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This book focuses on massive access to the cellular internet of things (IoT). Both theory and technique are addressed, with more weight placed on the latter. This is achieved by providing in-depth studies on a number of central topics such as channel state information acquisition, user clustering, superposition coding, and successive interference cancellation. Four typical application scenarios are examined in detail, namely the stationary IoT device scenario, frequency division duplex-based low-mobility IoT device scenario, time-division duplex-based IoT device scenario, and high-mobility IoT device scenario. The comprehensive and systematic treatment of key techniques in massive access to the cellular IoT is one of the major features of the book, which is particularly suited for readers who are interested in finding practical solutions for the cellular IoT. As such, it will benefit researchers, engineers, and graduate students in the fields of information engineering, telecommunications engineering, computer engineering, etc. This book brings together the latest research achievements from signal processing and related disciplines, consolidating existing and proposed directions in DSP-based knowledge extraction and information fusion. The book includes contributions presenting both novel algorithms and existing applications, emphasizing on-line processing of real-world data. Readers discover applications that solve biomedical, industrial, and environmental problems. This book deals with some basic thermodynamic and transport properties of fluids and solids that are of interest in engineering applications. Various notions about the basic structure of matter, fundamental concepts of our physical world and the conditions of equilibrium between different phases of matter are discussed in the first part of the book. The macroscopic properties of fluids and solids are explained in the latter part. The book is written for first-year university students in engineering. Therefore, simple derivations and clear explanations have been preferred to detailed

theoretical treatment. Illustrative problems, spaced throughout the text, demonstrate the application of various concepts and facilitate a better understanding of the theory. The text provides a sound first treatment of many properties of fluids and solids of interest in all the engineering disciplines. A timely addition to the understanding of IMT-Advanced, this book places particular emphasis on the new areas which IMT-Advanced technologies rely on compared with their predecessors. These latest areas include Radio Resource Management, Carrier Aggregation, improved MIMO support and Relaying. Each technique is thoroughly described and illustrated before being surveyed in context of the LTE-Advanced standards. The book also presents state-of-the-art information on the different aspects of the work of standardization bodies (such as 3GPP and IEEE), making global links between them. Explores the latest research innovations to assess the future of the LTE standard Covers the latest research techniques for beyond IMT-Advanced such as Coordinated multi-point systems (CoMP), Network Coding, Device-to-Device and Spectrum Sharing Contains key information for researchers from academia and industry, engineers, regulators and decision makers working on LTE-Advanced and beyond Field programmable gate arrays (FPGAs) are an increasingly popular technology for implementing digital signal processing (DSP) systems. By allowing designers to create circuit architectures developed for the specific applications, high levels of performance can be achieved for many DSP applications providing considerable improvements over conventional microprocessor and dedicated DSP processor solutions. The book addresses the key issue in this process specifically, the methods and tools needed for the design, optimization and implementation of DSP systems in programmable FPGA hardware. It presents a review of the leading-edge techniques in this field, analyzing advanced DSP-based design flows for both signal flow graph- (SFG-) based and dataflow-based implementation, system on chip (SoC) aspects, and future trends and challenges for FPGAs. The automation of the techniques for component architectural synthesis, computational models, and the reduction of energy consumption to help improve FPGA performance, are given in detail. Written from a system level design perspective and with a DSP focus, the authors present many practical application examples of complex DSP implementation, involving: high-performance computing e.g. matrix operations such as matrix multiplication; high-speed filtering including finite impulse response (FIR) filters and wave digital filters (WDFs); adaptive filtering e.g. recursive least squares (RLS) filtering; transforms such as the fast Fourier transform (FFT). FPGA-based Implementation of Signal Processing Systems is an important reference for practising engineers and researchers working on the design and development of DSP systems for radio, telecommunication, information, audio-visual and security applications. Senior level electrical and computer engineering graduates taking courses in signal processing or digital signal processing shall also find this volume of interest. This book constitutes the refereed proceedings of the Second International Conference on Evolutionary Multi-Criterion Optimization, EMO 2003, held in Faro, Portugal, in April 2003. The 56 revised full papers presented were carefully reviewed and selected from a total of 100 submissions. The papers are organized in topical sections on