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<u>Microelectronics, Communication Systems, Machine Learning and Internet of Things</u> Vijay Nath 2022-07-11 This volume presents peer-reviewed papers of the First International Conference on Microelectronics, Communication Systems, Machine Learning, and the Internet of Things (MCMI-2020). This book discusses recent trends in technology and advancement in microelectronics, nano-electronics, VLSI design, IC technologies, wireless communications, optical communications, SoC, advanced instrumentations, signal processing, internet of things, machine learning, image processing, green energy, hybrid vehicles, weather forecasting, cloud computing, renewable energy, CMOS sensors, actuators, RFID, transducers, real-time embedded system, sensor network and applications, EDA design tools and techniques, fuzzy logic & artificial intelligence, high-performance computer architecture, AI-based robotics & applications, brain-computer interface, deep learning, advanced operating systems, supply chain development & monitoring, physical systems design, ICT applications, e-farming, information security, etc. It includes original papers based on theoretical, practical, experimental, simulations, development, application, measurement, and testing. The applications and solutions discussed in the book will serve as good reference material for young scholars, researchers, and academics.

Creating a Geriatric Emergency Department John Schumacher 2022-02-03 An essential, experience-based, practical guide for anyone looking to improve the care of older patients in the emergency department.

<u>Advances in Quantitative Economic Research</u> Nicholas Tsounis 2022-08-30 This volume presents advanced quantitative methods and applications in economics with special interest in macroeconomics, microeconomics, financial economics, international economics, agricultural economics, and marketing and management. Featuring selected contributions from the 2021 International Conference of Applied Economics (ICOAE 2021) held in Heraklion Crete, Greece, this book provides country specific studies with potential applications in economic policy.

The Digital Transformer's Dilemma Karolin Frankenberger 2020-09-14 Bring your company into the digital era without compromising your core business In The Digital Transformer's Dilemma: How to Energize Your Core Business While Building Disruptive Products and Services, the authors show companies how to go digital while also advancing their core business. The book emphasizes how to strike a difficult balance between establishing a new (digital) business and re-vitalizing – and digitizing – the legacy business. The core of the book is focused on the actual implementation of the digital transformation across both businesses, providing concrete tips, tricks, tools and action plans across six key dimensions: Crafting a flexible organization Using technology as a driver Designing the necessary processes Building transformational leaders "Right-skilling" the workforce of the future Galvanizing cultural change The Digital Transformer's Dilemma is a very visual book, filled with dozens of engaging illustrations that bring the contained concepts to life on the page. Based on 100+ interviews with senior executives at leading companies (such as Nestlé, Novartis, Volkswagen, BNP Paribas, BASF and Michelin) and smaller hidden champions, numerous illuminating case studies, and the authors' own experience from working in international management consulting and years of academic experience,

the book highlights the fundamental principles required for executives and businesspeople to transform legacy organizations into digitally empowered companies.

