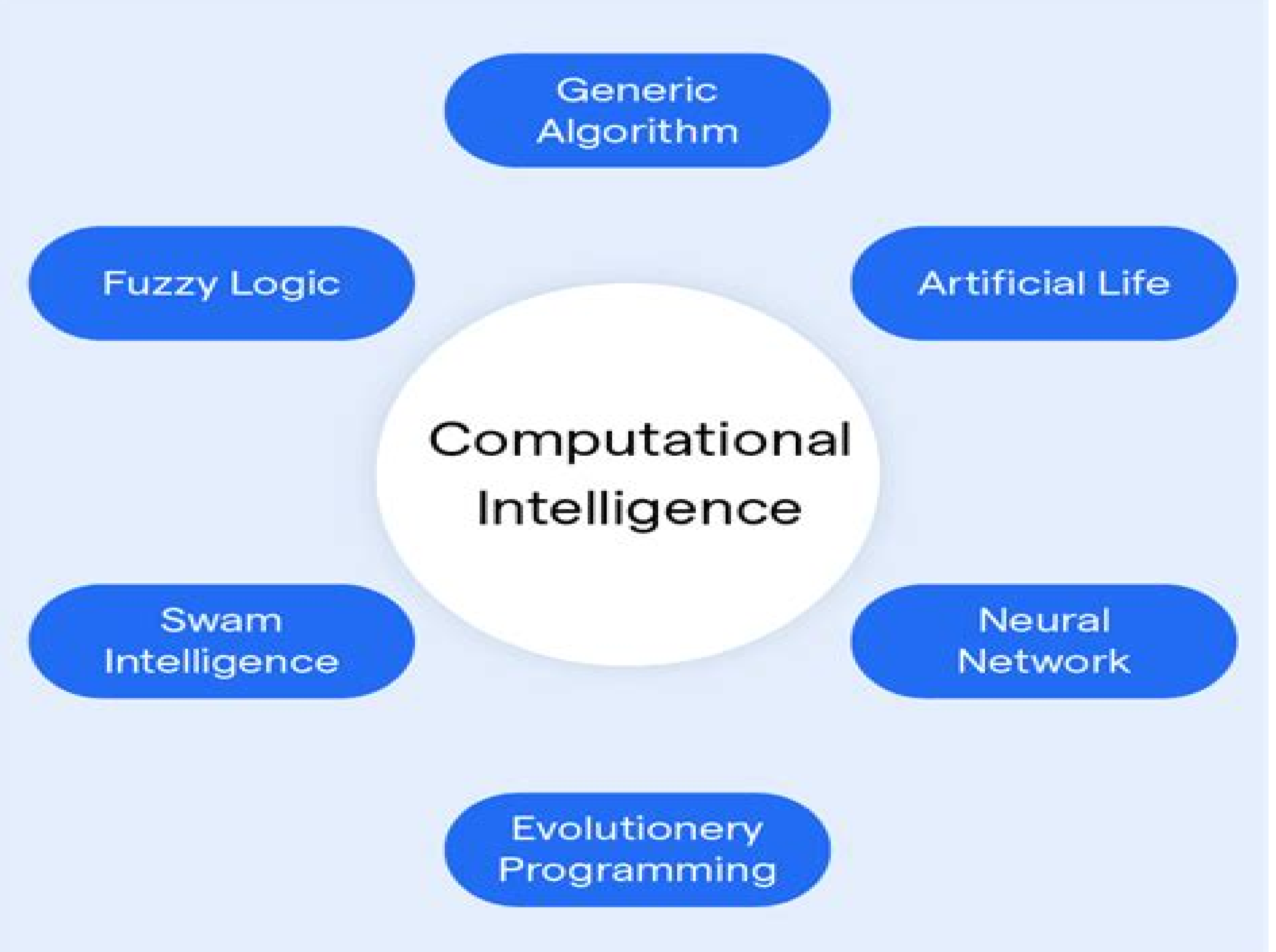
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Software Engineering With Computational Intelligence

Ankita Bansal,Abha Jain,Sarika Jain,Vishal Jain,Ankur Choudhary

Software Engineering With Computational Intelligence:

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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 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 **Computational Intelligence in Software Engineering** Witold Pedrycz,Mehmet Aksit,2004 **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

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 In Software Quality Assurance Scott Dick,Abraham Kandel,2005-10-19 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 *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 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 **Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing** Roger Lee,2014-09-02 This edited book presents scientific results of 15th IEEE ACIS International Conference on Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing SNPD 2014 held on June 30 July 2 2014 in Las Vegas Nevada USA The aim of this conference was to bring together scientists engineers computer users and students to share their experiences and exchange new ideas research results about all aspects theory applications and tools of computer and information science and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected the 13 outstanding papers from those papers accepted for presentation at the conference 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 *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 *Analysis of Software Engineering Data Using Computational Intelligence Techniques* Gabriel Jarillo Alvarado,2003 **Software Engineering Research, Management and Applications** Roger Lee,2019-07-24 This edited book presents the scientific outcomes of the 17th International Conference on Software Engineering Artificial Intelligence Research Management and Applications SERA 2019 held on May 29 31 2019 in Honolulu Hawaii The aim of the conference was to bring together researchers and scientists businessmen and entrepreneurs teachers engineers computer users and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way This book includes 13 of the conference s most promising papers featuring recent research in software engineering management and applications

Second International Workshop on Computational Intelligence in Software Engineering (CISE 2012). ,2012

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 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

2009 International Conference on Computational Intelligence and Software Engineering IEEE Staff,2009

Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2011 Roger Lee,2013-08-03 The purpose of the 12th Conference Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing SNPD 2011 held on July 6 8 2011 in Sydney Australia was to bring together scientists engineers computer users and students to share their experiences and exchange new ideas and research results about all aspects theory applications and tools of computer and information sciences and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected 14 outstanding papers from SNPD 2011 all of which you will find in this volume of Springer s Studies in Computational Intelligence **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

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