objective handling and problem decomposition, algorithm improvements, online adaptation, problem construction, performance analysis and comparison, alternative methods, implementation, and applications. The primary purpose of this book is to depict the main features of the classical problem of universals in order to provide a better understanding of the various suggestions made by the moderns towards the solution of that problem. The work is not historical; however, since knowledge of the history of the problem is essential for understanding the import of the new approach, references are given to classical theories and interpretations are offered without any pretension that they are either exhaustive or final. I have tried to argue that the problem, though often appearing in metaphysical guise, is, in fact, part of the more general problem of semantics, i.e., the relation between words and the world. The medieval theory that universals are the meaning of general words is linked here with a recent theory that the meaning of a word is explainable in terms of its function and not in terms of its putative denotation. What comes of this fusion is this: that if the medieval theory that universals are the meaning of general words is in any way credible, then to know the meaning of such words requires close attention to their functions on the ground that words in general do not mirror the world, rather they are tools used to change it. Printed Edition of the Special Issue Published in Entropy In this book, a wide range of different topics related to analytical as well as numerical solutions of problems related to scattering, propagation, radiation, and emission in different medium are discussed. Design of several devices and their measurements aspects are introduced. Topics related to microwave region as well as Terahertz and quasi-optical region are considered. Bi-isotropic metamaterial in optical region is investigated. Interesting numerical methods in frequency domain and time domain for scattering, radiation, forward as well as reverse problems and microwave imaging are summarized. Therefore, the book will satisfy different tastes for engineers interested for example in microwave engineering, antennas, and numerical methods. The growth paradigm or the economic growth generally been presented as a positive, limitless and good for social problems. The term was hardly touched in pre-capitalism by any academic research. With the rise of capitalism and industrial revolution it became an important tool to measure production quantitatively and qualitatively. Industrialisation also encouraged the expansion of trade and gradual breakdown of the pre-capitalist order in 18th century in Britain. The spread of market had facilitated the specialisation, encouraging division of labour. Whilst for The Classical Political Economists; Adam Smith, David Ricardo and Thomas Malthus; economic growth is self-reinforcing. Marx pointed out importance of forces and relations of production and significance of social classes within it (Marx, 1863). Smith, Ricardo and Malthus were writing at a time when capitalist development was expanding fast and growth was a central in the process. The gradual impact of the West on the rest of world became part of a wider process of change in the World Economy. European capital increased its domination of the world trade through expansionist commercial policies (Wallerstein, 1979). The economic growth encouraged commerce. The necessity to export, and other technological changes formed part of the reason for the decline of feudalism. This transition from feudalism to capitalism began in the West and soon made an impact on the rest of the World. T Farhang Morady, Hakan Kapucu, Ömer Yalçınkaya (Development & Growth: Economic Impacts of Globalization) 12 In 1932 Simon Kuznets, the US economist identified Gross Domestic Product (GDP) to measure the national output of a country within a period. It has continued to be an important indicator to measure economic growth, but it has also been under considerable criticisms. For example; GDP treats resources as income without excluding depletion or depression of the resources. Moreover, GDP has been criticised for disregarding income distribution. Despite all the criticism, GDP has been the most significant indicator of growth and development. With the Post War-II reconstruction of devastated countries and in order to kick-start the World Economy, the state in both developed and developing counties became the important agency to facilitate economic growth. The establishment of the Bretton Woods institutions, the Keynesian model of government intervention and the US implementation of “New Deal” facilitated growth. This was deliberate strategy to reconstruct and create networks of international cooperation. This was pointed out by President Truman in 1949: A program of development based on the concepts of democratic fair-dealing. All countries, including our own, will greatly benefit from a constructive program for the better use of the World's human and natural resources (Truman, 1949). This meant the reinforcement and need to distribute the 'Benefits' of capitalist form of development, more widely, against the planned economy sustained by the Soviet Union. The economist such as Joseph Schumpeter pointed to the possibility that capitalist growth, if it is sustained, could abolish poverty (Schumpeter, 1954, pp66-68). Whilst development meant rapid industrialisation, GDP became a key policy objective for the policy makers and governments around the world, not just in the Soviet Union but the Western Capitalist World, to set targets for their Growth