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Power system computing with neural networks is one of the fastest growing fields in the history of power system engineering. Since 1988, a considerable amount of work has been done in investigating computing capabilities of neural networks and understanding their relevance to providing efficient solutions for outstanding complex problems of the electric power industry. A principal objective of a power utility is to provide electric energy to its customers in a secure, reliable and economic manner. Toward this aim, utility personnel are engaged in a variety of activities in areas of supervisory control and monitoring, evaluation of operating conditions, operation planning and scheduling, system development, equipment testing, etc. Over the past decades significant advances have been made in the development of new concepts, design of hardware and software systems, and implementation of solid-state devices which all contributed to the steadily improving power system performance that we are experiencing today. Advanced information processing technologies played an important role in these development efforts. Members of the Special Interest Group for Power Engineering of the INNS recognized the need for bringing together leading researchers in the field of neurocomputing with experts from power utilities and manufacturing companies to assess the current state of affairs and to explore the directions of further research and practice. This book is based on The Summer Workshop on Neural Network Computing for the Electric Power Industry which brought together approximately forty specialists with backgrounds in power engineering, system operation and planning, neural network theory and AI systems design. An informal and highly inspiring atmosphere of the workshop facilitated open discussion and exchange of expertise between the participants. These proceedings contain the papers presented at the 4th International Symposium on Engineering Turbulence Modelling and Measurements held at Ajaccio, Corsica, France from 24-26 May 1999. It follows three previous conferences on the topic of engineering turbulence modelling and measurements. The purpose of this series of symposia is to provide a forum for presenting and discussing new developments in the area of turbulence modelling and measurements, with particular emphasis on engineering-related problems. Turbulence is still one of the key issues in tackling engineering flow problems. As powerful computers and accurate numerical methods are now available for solving the flow equations, and since engineering applications nearly always involve turbulence effects, the reliability of CFD analysis depends more and more on the performance of the turbulence models. Successful simulation of turbulence requires the understanding of the complex physical phenomena involved and suitable models for describing the turbulent momentum, heat and mass transfer. For the understanding of turbulence phenomena, experiments are indispensable, but they are equally important for providing data for the development and testing of turbulence models and hence for CFD software validation. In 2007 The Design, Automation and Test in Europe (DATE) conference celebrated its tenth anniversary. As a tribute to the chip and system-level design and design technology community, this book presents a compilation of the three most influential papers of each year. This provides an excellent historical overview of the evolution of a domain that contributed substantially to the growth and competitiveness of the circuit electronics and systems industry. This comprehensive text introduces readers to the most commonly used multivariate techniques at an introductory, non-technical level. By focusing on the fundamentals, readers are better prepared for more advanced applied pursuits, particularly on topics that are most critical to the behavioral, social, and educational sciences. Analogies betwe This comprehensive reference on software development quality assurance addresses all four dimensions of quality: specifications, design, construction and conformance. It focuses on quality from both the micro and macro view. From a micro view, it details the aspect of building-in quality at the component level to help ensure that the overall deliverable has ingrained quality. From a macro view, it addresses the organizational level activities that provide an environment conducive to fostering quality in the deliverables as well as developing a culture focused on quality in the organization. Mastering Software Quality Assurance also explores a process driven approach to quality, and provides the information and guidance needed for implementing a process quality model in your organization. It includes best practices and valuable tools and techniques for software developers. Key Features • Provides a comprehensive, inclusive view of software quality • Tackles the four dimensions of quality as applicable to software development organizations • Offers unique insights into achieving quality at the component level • Deals comprehensively with all aspects of measuring software quality • Explores process quality from the standpoint of implementation rather than from the appraiser/assessor point of view • Delivers a bird's eye view of the ISO and CMMI models, and describes necessary steps for attaining conformance to those models 1 This volume contains the research papers and invited papers presented at the Third International Conference on Tests and Proofs (TAP 2009) held at ETH Zurich, Switzerland, during July 2-3, 2009.

