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Mihai Nadin is a scholar and researcher in electrical engineering, computer science, aesthetics, semiotics, human-computer interaction, computational design, post-industrial society, and anticipatory systems. His publications on these topics number over 200, and he has lectured throughout the world. Currently Mihai Nadin is a professor at the University of Texas at Dallas, appointed to the Ashbel Smith Professorship in Interactive Arts, Technology, and Computer Science. He is director of the Ins

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This book covers new developments and advances in the field of Computational Strategies for next-generation computing. The contributing authors share diverse perspectives on and extensive discussions of issues concerning the theory, applications, and future prospects. Addressing computing methodologies, hardware information systems and networks, this interdisciplinary book will appeal to all scholars with an interest in computing methodologies, hardware information systems and networks.

This book constitutes the refereed proceedings of the 9th International Conference on Computational Linguistics and Intelligent Text Processing, CICLing 2008, held in Haifa, Israel, in February 2008. The 52 revised full papers presented together with 4 invited papers were carefully reviewed and selected from numerous submissions. The papers cover all current issues in computational linguistics research and present intelligent text processing applications. The papers are organized in topical sections on language resources, morphology and syntax, semantics and discourse, word sense disambiguation and named entity recognition, anaphora and co-reference, machine translation and parallel corpora, natural language generation, speech recognition, information retrieval and question answering, text classification, text summarization, as well as spell checking and authoring aid.

This two-volume set (CCIS 905 and CCIS 906) constitutes the refereed proceedings of the Second International Conference on Advances in Computing and Data Sciences, ICACDS 2018, held in Dehradun, India, in April 2018. The 110 full papers were carefully reviewed and selected from 598 submissions. The papers are centered around topics like advanced computing, data sciences, distributed systems organizing principles, development frameworks and environments, software verification and validation, computational complexity and cryptography, machine learning theory, database theory, probabilistic representations.

The EURO-C conference series (Split 1984, Zell am See 1990, Innsbruck 1994, Badgastein 1998, St. Johann im Pongau 2003, Mayrhofen 2006, Schladming 2010, St. Anton am Arlberg 2014, and Bad Hofgastein 2018) brings together researchers and practising engineers concerned with theoretical, algorithmic and validation aspects associated with computational simulations of concrete and concrete structures. Computational Modelling of Concrete Structures reviews and discusses research advancements and the applicability and robustness of methods and models for reliable analysis of complex concrete, reinforced concrete and pre-stressed concrete structures in engineering practice. The contributions cover both computational mechanics and computational modelling aspects of the analysis and design of concrete and concrete structures: Multi-scale cement and concrete research: experiments and modelling Aging concrete: from very early ages to decades-long durability Advances in material modelling of plain concrete Analysis of reinforced concrete structures Steel-concrete interaction, fibre-reinforced concrete, and masonry Dynamic behaviour: from seismic retrofit to impact simulation Computational Modelling of Concrete Structures is of special interest to academics and researchers in computational concrete mechanics, as well as industry experts in complex nonlinear simulations of concrete structures.

Computing the Brain provides readers with an integrated view of current informatics research related to the field of neuroscience. This book clearly defines the new work being done in neuroinformatics and offers information on resources available on the Web to researchers using this new technology. It contains chapters that should appeal to a multidisciplinary audience with introductory chapters for the nonexpert reader. Neuroscientists will find this book an excellent introduction to informatics technologies and the use of these technologies in their research. Computer scientists will be interested in exploring how these technologies might benefit the neuroscience community. An integrated view of neuroinformatics for a multidisciplinary audience Explores and explains new work being done in neuroinformatics Cross-disciplinary with chapters for computer scientists and neuroscientists An excellent tool for graduate students coming to neuroinformatics research from diverse disciplines and for neuroscientists seeking a comprehensive introduction to the subject Discusses, in-depth, the structuring of masses of data by a variety of computational models Clearly defines computational neuroscience - the use of computational techniques and metaphors to investigate relations between neural structure and function Offers a guide to resources and algorithms that can be found on the Web Written by internationally renowned experts in the field