Rate. The end of the Cold War in the 1980s, for some, meant triumph of Neoliberal Capitalism. The others talked of trade liberalization; free movement of capital and the development of information technology, facilitating the relocation of businesses across the world. (Ohmae, 1995). Friedman suggested that globalization is the Inevitable; Integration of markets, nation-states and technologies ... enabling individuals, corporations and nation-states, to reach around the world farther, faster, deeper and cheaper than ever before (Friedman, 1999). Development & Growth: Economic Impact of Globalization (Edited by: Farhang Morady, Hakan Kapucu, Ömer Yalçınkaya) 13 Francis Fukuyama (1992) suggested the new era as ‘The End of History’ through which the ‘Liberal Idea’ triumphed, leading to a new global hegemony. For Fukuyama the only route to modernity, growth and development is the Neo-liberal Democratic path under Global Capitalism. This optimism was not shared by all academics, as Globalization produced poor growth and polarization of wealth: what Collier terms the ‘Bottom one Billion’ (2008). As a result, there has been major criticism of the World Bank and the International Monetary Funds in the second half of the 1990s, especially with the Asian financial and economic crises. The response from these institutions has been vigorous. They continued to believe that liberalization, deregulation, and privatization represent the best way forward for growth and development. With 2008 world recession the World Economy has faced a new challenge. The emergence of powerful economies such as; China, India and Brazil; helped the world economy to grow, at least for now. However, the unevenness of the world economy continues to cause difficulties especially the US as they feeling the threat of their competitors such as China, Germany and even India. The victory of Donald Trump as the S President has represented an ideological shift from free trade advocator of global capitalism to a mixture of right-wing populism. Before and after the presidential election, he called for the revival of the American economy, which has been under considerable pressure since 2008 World Recession. In order to prove growth rate Trump has a huge challenge ahead, not least to deal with the competition from South East Asian economies, especially China. It remains to be seen whether the new US administration will continue with their populist rhetoric In this book, “Economic Impacts of Globalization: Growth & Development”, several academicians provide different analysis of economic growth and economic development. The scientific ethics and responsibility of the works in the book belong to the authors / writers. The book comprises of 15 chapters focusing on economic growth and economic

development in the era of globalisation. By taking different angles, they demonstrate different problems and solutions. This first complete English language edition of Euclides vindicatus presents a corrected and revised edition of the classical English translation of Saccheri's text by G.B. Halsted. It is complemented with a historical introduction on the geometrical environment of the time and a detailed commentary that helps to understand the aims and subtleties of the work. Euclides vindicatus, written by the Jesuit mathematician Gerolamo Saccheri, was published in Milan in 1733. In it, Saccheri attempted to reform elementary geometry in two important directions: a demonstration of the famous Parallel Postulate and the theory of proportions. Both topics were of pivotal importance in the mathematics of the time. In particular, the Parallel Postulate had escaped demonstration since the first attempts at it in the Classical Age, and several books on the topic were published in the Early Modern Age. At the same time, the theory of proportion was the most important mathematical tool of the Galilean School in its pursuit of the mathematization of nature. Saccheri's attempt to prove the Parallel Postulate is today considered the most important breakthrough in geometry in the 18th century, as he was able to develop for hundreds of pages and dozens of theorems a system in geometry that denied the truth of the postulate (in the attempt to find a contradiction). This can be regarded as the first system of non-Euclidean geometry. Its later developments by Lambert, Bolyai, Lobachevsky and Gauss eventually opened the way to contemporary geometry. Occupying a unique position in the literature of mathematical history, Euclid Vindicated from Every Blemish will be of high interest to historians of mathematics as well as historians of philosophy interested in the development of non-Euclidean geometries. This book presents an extensive variety of multi-objective problems across diverse disciplines, along with statistical solutions using multi-objective evolutionary algorithms (MOEAs). The topics discussed serve to promote a wider understanding as well as the use of MOEAs, the aim being to find good solutions for high-dimensional real-world design applications. The book contains a large collection of MOEA applications from many researchers, and thus provides the practitioner with detailed algorithmic direction to achieve good results in their selected problem domain. Learn how radio access network (RAN) slicing allows 5G networks to adapt to a wide range of environments in this masterful resource Radio Access Network Slicing and Virtualization for 5G Vertical Industries provides readers with a comprehensive and authoritative examination of crucial topics in the field of radio access network (RAN) slicing. Learn from renowned experts as they detail how this