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Computer Science An Overview *Benjamin-Cummings Publishing Company* **Now in its eighth edition, this book continues to provide a comprehensive, accessible, and up-to-date introduction to the dynamic field of computer science using a breadth-first approach. The table of contents and the text itself have been revised and expanded to reflect changes in the field, including the trend toward using Web and Internet Technology, the evolution of Objects, and the important growth in the field of databases. Specifically, chapter three from the previous edition has been expanded into two chapters. Chapter three will now only cover Operating Systems and the new chapter four will focus on Networks and the Internet. Anyone interested in gaining a thorough introduction to Computer Science. Computer Science An Overview** *Addison-Wesley Longman* **Computer Science: An Overview uses broad coverage and clear exposition to present a complete picture of the dynamic computer science field. Accessible to students from all backgrounds, Glenn Brookshear uses a language-independent context to encourage the development of a practical, realistic understanding of the field. An overview of each of the important areas of Computer Science (e.g. Networking, OS, Computer Architecture, Algorithms) provides students with a general level of proficiency for future courses. The Eleventh Edition features two new contributing authors (David Smith — Indiana University of PA; Dennis Brylow — Marquette University), new, modern examples, and updated coverage based on current technology. Computer Science An**

Overview *Pearson Higher Ed* **This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Computer Science: An Overview uses broad coverage and clear exposition to present a complete picture of the dynamic computer science field. Accessible to students from all backgrounds, Glenn Brookshear uses a language-independent context to encourage the development of a practical, realistic understanding of the field. An overview of each of the important areas of Computer Science (e.g. Networking, OS, Computer Architecture, Algorithms) provides students with a general level of proficiency for future courses. The Eleventh Edition features two new contributing authors (David Smith — Indiana University of PA; Dennis Brylow — Marquette University), new, modern examples, and updated coverage based on current technology. Proceedings of the 11th International Symposium on Computer Science in Sport (IACSS 2017)** *Springer* **This book provides an overview of current research in the fascinating, interdisciplinary field of computer science and sports. It includes papers from the 11th International Symposium on Computer Science in Sport (IACSS 2017), which took place in Constance, Germany, on September 6–9, 2017. The papers represent the state of the art in utilizing the latest developments in computer science to support coaches and athletes. The book covers a broad range of topics, reflecting the diversity of the field. It presents three categories of papers: those on concepts in informatics like modeling, virtual reality, simulation; those describing applications of computer science in sports like running, volleyball, water polo, and football; and contributions discussing the impact of computer science in sports federations and universities. Informatics in Schools. Fundamentals of Computer Science and Software Engineering 11th International Conference on Informatics in Schools: Situation, Evolution, and Perspectives, ISSEP 2018, St. Petersburg, Russia, October 10-12, 2018, Proceedings** *Springer* **This book constitutes the proceedings of the 11th International Conference on Informatics in Schools: Situation, Evolution and Perspectives, ISSEP 2018, held in St. Petersburg, Russia, in October 2018. The 29 full papers presented in this volume were carefully reviewed and selected from 74 submissions. They were organized in topical sections named: role of programming and algorithmics in informatics for pupils of all ages; national concepts of teaching informatics; teacher education in informatics; contests and competitions in informatics; socio-psychological aspects of teaching informatics; and computer tools in teaching and studying informatics. Evolutionary Based Solutions for Green Computing** *Springer* **Today's highly parameterized large-scale distributed computing systems may be composed of a large number of various components (computers, databases, etc) and must provide a wide range of services. The users of such systems, located at different (geographical or managerial) network cluster may have a limited access to the system's services and resources, and different, often conflicting, expectations and requirements. Moreover, the information and data processed in such dynamic environments may be incomplete, imprecise,**