The TAP conference is devoted to the convergence of proofs and tests. It combines ideas from both sides for the advancement of software quality. To prove the correctness of a program is to demonstrate, through impeccable mathematical techniques, that it has no bugs; to test a program is to run it with the expectation of discovering bugs. The two techniques seem contradictory: if you have proved your program, it is fruitless to comb it for bugs; and if you are testing it, that is surely a sign that you have given up on any hope of proving its correctness. Accordingly, proofs and tests have, since the onset of software engineering research, been pursued by distinct communities using rather different techniques and tools. And yet the development of both approaches leads to the discovery of common issues and to the realization that each may need the other. The emergence of model checking has been one of the first signs that contradiction may yield to complementarity, but in the past few years an increasing number of research efforts have encountered the need for combining proofs and tests, dropping earlier dogmatic views of incompatibility and taking instead the best of what each of these software engineering domains has to offer. Are you considering a career in computer science or perhaps trying to learn C++ on your own? Look no further - this complete programming guide will provide you with enough practice such that you will become a proficient user in no time. How is this book different from others? Many, many examples are included. Projects and Exercises cover a wide variety of topics so that readers get more practice. Value at a fair price - you shouldn't have to break your wallet to learn programming. Quizzes are included so that students can practice their skills.

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If you want to learn C++ while being tested with quizzes, scroll up and order your copy today.

Dynamics of Civil Structures, Volume 2: Proceedings of the 39th IMAC, A Conference and Exposition on Structural Dynamics, 2021, the second volume of nine from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures, including papers on: Structural Vibration Humans & Structures Innovative Measurement for Structural Applications Smart Structures and Automation Modal Identification of Structural Systems Bridges and Novel Vibration Analysis Sensors and Control

In this groundbreaking analysis of personality type, bestselling author of *Better Than Before* and *The Happiness Project* Gretchen Rubin reveals the one simple question that will transform what you do at home, at work, and in life. During her multibook investigation into understanding human nature, Gretchen Rubin realized that by asking the seemingly dry question "How do I respond to expectations?" we gain explosive self-knowledge. She discovered that based on their answer, people fit into Four Tendencies: Upholders, Questioners, Obligers, and Rebels. Our Tendency shapes every aspect of our behavior, so using this framework allows us to make better decisions, meet deadlines, suffer less stress, and engage more effectively. More than 600,000 people have taken her online quiz, and managers, doctors, teachers, spouses, and parents already use the framework to help people make significant, lasting change. The Four Tendencies hold practical answers if you've ever thought:

- People can rely on me, but I can't rely on myself.
- How can I help someone to follow good advice?
- People say I ask too many questions.
- How do I work with someone who refuses to do what I ask—or who keeps telling me what to do?

With sharp insight, compelling research, and hilarious examples, *The Four Tendencies* will help you get happier, healthier, more productive, and more creative. It's far easier to succeed when you know what works for you. This book includes a selection of thoroughly refereed papers accepted at the Satellite Events of the 17th International Semantic Web Conference, ISWC 2018, held in Monterey, CA in October 2018. The key areas addressed by these events include the core Semantic Web technologies such as knowledge graphs and scalable knowledge base systems, ontology design and modelling, semantic deep learning and statistics. Furthermore, several novel applications of semantic technologies to the topics of Internet of Things (IoT), healthcare, social media and social good are discussed. Finally, important topics at the interface of the Semantic Web technologies and their human users are addressed, including visualization and interaction paradigms for Web Data as well as crowdsourcing applications. With the advent of agile methodologies, testing is becoming the responsibility of more and more team members. In this new book, noted testing expert Dustin imparts the best of her collected wisdom. She presents 50 specific tips for a better testing program. These 50 tips are divided into ten sections, and presented so as to mirror the chronology of a software project. A thrilling mini Murder Most Unladylike mystery, specially written and published for World Book Day 2020. Daisy Wells and Hazel Wong are best friends, schoolgirls - and detectives. And wherever they go, mysteries will find them... While on a seaside holiday with their friends George and Alexander, the Detective Society discover the body of famous swimmer Antonia Braithwaite - nicknamed The Pearl - on the beach.