technology supports and applies to various industrial sectors, including manufacturing, entertainment, public safety, public transport, healthcare, financial services, automotive, and energy utilities. Radio Access Network Slicing and Virtualization for 5G Vertical Industries explains how future wireless communication systems must be built to handle high degrees of heterogeneity, including different types of applications, device classes, physical environments, mobility levels, and carrier frequencies. The authors describe how RAN slicing can be utilized to adapt 5G technologies to such wide-ranging circumstances. The book covers a wide range of topics necessary to understand RAN slicing, including: Physical waveforms design Multiple service signals coexistence RAN slicing and virtualization Applications to 5G vertical industries in a variety of environments This book is perfect for telecom engineers and industry actors who wish to identify realistic and cost-effective concepts to support specific 5G verticals. It also belongs on the bookshelves of researchers, professors, doctoral, and postgraduate students who want to identify open issues and conduct further research. The book discusses receiving signals that most electrical engineers detect and study. The vast majority of signals could never be detected due to random additive signals, known as noise, that distorts them or completely overshadows them. Such examples include an audio signal of the pilot communicating with the ground over the engine noise or a bioengineer listening for a fetus' heartbeat over the mother's. The text presents the methods for extracting the desired signals from the noise. Each new development includes examples and exercises that use MATLAB to provide the answer in graphic forms for the reader's comprehension and understanding. This first full-length study of the history of Iranian anthropology charts the formation and development of anthropology in Iran in the twentieth century. The text examines how and why anthropology and culture became part of wider socio-political discourses in Iran, and how they were appropriated, and rejected, by the pre- and post-revolutionary regimes. The author highlights the three main phases of Iranian anthropology, corresponding broadly to three periods in the social and political development of Iran: *the period of nationalism: lasting approximately from the constitutional revolution (1906-11) and the end of the Qajar dynasty until the end of Reza Shah's reign (1941) *the period of Nativism: from the 1950s until the Islamic revolution (1979) *the post-revolutionary period. In addition, the book places Iranian anthropology in an international context by demonstrating how Western anthropological concepts, theories and methodologies affected epistemological and political discourses on Iranian anthropology. This book constitutes the refereed proceedings of the 10th International Conference on Theory and Practice of Natural Computing, TPNC 2021, held virtually, in December 2021. The 9 full papers presented together with 3 invited talks, in this book were carefully reviewed and selected from 14 submissions. The papers are organized in topical sections named Applications of Natural Computing, Deep Learning and Transfer Learning, Evolutionary and Swarm Algorithms. This book details some of the major developments in the implementation of compressive sensing in radio applications for electronic defense and warfare communication use. It provides a comprehensive background to the subject and at the same time describes some novel algorithms. It also investigates application value and performance-related parameters of compressive sensing in scenarios such as direction finding, spectrum monitoring, detection, and classification. In two editions spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has grown into a set of six books carefully focused on specialized areas or fields of study. Each one represents a concise yet definitive collection of key concepts, models, and equations in its respective domain, thoughtfully gathered for convenient access. Combined, they constitute the most comprehensive, authoritative resource available. Circuits, Signals, and Speech and Image Processing presents all of the basic information related to electric circuits and components, analysis of circuits, the use of the Laplace transform, as well as signal, speech, and image processing using filters and algorithms. It also examines emerging areas such as text to speech synthesis, real-time processing, and embedded signal processing. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, electromagnetics, light waves, and radar, supplying all of the basic information required for a deep understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics. Sensors, Nanoscience, Biomedical Engineering, and Instruments provides thorough coverage of sensors, materials and nanoscience, instruments and measurements, and biomedical systems and devices, including all of the basic information required to thoroughly understand each area. It explores the emerging fields of sensors, nanotechnologies, and biological effects. Broadcasting and Optical Communication Technology explores communications, information theory, and devices, covering all of the basic information needed for a thorough understanding of these areas. It also examines the emerging areas of adaptive estimation and optical communication. Computers, Software Engineering, and Digital Devices examines digital and logical devices, displays, testing, software, and computers, presenting the fundamental concepts needed to ensure a thorough understanding of each field. It