fragmentary, and overloading. All of the above mentioned issues require some intelligent scalable methodologies for the management of the whole complex structure, which unfortunately may increase the energy consumption of such systems. An optimal energy utilization has reached to a point that many information technology (IT) managers and corporate executives are all up in arms to identify scalable solution that can reduce electricity consumption (so that the total cost of operation is minimized) of their respective large-scale computing systems and simultaneously improve upon or maintain the current throughput of the system. This book in its eight chapters, addresses the fundamental issues related to the energy usage and the optimal low-cost system design in high performance ``green computing'' systems. The recent evolutionary and general metaheuristic-based solutions for energy optimization in data processing, scheduling, resource allocation, and communication in modern computational grids, could and network computing are presented along with several important conventional technologies to cover the hot topics from the fundamental theory of the ''green computing'' concept and to describe the basic architectures of systems. This book points out the potential application areas and provides detailed examples of application case studies in low-energy computational systems. The development trends and open research issues are also outlined. All of those technologies have formed the foundation for the green computing that we know of today. Computer Science Logic 16th International Workshop, CSL 2002, 11th Annual Conference of the EACSL, Edinburgh, Scotland, UK, September *Springer* The Annual Conference of the European Association for Computer Science Logic, CSL 2002, was held in the Old College of the University of Edinburgh on 22–25 September 2002. The conference series started as a programme of Int- national Workshops on Computer Science Logic, and then in its sixth meeting became the Annual Conference of the EACSL. This conference was the sixteenth meeting and eleventh EACSL conference; it was organized by the Laboratory for Foundations of Computer Science at the University of Edinburgh. The CSL 2002 Programme Committee considered 111 submissions from 28 countries during a two week electronic discussion; each paper was refereed by at least three reviewers. The Committee selected 37 papers for presentation at the conference and publication in these proceedings. The Programme Committee invited lectures from Susumu Hayashi, Frank Neven, and Damian Niwinski;´ the papers provided by the invited speakers appear at the front of this volume. In addition to the main conference, two tutorials – 'Introduction to Mu- Calculi' (Julian Brad?eld) and 'Parametrized Complexity' (Martin Grohe) – were given on the previous day. Relations and Kleene Algebra in Computer Science 11th International Conference on Relational Methods in Computer Science, RelMiCS 2009, and 6th International Conference on Applications of Kleene Algebra, AKA 2009, Doha, Qatar, November 1-5, 2009, Proceedings *Springer* The book constitutes the joint refereed proceedings of the 11th International Conference on Relational Methods in Computer Science, RelMiCS 2009, and the 6th International

Conference on Applications of Kleene Algebras, AKA 2009, held in Doha, Qatar in November 2009. The 22 revised full papers presented together with 2 invited papers were carefully reviewed and selected from numerous submissions. The papers describe the calculus of relations and similar algebraic formalisms as methodological and conceptual tools with special focus on formal methods for software engineering, logics of programs and links to neighbouring disciplines. Their scope comprises relation relation algebras and Kleene algebras, related formalisms such as process algebras, fixed point calculi, idempotent semirings, quantales, allegories, dynamic algebras, cylindric algebras and their applications in areas such as verification, analysis and development of programs and algorithms relational formal methods such as B or Z, tabular methods, algebraic approaches to logics of programs, modal and dynamic logics, interval and temporal logics, algebraic semantics of programming languages , graph theory and combinatorial optimization, games, automata and language theory, mechanised and automated reasoning, decision procedures, spatio-temporal reasoning, knowledge acquisition, preference and scaling methods or information systems. Mathematical Foundations of Computer Science 2000 25th International Symposium, MFCS 2000 Bratislava, Slovakia, August 28 - September 1, 2000 Proceedings *Springer Science & Business Media* This volume contains papers selected for presentation at the Silver Jubilee 25th Symposium on Mathematical Foundations of Computer Science | MFCS 2000, held in Bratislava, Slovakia, August 28 { September 1, 2000. MFCS 2000 was organized under the auspices of the Minister of Education of the Slovak Republic, Milan Ft a cnik, by the Slovak Society for Computer Science, and the Comenius University in Bratislava, in cooperation with other institu- ons in Slovakia. It was supported by the European Association for Theoretical Computer Science, the European Research Consortium for Informatics and - thematics, and the Slovak Research Consortium for Informatics and Mathe- tics. The series of MFCS symposia, organized alternately in the Czech Republic, Poland, and Slovakia since 1972, has a well-established tradition. The MFCS symposia encourage high-quality research in all branches of theoretical computer science. Their broad scope provides an opportunity of bringing together spec- lists who do not usually meet at specialized conferences. The previous meetings took place in Jablonna, 1972; Strbsk e Pleso, 1973; Jadwisin, 1974; Mari ansk e L azn e, 1975; Gdansk, 1976; Tatransk a Lomnica, 1977; Zakopane, 1978; Olomouc, 1979; Rydzina, 1980; Strbsk e Pleso, 1981; Prague, 1984; Bratislava, 1986; C- lsbad, 1988; Porabk a-Kozubnik, 1989; Bansk a Bystrica, 1990; Kazimierz Dolny, 1991; Prague, 1992; Gdansk, 1993, Ko sice, 1994; Prague, 1995; Krak ow, 1996; Bratislava, 1997; Brno, 1998; and Szklarska Poreba, 1999. Introduction to PSpice Manual for Electric Circuits Using Orcad Release 9.2 The fourth edition of this work continues to provide a thorough perspctive of the subject, communicated through a clear explanation of the concepts and techniques of electric circuits. This edition was developed with keen attention to the learning needs of students. It includes illustrations that