Biomolecular computing has emerged as an interdisciplinary field that draws - gether chemistry, computer science, mathematics, molecular biology, and physics. Our knowledge on DNA nanotechnology and biomolecular computing increases exponentially with every passing year. The international meeting on DNA Based Computers has been a forum where scientists with different backgrounds, yet sharing a common interest in biomolecular computing, meet and present their latest results. Continuing this tradition, the 8th International Meeting on DNA Based Computers (DNA8) focuses on the current theoretical and experimental results with the greatest impact. Papers and poster presentations were sought in all areas that relate to b- molecular computing, including (but not restricted to): algorithms and appli- tions, analysis of laboratory techniques/theoretical models, computational p- cesses in vitro and in vivo, DNA-computing-based biotechnological applications, DNA devices, error evaluation and correction, in vitro evolution, models of biomolecular computing (using DNA and/or other molecules), molecular - sign, nucleic acid chemistry, and simulation tools. Papers and posters with new experimental results were particularly encouraged. Authors who wished their work to be considered for either oral or poster presentation were asked to select from one of two submission "tracks": - Track A - Full Paper - Track B - One-Page Abstract For authors with late-breaking results, or who were submitting their manuscript to a scientific journal, a one-page abstract, rather than a full paper, could be submitted in Track B. Authors could (optionally) include a preprint of their full paper, for consideration only by the program committee.

This book constitutes the refereed proceedings of the Second International Conference on Computability in Europe, CiE 2006, held in Swansea, UK, June/July 2006. The book presents 31 revised full papers together with 30 invited papers, including papers corresponding to 8 plenary talks and 6 special sessions on proofs and computation, computable analysis, challenges in complexity, foundations of programming, mathematical models of computers and hypercomputers, and Gödel centenary: Gödel's legacy for computability.

This thesis addresses one of the most fundamental challenges for modern science: how can the brain as a network of neurons process information, how can it create and store internal models of our world, and how can it infer conclusions from ambiguous data? The author addresses these questions with the rigorous language of mathematics and theoretical physics, an approach that requires a high degree of abstraction to transfer results of wet lab biology to formal models. The thesis starts with an in-depth description of the state-of-the-art in theoretical neuroscience, which it subsequently uses as a basis to develop several new and original ideas. Throughout the text, the author connects the form and function of neuronal networks. This is done in order to achieve functional performance of biological brains by transferring their form to synthetic electronics substrates, an approach referred to as neuromorphic computing. The obvious aspect that this transfer can never be perfect but necessarily leads to performance differences is substantiated and explored in detail. The author also introduces a novel interpretation of the firing activity of neurons. He proposes a probabilistic interpretation of this activity and shows by means of formal derivations that stochastic neurons can sample from internally stored probability distributions. This is corroborated by the author's recent findings, which confirm that biological features like the high conductance state of networks enable this mechanism. The author goes on to show that neural sampling can be implemented on synthetic neuromorphic circuits, paving the way for future applications in machine learning and cognitive computing, for example as energy-efficient implementations of deep learning networks. The thesis offers an essential resource for newcomers to the field and an inspiration for scientists working in theoretical neuroscience and the future of computing.

This book is the first one that presents both the new elaborated method of the flow measurement, named by the author the "Flow Measurement Based on Reaction Force", including its specific "reaction measurement system", which ensures its practical implementation, and the new basic types of flowmeters, configured according to it, named "reaction flowmeters". These achievements were the result of the first implementation, in the last two years, of the Unitary Synthesis and Design Method of Flowmeters (European Patent EN the 3364159, granted in 2020). Due to its universality and flexibility, the "Flow Measurement Based on Reaction Force" keeps the same configuration of the reaction measurement system for the design of any new basic types of reaction flowmeters. The book presents the reaction flowmeters by following the logical sequence of their structural (implicitly functioning) evolution, which rendered the logical systematic way followed for their configuration. The book details successively (main analytical, constructive, and functional features) the individual (single) reaction flowmeters, configured both without and with moving parts, respectively, the specific connections of two single reaction flowmeters, named "extended reaction flowmeters" and the bypass type reaction flowmeters. All of these flowmeters can be used for both liquids and gases. Presenting the practical results and using the knowledge of the unitary bases of the flowmeters, identified by the previous book, Unitary Analysis, Synthesis, and Classification of Flow Meters (2018), this new publication is written for all specialists in the field of flow measurement and instrumentation, and especially for flowmeters manufacturers and R&D specialists, in addition to the teaching staff and students at such specialised, technical, and high-level universities. The book is also an efficient tool for predictable design of new types of reaction flowmeters, by following the logical steps (questions) already taken in the configuration of the reaction flowmeters presented, and by diversifying with new answers given to them.

(1998) 2. Antoniou, I., Calude, C.S., Dinneen, M.J. (eds.) Unconventional Models of Computation,UMC2K:ProceedingsoftheSecondInternationalConference.

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