treats the emerging fields of programmable logic, hardware description languages, and parallel computing in detail. Systems, Controls, Embedded Systems, Energy, and Machines explores in detail the fields of energy devices, machines, and systems as well as control systems. It provides all of the fundamental concepts needed for thorough, in-depth understanding of each area and devotes special attention to the emerging area of embedded systems. Encompassing the work of the world's foremost experts in their respective specialties, The Electrical Engineering Handbook, Third Edition remains the most convenient, reliable source of information available. This edition features the latest developments, the broadest scope of coverage, and new material on nanotechnologies, fuel cells, embedded systems, and biometrics. The engineering community has relied on the Handbook for more than twelve years, and it will continue to be a platform to launch the next wave of advancements. The Handbook's latest incarnation features a protective slipcase, which helps you stay organized without overwhelming your bookshelf. It is an attractive addition to any collection, and will help keep each volume of the Handbook as fresh as your latest research. A comprehensive and invaluable guide to 5G technology, implementation and practice in one single volume. For all things 5G, this book is a must-read. Signal processing techniques have played the most important role in wireless communications since the second generation of cellular systems. It is anticipated that new techniques employed in 5G wireless networks will not only improve peak service rates significantly, but also enhance capacity, coverage, reliability, low-latency, efficiency, flexibility, compatibility and convergence to meet the increasing demands imposed by applications such as big data, cloud service, machine-to-machine (M2M) and mission-critical communications. This book is a comprehensive and detailed guide to all signal processing techniques employed in 5G wireless networks. Uniquely organized into four categories, New Modulation and Coding, New Spatial Processing, New Spectrum Opportunities and New System-level Enabling Technologies, it covers everything from network architecture, physical-layer (down-link and up-link), protocols and air interface, to cell acquisition, scheduling and rate adaptation, access procedures and relaying to spectrum allocations. All technology aspects and major roadmaps of global 5G standard development and deployments are included in the book. Key Features: Offers step-by-step guidance on bringing 5G technology into practice, by applying algorithms and design methodology to real-time circuit implementation, taking into account rapidly growing applications that have multi-standards and multi-systems. Addresses spatial signal processing for 5G, in particular massive multiple-input multiple-output (massive-MIMO), FD-MIMO and 3D-MIMO along with orbital angular momentum multiplexing, 3D beamforming and diversity. Provides detailed algorithms and implementations, and compares all multicarrier

modulation and multiple access schemes that offer superior data transmission performance including FBMC, GFDM, F-OFDM, UFMC, SEFDM, FTN, MUSA, SCMA and NOMA. Demonstrates the translation of signal processing theories into practical solutions for new spectrum opportunities in terms of millimeter wave, full-duplex transmission and license assisted access. Presents well-designed implementation examples, from individual function block to system level for effective and accurate learning. Covers signal processing aspects of emerging system and network architectures, including ultra-dense networks (UDN), software-defined networks (SDN), device-to-device (D2D) communications and cloud radio access network (C-RAN). Drawing on a half century of scholarship, of Polish studies of Copernicus and Cracow University, and of Copernicus's sources, this book offers a comprehensive re-evaluation of Copernicus's achievement, and explains his commitment to the uniform, circular motions of celestial bodies, and his views about hypotheses. Diskette includes: MATLAB programs and exercises. Nearly all solids are comprised of grains. However most studies treat materials as a continuous solid. The book applies analysis used on loose granular materials to dense granular materials. This title's main focus is devoted to static or dynamic loadings applied to dense materials, although rapid flows and widely dispersed media are also mentioned briefly. Three essential areas are covered: Local variable analysis: Contact forces, displacements and rotations, orientation of contacting particles and fabric tensors are all examples of local variables. Their statistical distributions, such as spatial distribution and possible localization, are analyzed, taking into account experimental results or numerical simulations. Change of scales procedures: Also known as "homogenization techniques", these procedures make it possible to construct continuum laws to be used in a continuum mechanics approach or performing smaller scale analyses. Numerical modeling: Several methods designed to calculate approximate solutions of dynamical equations together with unilateral contact and frictional laws are presented, including molecular dynamics, the distinct element method and non-smooth contact dynamics. Numerical examples are given and the quality of numerical approximations is discussed. This book is an accessible guide to adaptive signal processing methods that equips the reader with advanced theoretical and practical tools for the study and development of circuit structures and provides robust