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Computational intelligence methods in simulation and modeling of structures: A state-of-the-art review using bibliometric maps

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The modeling and simulation of structural systems is a task that requires high precision and reliable results to ensure the stability and safety of construction projects of all kinds. For many years now, structural engineers have relied on hard computing strategies for solving engineering problems, such as the application of the Finite Element Method (FEM) for structural analysis. However, despite the great success of FEM, as the complexity and difficulty of modern constructions increases, the numerical procedures required for their appropriated design become much harder to process using traditional methods. Therefore, other alternatives such as Computational Intelligence (CI) techniques are gaining substantial popularity among professionals and researchers in the field. In this study, a data-driven bibliometric analysis is presented with the aim to investigate the current research directions and the applications of CI-based methodologies for the simulation and modeling of structures. The presented study is centered on a self-mined database of nearly 8000 publications from 1990 to 2022 with topics related to the aforementioned field. The database is processed to create various two-dimensional bibliometric maps and analyze the relevant research metrics. From the maps, some of the trending topics and research gaps are identified based on an analysis of the keywords. Similarly, the most contributing authors and their collaborations are assessed through an analysis of the corresponding citations. Finally, based on the discovered research directions, various recent publications are selected from the literature and discussed in detail to set examples of innovative CI-based applications for the modeling and simulation of structures. The full methodology that is used to obtain the data and generate the bibliometric maps is presented in detail as a means to provide a clearer interpretation of the bibliometric analysis results.

KEYWORDS

computational intelligence, structural analysis, soft computing, finite element method, structural engineering, bibliometric analysis, bibliometric maps

The State Of The Art In Computational Intelligence

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The State Of The Art In Computational Intelligence:

The State of the Art in Computational Intelligence Peter Sincak, Jan Vascak, Vladimir Kvasnicka, Radko Mesiar, 2012-11-14 Computational Intelligence is a very dynamic domain of modern information society which integrates fields such as neural networks fuzzy systems evolutionary computation and intelligent systems in general The book presents papers from the Euro International Symposium on Computational Intelligence held in Kosice Slovak Republic in August 2000 It contains theoretical studies along with a chapter on applications and case studies One of the main results of the symposium is that the combination of various techniques into hybrid intelligent systems will be very important for the development of intelligent information systems in the 21st century The book also contains interesting forewords written by L A Zadeh D E Goldberg and K Fukushima

Advanced Computational Intelligence in Healthcare-7 Ilias Maglogiannis, Sheryl Brahnam, Lakhmi C. Jain, 2020-03-23 This book presents state of the art works and systematic reviews in the emerging field of computational intelligence CI in electronic health care The respective chapters present surveys and practical examples of artificial intelligence applications in the areas of Human Machine Interface HMI and affective computing machine learning big health data and visualization analytics computer vision and medical image analysis The book also addresses new and emerging topics in CI for health care such as the utilization of Social Media SM and the introduction of new intelligent paradigms in the security and privacy domains which are critical for the health sector The chapters while of course not exhaustively addressing all the possible aspects of the aforementioned areas are indicative of the dynamic nature of interdisciplinary research being pursued Accordingly the book is intended not only for researchers in the respective fields but also for medical and administrative personnel working in the health sector as well as managers and stakeholders responsible for making strategic decisions and defining public health policies

Applied Computational Intelligence and Soft Computing in Engineering Khalid, Saifullah, 2017-09-13 Although computational intelligence and soft computing are both well known fields using computational intelligence and soft computing in conjunction is an emerging concept This combination can effectively be used in practical areas of various fields of research Applied Computational Intelligence and Soft Computing in Engineering is an essential reference work featuring the latest scholarly research on the concepts paradigms and algorithms of computational intelligence and its constituent methodologies such as evolutionary computation neural networks and fuzzy logic Including coverage on a broad range of topics and perspectives such as cloud computing sampling in optimization and swarm intelligence this publication is ideally designed for engineers academicians technology developers researchers and students seeking current research on the benefits of applying computational intelligence techniques to engineering and technology

