disk is spun up reduce the number of erroneous spin ups in local wo stations decrease the network bandwidth and reduce the energy consumption of individual drives In chapter 2 Yoshihito Saito and Tokuro Matsuo describe a task allocation mechanism and its performance concerning with software developing They run simulations and discuss the results in terms of effective strategies of task allocation **Computational Intelligence Techniques and Their Applications to Software Engineering Problems** Ankita Bansal,Abha Jain,Sarika Jain,Vishal Jain,Ankur Choudhary,2020-09-27 Computational Intelligence Techniques and Their Applications to Software Engineering Problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization cost estimation reliability assessment defect prediction maintainability and quality prediction size estimation vulnerability prediction test case selection and prioritization and much more The concepts of expert systems case based reasoning fuzzy logic genetic algorithms swarm computing and rough sets are introduced with their applications in software engineering The field of knowledge discovery is explored using neural

networks and data mining techniques by determining the underlying and hidden patterns in software data sets Aimed at graduate students and researchers in computer science engineering software engineering information technology this book Covers various aspects of in depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta heuristic algorithms designed to provide better and optimized solutions Illustrates applications including software requirement prioritization software cost estimation reliability assessment software defect prediction and more Highlights swarm intelligence based optimization solutions for software testing and reliability problems *Second International Workshop on Computational Intelligence in Software Engineering (CISE 2012).* ,2012

Computational Intelligence in Software Modeling Vishal Jain,Jyotir Moy Chatterjee,Ankita Bansal,Utku Kose,Abha Jain,2022-02-21 Researchers academicians and professionals expone in this book their research in the application of intelligent computing techniques to software engineering As software systems are becoming larger and complex software engineering tasks become increasingly costly and prone to errors Evolutionary algorithms machine learning approaches meta heuristic algorithms and others techniques can help the effi ciency of software engineering **Software and Network Engineering** Roger Lee,2012-04-27 The series Studies in Computational Intelligence SCI publishes new developments and advances in the various areas of computational intelligence quickly and with a high quality The intent is to cover the theory applications and design methods of computational intelligence as embedded in the fields of engineering computer science physics and life science as well as the methodologies behind them The series contains monographs lecture notes and edited volumes in computational intelligence spanning the areas of neural networks connectionist systems genetic algorithms evolutionary computation artificial intelligence cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems Critical to both contributors and readers are the short publication time and world wide distribution this permits a rapid and broad dissemination of research results The purpose of the first ACIS International Symposium on Software and Network Engineering held on December 19 20 2012 on the Seoul National University campus Seoul Korea is to bring together scientist engineers computer users students to share their experiences and exchange new ideas and research results about all aspects theory applications and tools of software network engineering and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The symposium organizers selected the best 12 papers from those papers accepted for presentation at the symposium in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review The symposium organizers selected the best 12 papers from those papers accepted for presentation at the symposium in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review *2009 International Conference on*

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