algorithms relevant to a wide variety of application scenarios. Examples include multimodal and multimedia communications, the biological and biomedical fields, economic models, environmental sciences, acoustics, telecommunications, remote sensing, monitoring and in general, the modeling and prediction of complex physical phenomena. The reader will learn not only how to design and implement the algorithms but also how to evaluate their performance for specific applications utilizing the tools provided. While using a simple mathematical language, the employed approach is very rigorous. The text will be of value both for research purposes and for courses of study. Since the 1960s, the class action lawsuit has been a powerful tool for holding businesses accountable. Yet years of attacks by corporate America and unfavorable rulings by the Supreme Court have left its future uncertain. In this book, Brian T. Fitzpatrick makes the case for the importance of class action litigation from a surprising political perspective: an unabashedly conservative point of view. Conservatives have opposed class actions in recent years, but Fitzpatrick argues that they should see such litigation not as a danger to the economy, but as a form of private enforcement of the law. He starts from the premise that all of us, conservatives and libertarians included, believe that markets need at least some rules to thrive, from laws that enforce contracts to laws that prevent companies from committing fraud. He also reminds us that conservatives consider the private sector to be superior to the government in most areas. And the relatively little-discussed intersection of those two beliefs is where the benefits of class action lawsuits become clear: when corporations commit misdeeds, class action lawsuits enlist the private sector to intervene, resulting in a smaller role for the government, lower taxes, and, ultimately, more effective solutions. Offering a novel argument that will surprise partisans on all sides, *The Conservative Case for Class Actions* is sure to breathe new life into this long-running debate. This book deals with the concept of post-Islamism from a mainly philosophical perspective, using political liberalism as elaborated by John Rawls as the key interpretive tool. What distinguishes this book from most scholarship in Iranian studies is that it primarily deals with the projects of Iranian intellectuals from a normative perspective as the concept is understood by analytical philosophers. The volume includes analyses of the strengths and weakness of the arguments underlying each thinker's ideas, rather than looking for their historical and sociological origins, genealogy, etc. Each chapter develops a particular conjectural argument for the possibility of an overlapping consensus between Islam and political liberalism, though the arguments presented draw upon different Islamic, particularly Shia, resources. Thus, while Shabestari and Soroush primarily reason from a modernist theological or kalami perspective, M.H. Tabatabai and Mehdi Haeri Yazdi's arguments are mainly based on traditional Islamic philosophy and Quranic exegesis. While Kadivar, An-Naim and Fanaei are post-Islamist in the exact sense of the term, Malekian goes beyond typical post-Islamism by proposing a theory for spirituality that constrains religion within the boundaries of enlightenment thought. Throughout the book, specific attention is given to Ferrara and March's readings of political liberalism. Although the book's chapters constitute a whole, they can also be read independently if the reader is only curious about particular intellectuals whose political theories are discussed. Analysis of big data is becoming a hot stuff for engineers, researchers and business enterprises now a days. It refers to the process of collecting, organizing and analyzing large sets of data to discover hidden patterns and other useful information. Not solely can massive information analytics assist to know the knowledge contained inside the information, however it will additionally facilitate to determine the information that is most significant to the business and future business choices. Cloud computing is the type of computing that relies on sharing computing resources rather than having local servers or personal devices to handle applications. Cloud computing aims at applying traditional supercomputing, or high-performance computing power to perform tens of trillions of computations per second, in consumer-oriented applications such as financial portfolios, to deliver personalized information, to provide data storage etc. Since big data places on networks, storage and servers, requirements arise to analyse this huge amount data on the cloud. Even cloud providers also welcome this new business opportunity of supporting big data analysis in the cloud. But in the same time they are facing various, architectural and technical hurdles. Therefore, big data analysis in cloud attracting many researchers now a days. The National Conference on Communication, Cloud and Big Data (CCB) 2014 organized by Department of Information Technology, SMIT has received keen response from researchers across the country. Each paper went through reviews process and finally, 30 papers were selected for presentation. The papers are an even mix of research topics from the fields of Communication, Cloud and Big Data and its applications in various fields of engineering and science. This book constitutes the refereed proceedings of the 7th International Conference on Decision and Game Theory for Security, GameSec 2016, held in New York, NY, USA, in November 2016. The 18 revised