have been redesigned for clarity, new problems and new worked examples. Margin notes in the text point out the option of integrating PSpice with the provided Introduction to PSpice; and an instructor's roadmap (for instructors only) serves to classify homework problems by approach. The author has also given greater attention to the importance of circuit memory in electrical engineering, and to the role of electronics in the electrical engineering curriculum. Trends in Functional Programming 11th International Symposium, TFP 2010, Norman, OK, USA, May 17-19, 2010. Revised Selected Papers *Springer Science & Business Media* This book constitutes the thoroughly refereed post-conference proceedings of the 11th International Symposium on Trends in Functional Programming, TFP 2010, held in Norman, OK, USA, in May 2010. The 13 revised full papers presented were carefully reviewed and selected from 26 submissions during two rounds of reviewing and improvement. The papers cover new ideas for refactoring, managing source-code complexity, functional language implementation, graphical languages, applications of functional programming in pure mathematics, type theory, multitasking and parallel processing, distributed systems, scientific modeling, domain specific languages, hardware design, education, and testing. Coalgebraic Methods in Computer Science 11th International Workshop, CMCS 2012, Colocated with ETAPS 2012, Tallinn, Estonia, March 31 -- April 1, 2012, Revised Selected Papers *Springer* This book constitutes the thoroughly refereed post-proceedings of the 11th International Workshop on Coalgebraic Methods in Computer Science, CMCS 2012, colocated with ETAPS 2012, held in Tallin, Estonia, in March/April 2012. The 10 revised full papers were carefully reviewed and selected from 23 submissions. Also included are three invited talks. The papers cover a wide range of topics in the theory, logics and applications of coalgebras. Advances in Computer Science - ASIAN 2006. Secure Software and Related Issues 11th Asian Computing Science Conference, Tokyo, Japan, December 6-8, 2006, Revised Selected Papers *Springer* Running to more than 360 pages, and complete with online files and updates, this book constitutes the thoroughly refereed post-proceedings of the 11th Asian Computing Science Conference, ASIAN 2006, held in Tokyo, Japan. The 17 revised full papers and 8 revised short papers presented together with 1 invited paper were carefully selected during two rounds of reviewing from 115 submissions. The papers cover theory, practice, applications, and experiences related to secure software. Introduction to Java Programming, Brief Version *Pearson* This text is intended for a 1-semester CS1 course sequence. The Brief Version contains the first 18 chapters of the Comprehensive Version. The first 13 chapters are appropriate for preparing the AP Computer Science exam. For courses in Java Programming. A fundamentals-first introduction to basic programming concepts and techniques Designed to support an introductory programming course, Introduction to Java Programming and Data Structures, Brief Version teaches you concepts of problem-solving and object-orientated programming using a fundamentals-first approach. As beginner programmers, you learn critical

