



Computational Intelligence Applications for Software Engineering Problems

Parma Nand | Nitin Rakesh | Arun Prakash Agrawal | Vishal Jain
Editors



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Software Engineering With Computational Intelligence

Taghi M. Khoshgoftaar



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, 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 covered include neurocomputing, granular, as well as evolutionary computing, object oriented analysis and design in software engineering. There is also an extensive bibliography. **Computational Intelligence in Software Engineering** Witold Pedrycz, Mehmet Aksit, 2004 *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 covered include neurocomputing, granular, as well as evolutionary computing, object oriented analysis and design in software engineering. There is also an extensive bibliography. 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.

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.

Software Engineering with Computational Intelligence Jonathan Lee, 2013-11-11

It is not an exaggeration to view Professor Lee's book *Software Engineering with Computational Intelligence* or SECI for short as a pioneering contribution to software engineering. Breaking with the tradition of treating uncertainty, imprecision, fuzziness and vagueness as issues of peripheral importance, SECI moves them much closer to the center of the stage. It is obvious 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 intelligence (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 concepts 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 rather 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 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 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 efficiency of software engineering

Software Engineering with Computational Intelligence Taghi M. Khoshgoftaar, 2012-12-06 The constantly evolving technological infrastructure of the modern 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 CI 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 CI 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 software testing

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