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Intelligence to Reduce Risk and Improve Effectiveness ,1983 Computer Literature Bibliography United States. National Bureau of Standards,1965 **2001 IEEE International Symposium on Computational Intelligence in Robotics and Automation** Hong Zhang,2001 Applications and Science of Neural Networks, Fuzzy Systems, and Evolutionary Computation III Bruno Bosacchi,David B. Fogel,James C. Bezdek,2000 *Neuro-Symbolic Artificial Intelligence: The State of the Art* Md Kamruzzaman Sarker,2022-01-15 Neuro symbolic AI is an emerging subfield of Artificial Intelligence that brings together two hitherto distinct approaches Neuro refers to the artificial neural networks prominent in machine learning symbolic refers to algorithmic processing on the level of meaningful symbols prominent in knowledge representation In the past these two fields of AI have been largely separate with very little crossover but the so called third wave of AI is now bringing them together This book Neuro Symbolic Artificial Intelligence The State of the Art provides an overview of this development in AI The two approaches differ significantly in terms of their strengths and weaknesses and from a cognitive science perspective there is a question as to how a neural system can perform symbol manipulation and how the representational differences between these two approaches can be bridged The book presents 17 overview papers all by authors who have made significant contributions in the past few years and starting with a historic overview first seen in 2016 With just seven months elapsed from invitation to authors to final copy the book is as up to date as a published overview of this subject can be Based on the editors own desire to understand the current state of the art this book reflects the breadth and depth of the latest developments in neuro symbolic AI and will be of interest to students researchers and all those working in the field of Artificial Intelligence *Proceedings* Baldomir Zajc,Franc Solina,1991 **Conference Proceedings** ,1999 *Applied Artificial Intelligence Reporter* ,1986 **Recent Trends in Computational Intelligence Enabled Research** Siddhartha Bhattacharyya,Paramartha Dutta,Debabrata Samanta,Anirban Mukherjee,Indrajit Pan,2021-07-31 The field of computational intelligence has grown tremendously over that past five years thanks to evolving soft computing and artificial intelligent methodologies tools and techniques for envisaging the essence of intelligence embedded in real life observations Consequently scientists have been able to explain and understand real life processes and practices which previously often remain unexplored by virtue of their underlying imprecision uncertainties and redundancies and the unavailability of appropriate methods for describing the incompleteness and vagueness of information represented With the advent of the field of computational intelligence researchers are now able to explore and unearth the intelligence otherwise insurmountable embedded in the systems under consideration Computational Intelligence is now not limited to only specific computational fields it has made inroads in signal processing smart manufacturing predictive control robot navigation smart cities and sensor design to name a few **Recent Trends in Computational Intelligence Enabled Research** Theoretical Foundations and Applications explores the use of this computational paradigm across a wide range of applied domains which handle meaningful information Chapters investigate a broad spectrum of the applications of computational intelligence

across different platforms and disciplines expanding our knowledge base of various research initiatives in this direction This volume aims to bring together researchers engineers developers and practitioners from academia and industry working in all major areas and interdisciplinary areas of computational intelligence communication systems computer networks and soft computing Provides insights into the theory algorithms implementation and application of computational intelligence techniques Covers a wide range of applications of deep learning across various domains which are researching the applications of computational intelligence Investigates novel techniques and reviews the state of the art in the areas of machine learning computer vision soft computing techniques

Artificial Intelligence Techniques in Language Learning Rex William Last,1989 Computational Intelligence Applied to Financial Price Prediction Javier Sandoval,2013 The following work aims to review the most important research from computational intelligence applied to the financial price prediction problem The article is organized as follows The first section summarizes the role of predictability in the Neoclassical financial world This section also criticizes the zero predictability framework The second section presents the main computational intelligence techniques applied to financial price prediction The third section depicts common features of revised works

Proceedings V. Cantoni,Concettina Guerra,C. Guerra,2000 Proceedings of a September 2000 conference Besides the traditional topics reflecting advances in smart sensing parallel and distributed computing real time systems and massively parallel architectures contributions emphasize developments in architectures for image understanding sound recognition and other senses configurable and FPGA based perception architecture coprocessors and Instructor Set Architecture extensions inference engines and machine intelligence architectures rule based systems and knowledge based machines architectural performance evaluation distributed processing for perception systems and sensor fusion internet imaging parallel video servers languages software environments and programming tools and neural network and genetic algorithm applications in perception Lacks a subject index Annotation copyrighted by Book News Inc Portland OR

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