problem-solving techniques then move on to grasp the key concepts of object-oriented, GUI programming, advanced GUI and Web programming using JavaFX. This course approaches Java GUI programming using JavaFX, which has replaced Swing as the new GUI tool for developing cross-platform-rich Internet applications and is simpler to learn and use. The 11th edition has been completely revised to enhance clarity and presentation, and includes new and expanded content, examples, and exercises. Also available with MyLab Programming. MyLab Programming(tm) is an online learning system designed to engage students and improve results. MyLab Programming consists of programming exercises correlated to the concepts and objectives in this book. Through practice exercises and immediate, personalized feedback, MyLab Programming improves the programming competence of beginning students who often struggle with the basic concepts of programming languages. Note: You are purchasing a standalone product; MyLab Programming does not come packaged with this content. Students, if interested in purchasing this title with MyLab Programming, ask your instructor to confirm the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MyLab Programming, search for: 0134694503 / 9780134694504 Introduction to Java Programming and Data Structures, Brief Version plus MyLab Programming with Pearson eText -- Access Card Package, 11/e Package consists of: 0134611039 /9780134611037 Introduction to Java Programming and Data Structures, Brief Version, 11/e 013467281X / 9780134672816 MyProgrammingLab with Pearson eText -- Access Card -- for Introduction to Java Programming and Data Structures, Comprehensive Version, 11/e Information Technology for Management: New Ideas and Real Solutions 14th Conference, AITM 2016, and 11th Conference, ISM 2016, held as Part of FedCSIS, Gdansk, Poland, September 11-14, 2016, Revised Selected Papers *Springer* This book constitutes revised selected papers from the 14th Conference on Advanced Information Technologies for Management, AITM 2016, and the 11th Conference on Information Systems Management, ISM 2016, held as part of the Federated Conference on Computer Science and Information Systems, FedCSIS, which took place in Gdansk, Poland, in September 2016. The 13 papers presented in this volume were carefully reviewed and selected from 51 submissions. They were organized in topical sections named: information technology and systems for knowledge management; information technology and systems for business transformation; and implementation and evaluation of information systems. Theory and Practice of Cryptography Solutions for Secure Information Systems *IGI Global* Information Systems (IS) are a nearly omnipresent aspect of the modern world, playing crucial roles in the fields of science and engineering, business and law, art and culture, politics and government, and many others. As such, identity theft and unauthorized access to these systems are serious concerns. Theory and Practice of Cryptography Solutions for Secure Information Systems explores current trends in IS security technologies,

techniques, and concerns, primarily through the use of cryptographic tools to safeguard valuable information resources. This reference book serves the needs of professionals, academics, and students requiring dedicated information systems free from outside interference, as well as developers of secure IS applications. This book is part of the Advances in Information Security, Privacy, and Ethics series collection. The British National Bibliography Concepts Of Programming Languages *Pearson Education India* Scientific and Technical Books in Print Computer Science Illuminated *Jones & Bartlett Publishers* This guide offers students an overview of computer science principles, and provides a solid foundation for those continuing their study in this dynamic and exciting discipline. New features of this edition include: a chapter on computer security providing readers with the latest information on preventing unauthorized access; types of malware and anti-virus software; protecting online information, including data collection issues with Facebook, Google, etc.; security issues with mobile and portable devices; a new section on cloud computing offering readers an overview of the latest way in which businesses and users interact with computers and mobile devices; a rewritten section on social networks including new data on Google+ and Facebook; updates to include HTML5; revised and updated Did You Know callouts are included in the chapter margins; revisions of recommendations by the ACM dealing with computer ethic issues. -- Computer Books and Serials in Print Introduction to Probability Models *Academic Press* Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous, and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poison processes. The remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in introductory probability theory or a course in elementary stochastic processes. New to this Edition: 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams Updated data, and a list of commonly used notations and equations, a robust ancillary package,

including a ISM, SSM, and test bank Includes SPSS PASW Modeler and SAS JMP software packages which are widely used in the field Hallmark features: Superior writing style Excellent exercises and examples covering the wide breadth of coverage of probability topics Real-world applications in engineering, science, business and economics Invitation To Computer Science 4/e Introduction to Java Programming and Data Structures *Pearson* Revised edition of: Introduction to Java programming / Y. Daniel Liang, Armstrong Atlantic State University. Tenth edition. Comprehensive version. 2015. Research in Computer Science and Its Applications 11th International Conference, CNRIA 2021, Virtual Event, June 17-19, 2021, Proceedings *Springer Nature* This book constitutes the refereed post-conference proceedings of the 11th EAI International Conference on Research in Computer science and its Applications, CNRIA 2021, held in June 2021. Due to COVID-19 pandemic the conference was held virtually. The 11 full papers presented were selected from 24 submissions and issue different problems in underserved and unserved areas. The papers are arranged in 3 tracks: data science and artificial intelligence; telecom and artificial intelligence; IoT and ICT applications. Security Solutions for Hyperconnectivity and the Internet of Things *IGI Global* The Internet of Things describes a world in which smart technologies enable objects with a network to communicate with each other and interface with humans effortlessly. This connected world of convenience and technology does not come without its drawbacks, as interconnectivity implies hackability. Security Solutions for Hyperconnectivity and the Internet of Things offers insights from cutting-edge research about the strategies and techniques that can be implemented to protect against cyber-attacks. Calling for revolutionary protection strategies to reassess security, this book is an essential resource for programmers, engineers, business professionals, researchers, and advanced students in relevant fields. Computational Science and Its Applications -- ICCSA 2013 13th International Conference, Ho Chi Minh City, Vietnam, July 24-27, 2013, Proceedings, Part I *Springer* The five-volume set LNCS 7971-7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications, ICCSA 2013, held in Ho Chi Minh City, Vietnam, in June 2013. Apart from the general track, ICCSA 2013 also include 33 special sessions and workshops, in various areas of computational sciences, ranging from computational science technologies, to specific areas of computational sciences, such as computer graphics and virtual reality. There are 46 papers from the general track, and 202 in special sessions and workshops. Resources in Education 11th National Computer Security Conference Proceedings, 17-20 October, 1988 Problems and New Solutions in the Boolean Domain *Cambridge Scholars Publishing* The Internet of Things is a great new challenge for the development of digital systems. In addition to the increasing number of classical unconnected digital systems, more people are regularly using new electronic devices and software that are controllable and usable by means of the internet. All such systems utilize the elementariness of Boolean values. A Boolean variable can carry only