full papers presented together with 8 short papers and 5 poster papers were carefully reviewed and selected from 40 submissions. The papers are organized in topical sections on network security; security risks and investments; special track-validating models; decision making for privacy; security games; incentives and cybersecurity mechanisms; and intrusion detection and information limitations in security. In two volumes, this new edition presents the state of the art in Multiple Criteria Decision Analysis (MCDA). Reflecting the explosive growth in the field seen during the last several years, the editors not only present surveys of the foundations of MCDA, but look as well at many new areas and new applications. Individual chapter authors are among the most prestigious names in MCDA research, and combined their chapters bring the field completely up to date. Part I of the book considers the history and current state of MCDA, with surveys that cover the early history of MCDA and an overview that discusses the "pre-theoretical" assumptions of MCDA. Part II then presents the foundations of MCDA, with individual chapters that provide a very exhaustive review of preference modeling, along with a chapter devoted to the axiomatic basis of the different models that multiple criteria preferences. Part III looks at outranking methods, with three chapters that consider the ELECTRE methods, PROMETHEE methods, and a look at the rich literature of other outranking methods. Part IV, on Multiattribute Utility and Value Theories (MAUT), presents chapters on the fundamentals of this approach, the very well known UTA methods, the Analytic Hierarchy Process (AHP) and its more recent extension, the Analytic Network Process (ANP), as well as a chapter on MACBETH (Measuring Attractiveness by a Categorical Based Evaluation Technique). Part V looks at Non-Classical MCDA Approaches, with chapters on risk and uncertainty in MCDA, the decision rule approach to MCDA, the fuzzy integral approach, the verbal decision methods, and a tentative assessment of the role of fuzzy sets in decision analysis. Part VI, on Multiobjective Optimization, contains chapters on recent developments of vector and set optimization, the state of the art in continuous multiobjective programming, multiobjective combinatorial optimization, fuzzy multicriteria optimization, a review of the field of goal programming, interactive methods for solving multiobjective optimization problems, and relationships between MCDA and evolutionary multiobjective optimization (EMO). Part VII, on Applications, selects some of the most significant areas, including contributions of MCDA in finance, energy planning problems, telecommunication network planning and design, sustainable development, and portfolio analysis. Finally, Part VIII, on MCDM software, presents well known MCDA software packages. This second edition of *Adaptive Filters: Theory and Applications* has been updated throughout to reflect the latest developments in this field; notably an increased coverage given to the practical applications of the theory to illustrate the much broader range of adaptive filters applications developed in recent years. The book offers an easy to understand approach to the theory and application of adaptive filters by clearly illustrating how the theory explained in the early chapters of the book is modified for the various applications discussed in detail in later chapters. This integrated approach makes the book a valuable resource for graduate students; and the inclusion of more advanced applications including antenna arrays and wireless communications makes it a suitable technical reference for engineers, practitioners and researchers. Key features: • Offers a thorough treatment of the theory of adaptive signal

processing; incorporating new material on transform domain, frequency domain, subband adaptive filters, acoustic echocancellation and active noise control. • Provides an in-depth study of applications which now includes extensive coverage of OFDM, MIMO and smart antennas. • Contains exercises and computer simulation problems at the end of each chapter. • Includes a new companion website hosting MATLAB® simulation programs which complement the theoretical analyses, enabling the reader to gain an in-depth understanding of the behaviours and properties of the various adaptive algorithms. This book constitutes the refereed proceedings of the 8th International Conference on Decision and Game Theory for Security, GameSec 2017, held in Vienna, Austria, in October 2017. The 24 revised full papers presented together with 4 short papers were carefully reviewed and selected from 71 submissions. The papers address topics such as Game theory and mechanism design for security and privacy; Pricing and economic incentives for building dependable and secure systems; Dynamic control, learning, and optimization and approximation techniques; Decision making and decision theory for cybersecurity and security requirements engineering; Socio-technological and behavioral approaches to security; Risk assessment and risk management; Security investment and cyber insurance; Security and privacy for the Internet-of-Things (IoT), cyber-physical systems, resilient control systems; New approaches for security and privacy in cloud computing and for critical infrastructure; Security and privacy of wireless and mobile communications, including user location privacy; Game theory for intrusion detection; and Empirical and experimental studies with game-theoretic or optimization analysis for security and privacy. Publisher description

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