Everyone presumes that she drowned accidentally - but how could such a famous swimmer have struggled to swim? Even more mysteriously, three guests at the girls' hotel all wanted Antonia dead... Can the Detective Society solve this mystery? Or will they sink under the pressure? Praise for the Murder Most Unladylike mysteries: 'This is that rare thing: a series that gets better with every book' Telegraph 'Thrilling' Guardian 'A total delight' Metro This book constitutes the refereed proceedings of the 15th International Conference on the Quality of Information and Communications Technology, QUATIC 2022, held in Talavera de la Reina, Spain, in September 2022. The 18 full papers and 3 short papers were carefully reviewed and selected from 54 submissions. The papers are organized in topical sections: ?smart and advanced systems; verification and validation; skills and education; industrial experiences and applications; safety, security and privacy. Dieser Tagungsband enthält die Beiträge des 20. Workshops "Computational Intelligence" des Fachausschusses 5.14 der VDI/VDE-Gesellschaft für Mess- und Automatisierungstechnik (GMA) der vom 1.-3. Dezember 2010 im Haus Bommerholz (Dortmund) stattfand. Die Schwerpunkte waren Methoden, Anwendungen und Tools für- Fuzzy-Systeme, - Künstliche Neuronale Netze, - Evolutionäre Algorithmen und- Data-Mining-Verfahren sowie der Methodenvergleich anhand von industriellen und Benchmark-Problemen. Engineering Interactive Systems 2007 is an IFIP working conference that brings together researchers and practitioners interested in strengthening the scientific foundations of user interface design, examining the relationship between software engineering (SE) and human-computer interaction (HCI) and on how user-centered design (UCD) could be strengthened as an essential part of the software engineering process. Engineering Interactive Systems 2007 was created by merging three conferences: • HCSE 2007 – Human-Centered Software Engineering held for the first time. The HCSE Working Conference is a multidisciplinary conference entirely dedicated to advancing the basic science and theory of human-centered software systems engineering. It is organized by IFIP WG 13.2 on Methodologies for User-Centered Systems Design. • EHCI 2007 – Engineering Human Computer Interaction was held for the tenth time. EHCI aims to investigate the nature, concepts, and construction of user interfaces for software systems. It is organized by IFIP WG 13.4/2.7 on User Interface Engineering. • DSV-IS 2007 – Design, Specification and Verification of Interactive Systems was held for the 13th time. DSV-IS provides a forum where researchers working on model-based techniques and tools for the design and development of interactive systems can come together with practitioners and with those working on HCI models and theories. This book constitutes the refereed proceedings of the 278th IFIP WG 6.1 International Conference on Testing Software and Systems, ICTSS 2016, held in Graz, Austria, in October 2016. The 12 revised full papers and 6 short papers presented were carefully reviewed and selected from 41 submissions. The papers are organized in topical sections on testing methodologies, heuristics and non-determinism in testing, practical applications, and short contributions. Soon after its launch, Ant succeeded in taking the Java world by storm, becoming the most widely used tool for building applications in Java environments. Like most popular technologies, Ant quickly went through a series of early revision cycles. With each new version, more functionality was added, and more complexity was introduced. Ant evolved from a simple-to-learn build tool into a full-fledged testing and deployment environment. Ant: The Definitive Guide has been reworked, revised and expanded upon to reflect this evolution. It documents the new ways that Ant is being applied, as well as the array of optional tasks that Ant supports. In fact, this new second edition covers everything about this extraordinary build management tool from downloading and installing, to using Ant to test code. Here are just a few of the features you'll find detailed in this comprehensive, must-have guide: Developing conditional builds, and handling error conditions Automatically retrieving source code from version control systems Using Ant with XML files Using Ant with JavaServer Pages to build Web applications Using Ant with Enterprise JavaBeans to build enterprise applications Far exceeding its predecessor in terms of information and detail, Ant: The Definitive Guide, 2nd Edition is a must-have for Java developers unfamiliar with the latest advancements in Ant technology. With this book at your side, you'll soon be up to speed on the premiere tool for cross-platform development. Author Steve Holzner is an award-winning author who's been writing about Java topics since the language first appeared; his books have sold more than 1.5 million copies worldwide. This book is for Software Engineering enthusiasts working in the field of Regression test suite design and implementation. Test Architects who are keen to apply Machine Learning to test suite data will find this book useful In the last decades it has become clear that the transport of gas and water inside the mixed-wettable gas diffusion medium (GDL) plays a significant role for the improved understanding and optimization of the polymer electrolyte membrane fuel cells (PEMFC). In the present thesis the influence of liquid water and gas on the transport properties of gas diffusion media of polymer electrolyte membrane fuel cells (PEMFC) is examined numerically and experimentally. The different arising transport mechanisms and their influence as well as their representation in theoretical models (especially REV-based Darcy models) are presented. Moreover, an approach for modelling and simulation of the water distribution inside mixed-wettable porous media, especially gas diffusion layers, is discussed. To this end, a thermodynamical-based approach is chosen - the interactions between gaseous, liquid, and solid (carbon and PTFE) phases are treated with the help of a stationary scheme based on the interfacial energies which have to be minimized. For the optimization task itself the (parallel) simulated annealing approach is chosen and discussed. In addition algorithms for the generation and discretization of the virtual porous structures are described. Based on the results the modelling of constitutive relationships and transport parameters depending on water and PTFE content is performed. Besides that experiments for the