two different Boolean values: FALSE or TRUE (0 or 1), and has the best interference resistance in technical systems. However, a Boolean function exponentially depends on the number of its variables. This exponential complexity is the cause of major problems in the process of design and realization of circuits. According to Moore's Law, the complexity of digital systems approximately doubles every 18 months. This requires comprehensive knowledge and techniques to solve complex Boolean problems. This book summarizes both new problems and solutions in the Boolean domain in solving such issues. Part 1 describes powerful new approaches in solving exceptionally complex Boolean problems. Efficient methods contribute to solving problems of extreme complexity. New algorithms and programs utilize the huge number of computing cores of the Graphical Processing Unit and improve the performance of calculations by several orders of magnitude. Part 2 represents several applications of digital systems. Due to the crucial role of the internet, both solutions and open problems regarding the security of these systems are discussed. The exploration of certain properties of such systems leads to a number of efficient solutions, which can be reused in a wide field of applications. Part 3 discusses the scientific basis of future circuit technologies, investigating the need for completely new design methods for the atomic level of quantum computers. This part also concerns itself with reversible circuits as the basis for quantum circuits and specifies important issues regarding future improvements. Cybernetics Perspectives in Systems Proceedings of 11th Computer Science On-line Conference 2022, Vol. 3 *Springer Nature* This book contains the refereed proceedings of the Cybernetics Perspectives in Systems session of the 11th Computer Science On-line Conference 2022 (CSOC 2022), which was held in April 2022 online. Papers on modern cybernetics and informatics in the context of networks and systems are an important component of current research issues. This volume contains an overview of recent method, algorithms and designs. Innovative Security Solutions for Information Technology and Communications 11th International Conference, SecITC 2018, Bucharest, Romania, November 8–9, 2018, Revised Selected Papers *Springer* This book constitutes the thoroughly refereed proceedings of the 11th International Conference on Security for Information Technology and Communications, SecITC 2018, held in Bucharest, Romania, in November 2018. The 35 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 70 submissions. The papers present advances in the theory, design, implementation, analysis, verification, or evaluation of secure systems and algorithms. Genetic Programming 11th European Conference, EuroGP 2008, Naples, Italy, March 26-28, 2008, Proceedings *Springer* The 11th European Conference on Genetic Programming, EuroGP 2008, took place in Naples, Italy from 26 to 28 March in the University of Naples Congress Centre with spectacular views over the Gulf of Naples. This volume contains the papers for the 21 oral presentations and 10 posters that were presented during this time. A diverse array of topics were covered re?ecting the current state of