measurement of those relationships are developed. A special focus is on the precise compression of the GDL sample and the influence on capillary pressure-saturation relationship, relative permeabilities, and effective diffusivities. Different apparatus for in- and through-plane measurements are developed. At the end the derived transport parameters and relationships are applied to a REV-based Darcy model which is compared with an integral experiment. The experimental setup is motivated by the counter-current flow regime of liquid water and gas at the cathode side of the PEMFC. It has been demonstrated that Darcy-flow based models for porous media are also applicable to thin technical porous layers. The Fifth International Workshop on Security (IWSEC 2010) was held at Kobe International Conference Center, Kobe, Japan, November 22–24, 2010. The workshop was co-organized by CSEC, a special interest group concerned with the computer security of the Information Processing Society of Japan (IPSJ) and ISEC, a technical group concerned with the information security of The Institute of Electronics, Information and Communication Engineers (IEICE). The excellent Local Organizing Committee was led by the IWSEC 2010 General Co-chairs, Hiroaki Kikuchi and Toru Fujiwara. This year IWSEC 2010 had three tracks, the Foundations of Security (Track I), Security in Networks and Ubiquitous Computing Systems (Track II), and Security in Real Life Applications (Track III), and the review and selection processes for these tracks were independent of each other. We received 75 paper submissions including 44 submissions for Track I, 20 submissions for Track II, and 11 submissions for Track III. We would like to thank all the authors who submitted papers. Each paper was reviewed by at least three reviewers. In addition to the Program Committee members, many external reviewers joined the review process from their particular areas of expertise. We were fortunate to have this energetic team of experts, and are grateful to all of them for their hard work. This hard work included very active discussions; the discussion phase was almost as long as the initial individual reviewing. The review and discussions were supported by a very nice Web-based system, iChair. We would like to thank its developers. Following the review phases, 22 papers including 13 papers for Track I, 6 papers for Track II, and 3 papers for Track III were accepted for publication in this volume of Advances in Information and Computer Security. This book is one of three volumes entitled "ECARP-European Computational Aerodynamics Research Project", which was supported by the European Union in the Aeronautics Area of the Industrial and Materials Technology Programme. This volume contains optimization techniques for a number of inviscid and viscous problems like drag reduction, inverse, multipoint, wing-pylon-nacelle and riblets (Part A); and methodologies for solving the Navier Stokes equations on parallel architectures for compressible viscous flows in two and three dimensions (Part B). The main objective of this book is to disseminate information about cost effective methodologies for practical design problems and parallel CFD to be used by computer scientists and multidisciplinary engineers. Master interviewer Bálint András Varga poses three probing questions to renowned contemporary composers about their work, and carefully renders their answers in their own words. This is the sixth conference in the series which started in 1981 in Paris, followed by conferences held in Zurich (1984), Rio de Janeiro (1987), Barcelona (1991), and Raleigh (1993). The main objective of this IFIP conference series is to provide a platform for the exchange of recent and original contributions in communications systems in the areas of performance analysis, architectures, and applications. There are many exciting trends and developments in the communications industry, several of which are related to advances in Asynchronous Transfer Mode (ATM), multimedia services, and high speed protocols. It is commonly believed in the communications industry that ATM represents the next generation of networking. Yet, there are a number of issues that has been worked on in various standards bodies, government and industry research and development labs, and universities towards enabling high speed networks in general and ATM networks in particular. Reflecting these trends, the technical program of the Sixth IFIP W.G. 6.3 Conference on Performance of Computer Networks consists of papers addressing a wide range of technical challenges and proposing various state of the art solutions to a subset of them. The program includes 25 papers selected by the program committee out of 57 papers submitted. The American legal system today is the most significant in the world, yet until the publication of Fundamentals of American Law, there has been no book that provides both the basic rules on the theoretical understanding necessary to comprehend. This book is not simply the work of a single author, but a collection of especially written essays, each by an expert in the field, all of whom are on the faculty of New York University School of Law, which is recognized as one of the elite law schools in America and which offers this book as an element of its unique Global Law School Programme. The book is written specifically for foreign lawyers and law students who have a need to deal with American Law generally, but are not seeking to become specialists in any one area. For them, it is vital to understand the basic principles of a wide range of American legal fields so they can act as informed intermediaries between their public or private clients and their American counterparts. The book not only provides the reader with a solid foundation in American law, but will also serve as a basic reference book for the fundamentals, even as some of the details change over the years. Although initially conceived to fill a void for foreign lawyers, the book is also ideally suited for others who have a significant need to understand the basic principles of American Law and to interact with American lawyers. For this reason it will be an ideal course text for students of business, accountancy, political science, or public administration, where the enquiring student will constantly find intersections with the law. The book is more than a compendium of legal principles. Each chapter explains not only what the law is, but why it is that way. It sets forth the policy considerations in institutional factors that produce a particular law so the reader can make an independent judgement about its

wisdom and perhaps its adaptability to other cultures. This unique volume introduces and discusses the methods of validating computer simulations in scientific research. The core concepts, strategies, and techniques of validation are explained by an international team of pre-eminent authorities, drawing on expertise from various fields ranging from engineering and the physical sciences to the social sciences and history. The work also offers new and original philosophical perspectives on the validation of simulations. Topics and features: introduces the fundamental concepts and principles related to the validation of computer simulations, and examines philosophical frameworks for thinking about validation; provides an overview of the various strategies and techniques available for validating simulations, as well as the preparatory steps that have to be taken prior to validation; describes commonly used reference points and mathematical frameworks applicable to simulation validation; reviews the legal prescriptions, and the administrative and procedural activities related to simulation validation; presents examples of best practice that demonstrate how methods of validation are applied in various disciplines and with different types of simulation models; covers important practical challenges faced by simulation scientists when applying validation methods and techniques; offers a selection of general philosophical reflections that explore the significance of validation from a broader perspective. This truly interdisciplinary handbook will appeal to a broad audience, from professional scientists spanning all natural and social sciences, to young scholars new to research with computer simulations. Philosophers of science, and methodologists seeking to increase their understanding of simulation validation, will also find much to benefit from in the text.

Genetic Programming Theory and Practice III provides both researchers and industry professionals with the most recent developments in GP theory and practice by exploring the emerging interaction between theory and practice in the cutting-edge, machine learning method of Genetic Programming (GP). The contributions developed from a third workshop at the University of Michigan's Center for the Study of Complex Systems, where leading international genetic programming theorists from major universities and active practitioners from leading industries and businesses meet to examine and challenge how GP theory informs practice and how GP practice impacts GP theory. Applications are from a wide range of domains, including chemical process control, informatics, and circuit design, to name a few. In many countries, questions are being raised about the quality and value of educational research. This book explores the relationship between research and practice in education. It looks at the extent to which current practice could be said to be informed by knowledge or ideas generated by research and at the extent to which the use of current practices or the adoption of new ones are, or could be, supported by research evidence. Science education is used as a case study but the issues considered apply to the teaching and learning of any curriculum subject. The book draws on the findings of four inter-related research studies and considers: how research might be used to establish greater consensus about curriculum; how research can inform the design of assessment tools and teaching interventions; teachers' and other science educators' perceptions of the influence of research on their teaching practices and their students' learning; the extent to which evidence can show that an educational practice 'works'. Achieving Systems Safety contains papers presented at the twentieth annual Safety-critical Systems Symposium, held in Bristol, UK, in February 2012. The Symposium is for engineers, managers and academics in the field of system safety, across all industry sectors, so the papers making up this volume offer a wide-ranging coverage of current safety topics, and a blend of academic research and industrial experience. They include both recent developments in the field and discussion of open issues that will shape future progress. The topics covered by the 20 papers in this volume include vulnerabilities in global navigation satellite systems; safety culture and