research in the ?eld of Genetic Programming, including the latest work on representations, theory, operators and analysis, evolvable hardware, agents and numerous applications. A rigorous, double-blind peer review process was employed, with each s- mission reviewed by at least three members of the international Program C- mittee. In total 61 papers were submitted this year, making an acceptance rate of 34% for full papers, and an overall acceptance rate of 51% including posters. S- mission of papers and the reviewing process were greatly assisted by the use of the MyReview management software originally developed by Philippe Rigaux, Bertrand Chardon and other colleagues from the Universit´e Paris-Sud Orsay, France. We are especially grateful to Marc Schoenauer from INRIA, France for managing this system. Reviewers were asked to nominate keywords specifying their area of expertise, and these keywords were matched to those selected by the authors of the submitted papers with the assistance of the optimal assignment feature of the conference management software. Contemporary Challenges and Solutions for Mobile and Multimedia Technologies *IGI Global* Mobile computing and multimedia technologies continue to expand and change the way we interact with each other on a business and social level. With the increased use of mobile devices and the exchange of information over wireless networks, information systems are able to process and transmit multimedia data in various areas. Contemporary Challenges and Solutions for Mobile and Multimedia Technologies provides comprehensive knowledge on the growth and changes in the field of multimedia and mobile technologies. This reference source highlights the advancements in mobile technology that are beneficial for developers, researchers, and designers. New Computational Paradigms Changing Conceptions of What is Computable *Springer Science & Business Media* This superb exposition of a complex subject examines new developments in the theory and practice of computation from a mathematical perspective, with topics ranging from classical computability to complexity, from biocomputing to quantum computing. This book is suitable for researchers and graduate students in mathematics, philosophy, and computer science with a special interest in logic and foundational issues. Most useful to graduate students are the survey papers on computable analysis and biological computing. Logicians and theoretical physicists will also benefit from this book. Books in Print Knowledge, Information and Creativity Support Systems: Recent Trends, Advances and Solutions Selected Papers from KICSS'2013 - 8th International Conference on Knowledge, Information, and Creativity Support Systems, November 7-9, 2013, Kraków, Poland *Springer* This volume contains some carefully selected papers presented at the 8th International Conference on Knowledge, Information and Creativity Support Systems KICSS'2013, which was held in Kraków and Wieliczka, Poland in November 2013. In most cases the papers are extended versions with newer results added, representing virtually all topics covered by the conference. The KICSS'2013 focus theme, "Looking into the Future of Creativity and Decision Support Systems", clearly indicates that

the growing complexity calls for some deeper and insightful discussions about the future but, obviously, complemented with an exposition of modern present developments that have proven their power and usefulness. Following this theme, the list of topics presented in this volume include some future-oriented fields of research, such as anticipatory networks and systems, foresight support systems, relevant newly-emerging applications, exemplified by autonomous creative systems. Special attention was also given to cognitive and collaborative aspects of creativity. Problem Solving with Algorithms and Data Structures Using Python *Franklin Beedle & Assoc* THIS TEXTBOOK is about computer science. It is also about Python. However, there is much more. The study of algorithms and data structures is central to understanding what computer science is all about. Learning computer science is not unlike learning any other type of difficult subject matter. The only way to be successful is through deliberate and incremental exposure to the fundamental ideas. A beginning computer scientist needs practice so that there is a thorough understanding before continuing on to the more complex parts of the curriculum. In addition, a beginner needs to be given the opportunity to be successful and gain confidence. This textbook is designed to serve as a text for a first course on data structures and algorithms, typically taught as the second course in the computer science curriculum. Even though the second course is considered more advanced than the first course, this book assumes you are beginners at this level. You may still be struggling with some of the basic ideas and skills from a first computer science course and yet be ready to further explore the discipline and continue to practice problem solving. We cover abstract data types and data structures, writing algorithms, and solving problems. We look at a number of data structures and solve classic problems that arise. The tools and techniques that you learn here will be applied over and over as you continue your study of computer science. Proceedings of the Eleventh International Conference on Management Science and Engineering Management *Springer* This book is organized in 2 volumes and 6 parts. Part I is Big Data Analytics, which is about new advances of analysis, statistics, coordination and data mining of big data; Part II is Information Systems Management, which is about the development of big data information system or cloud platform. Part III is Computing Methodology with Big Data, which is about the improvements of traditional computation technologies in the background of big data; Part IV is Uncertainty Decision Making, which is about the decision making methods with various uncertain information, such as fuzzy, random, rough, gray, unascertained. Part V is Intelligence Algorithm. Part VI is Data Security, which is a particularly important aspect in the modern management environment. Recent Trends in Computer Networks and Distributed Systems Security Second International Conference, SNDS 2014, Trivandrum, India, March 13-14, 2014. Proceedings *Springer* This book constitutes the refereed proceedings of the Second International Conference on Security in Computer Networks and Distributed Systems, SNDS 2014, held in Trivandrum, India, in

March 2014. The 32 revised full papers presented together with 9 short papers and 8 workshop papers were carefully reviewed and selected from 129 submissions. The papers are organized in topical sections on security and privacy in networked systems; multimedia security; cryptosystems, algorithms, primitives; system and network security; short papers. The workshop papers were presented at the following workshops: Second International Workshop on Security in Self-Organising Networks (Self Net 2014); Workshop on Multidisciplinary Perspectives in Cryptology and Information Security (CIS 2014); Second International Workshop on Trust and Privacy in Cyberspace (Cyber Trust 2014).