community; transport safety; cyber-attacks on safety-critical systems; improving our approach to systems safety; accidents; assessment, validation and testing; safety standards and safety levels. The book will be of interest to both academics and practitioners working in the safety-critical systems arena. The need for green technologies and solutions which will deliver the energy requirements of both the developed and developing world to support sustainability and protect the environment worldwide has never been more urgent. This book contains the proceedings of the 2nd International Conference on Green Energy, Environment and Sustainable Development (GEESD2021) which, due to the COVID-19 pandemic around the world and with the strict travel restrictions in China, was held as a hybrid conference (both physically and online via Zoom) in Shanghai, China on 26 and 27 June 2021. It provided an opportunity to bring together an international community of leading scientists, researchers, engineers and academics, as well as industrial professionals, to exchange and share their experiences and research results in the energy, environment and sustainable development sector. In total, 80 participants were able to exchange knowledge and discuss the latest developments in the field. GEESD2021 attracted more than 250 submissions, 88 of which were accepted after an extensive period of peer review by more than 100 reviewers and members of the program committee. These are included here, grouped into 3 sections, with 28 papers on sustainable energy; 34 on ecology; and 26 papers covering environmental pollution and protection. Offering an overview of the most up-to-date findings and technologies in the field of sustainable energy and environmental protection, the book will be of interest to all those working in this field. The present book contains contributions presented at the Fourth Symposium on Hybrid RANS-LES Methods, held in Beijing, China, 28-30 September 2011, being a continuation of symposia taking place in Stockholm (Sweden, 2005), in Corfu (Greece, 2007), and Gdansk (Poland, 2009). The contributions to the last two symposia were published as NNFM, Vol. 97 and Vol. 111. At the Beijing symposium, along with seven invited keynotes, another 46 papers (plus 5 posters) were presented addressing topics on Novel

turbulence-resolving simulation and modelling, Improved hybrid RANS-LES methods, Comparative studies of difference modelling methods, Modelling-related numerical issues and Industrial applications.. The present book reflects recent activities and new progress made in the development and applications of hybrid RANS-LES methods in general. No description available This book addresses the frontier advances in the theory and application of nature-inspired optimization techniques, including solving the quadratic assignment problem, prediction in nature-inspired dynamic optimization, the lion algorithm and its applications, optimizing the operation scheduling of microgrids, PID controllers for two-legged robots, optimizing crane operating times, planning electrical energy distribution systems, automatic design and evaluation of classification pipelines, and optimizing wind-energy power generation plants. The book also presents a variety of nature-inspired methods and illustrates methods of adapting these to said applications. Nature-inspired computation, developed by mimicking natural phenomena, makes a significant contribution toward the solution of non-convex optimization problems that normal mathematical optimizers fail to solve. As such, a wide range of nature-inspired computing approaches has been used in multidisciplinary engineering applications. Written by researchers and developers from a variety of fields, this book presents the latest findings, novel techniques and pioneering applications. Novel Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology and Automation, Telecommunications and Networking. Novel Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics includes selected papers from the conference proceedings of the International Conference on Industrial Electronics, Technology and Automation (IETA 2007) and International Conference on Telecommunications and Networking (TeNe 07) which were part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

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