Contributions to on-board navigation on 1U CubeSats Weiß, Sascha 2022-04-07 This thesis investigates the use of GNSS receivers on 1U CubeSats, using the example of BEESAT-4 and BEESAT-9. The integration of such a device on satellites enables highly precise time synchronization, position acquisition and orbit determination and prediction The application fields that depend on an accurate attitude control and orbit determination system and can also be processed by CubeSats are highlighted. Therefore the state of the art of GNSS receivers is described, which are suitable for the use on satellites and could be integrated into 1U CubeSats. Further on it is investigated which subsystems of a small satellite are particularly affected and what the special challenges are to realize a precise positioning with a GNSS receiver. In addition, some developments are presented that have significantly increased the performance of 1U CubeSats in recent years. The system concept of BEESAT satellites is introduced and the evolution of the payload board including the use of the latest sensor technologies for attitude control is described. It is shown how the verification of the satellite's subsystems was performed on the ground, with the focus on testing and simulating the attitude control and the GNSS receiver. The necessary integration steps, the calibration and environmental test campaign are discussed. Both satellites were successfully operated and the results of the on-orbit experiments are presented. It is shown how a three-axis stabilized attitude control was first verified on BEESAT-4 and then a GNSS receiver was successfully operated on BEESAT-9 for more than one year. In addition, the inter-satellite link between BEESAT-4 and BIROS will be analyzed, since it is essential for the relative navigation of satellites. The acquired navigation data was sent to the ground and the identification of BEESAT-9 was carried out using this data. A qualitative analysis of the orbital elements (TLE) of BEESAT-9 was performed systematically due to a daily operation of the GNSS receiver. Furthermore, it was investigated how a small GNSS antenna affects the received signal strength from GNSS satellites and whether this antenna or its amplifier degrades over time. Additionally, an orbit determination and propagation based on the navigation data could be performed and the results are evaluated. The analyzed questions allow a statement about the continuous use of GNSS receivers on 1U CubeSats and if it is necessary to achieve the mission objectives. Diese Arbeit untersucht den Einsatz von GNSS-Empfängern auf 1U CubeSats am Beispiel von BEESAT-4 und BEESAT-9. Das Integrieren einer solchen Komponente auf Satelliten ermöglicht eine hochgenaue Zeitsynchronisation, Positions- und Orbitbestimmung sowie deren Vorhersage Es werden die Anwendungsfelder beleuchtet, die auf ein akkurates Lageregelungs- und Orbitbestimmungssystem angewiesen sind und außerdem auch von CubeSats bearbeitet werden können. Dazu wird der Stand der Technik von GNSS-Empfängern beschrieben, die für den Einsatz auf Satelliten geeignet sind und von ihren Eigenschaften auch auf 1U CubeSats integriert werden könnten. Weitergehend wird untersucht, welche Subsysteme eines Kleinstsatelliten besonders betroffen sind und was die speziellen Herausforderungen sind, um eine präzise Positionsbestimmung mithilfe eines GNSS-Empfängers zu realisieren. Dazu werden auch einige Entwicklungen vorgestellt, die in den letzten Jahren die Leistungsfähigkeit von 1U CubeSats signifikant erhöht haben. Das Systemkonzept der BEESAT Satelliten wird eingeführt und die Evolution der Nutzlastplatine inklusive der Verwendung der jeweils neuesten Sensortechnologien für die Lageregelung beschrieben. Es wird gezeigt wie die Verifikation der Subsysteme des Satelliten am Boden erfolgte, wobei der Fokus auf dem Testen und Simulieren der Lageregelung und dem GNSS-Empfänger liegt. Dazu werden die notwendigen Integrationsschritte, die Kalibrations- und die Umwelttestkampagne diskutiert. Beide Satelliten wurden erfolgreich betrieben und die Ergebnisse der on-orbit Experimente werden vorgestellt. Es wird gezeigt wie zunächst eine dreiachsenstabilisierte Lageregelung auf BEESAT-4 verifiziert und anschließend auf BEESAT-9 über mehr als ein Jahr ein GNSS-Empfänger erfolgreich betrieben wurde. Zusätzlich wird der Intersatelliten Link zwischen BEESAT-4 und BIROS analysiert, da dieser für die Relativnavigation von Satelliten essentiell ist. Die akquirierten Navigationsdaten wurden zum Boden gesendet und die Identifizierung von BEESAT-9 erfolgte mithilfe dieser Daten. Eine qualitative Analyse der Orbitelemente (TLE) von BEESAT-9 konnte systematisch durchgeführt werden durch einen täglichen Einsatz des GNSS-Empfängers. Weiterhin wurde erforscht wie sich eine kleine GNSS-Antenne auf die empfangenen Signalstärken der GNSS Satelliten auswirkt und ob diese Antenne oder ihr Verstärker mit der Zeit degradieren. Zusätzlich konnte eine Orbitbestimmung und -propagation auf Basis der Navigationsdaten durchgeführt und die Ergebnisse ausgewertet werden. Die analysierten Fragestellungen erlauben eine Aussage über den durchgängigen Einsatz von GNSS-Empfängern auf 1U CubeSats und ob dieser notwendig ist um die Missionsziele zu erreichen.

Proceedings of the 5th International Conference on Sustainable Civil Engineering Structures and Construction Materials Sheila Belayutham 2022-04-06 This book compiles papers presented during the 5th International Conference on Sustainable Civil Engineering Structures and Construction Materials (SCESCM) held virtually in December 2020. This is the fifth edition of this conference series; the theme for the 5th SCESCM is "Transforming the World, Foster the Sustainable Development Goals (SDGs)," and it focuses on various issues, novel findings, as well as developments in the area of civil and infrastructure, conforming to the SDGs. This book caters to postgraduate students, researchers, and practitioners involved in advocating and embedding sustainability in various phases of design, construction and maintenance of civil engineering structures and infrastructure facilities.

Agricultural Policy Monitoring and Evaluation 2020 OECD 2020-06-30 This annual report monitors and evaluates agricultural policies spanning all six continents, including the 36 OECD countries, the five non-OECD EU Member States, and 13 emerging economies.

The Legendary Myth II Richard Alexander Panter 2020-01-20 Introduction Stardate: 2020-03-27........ 4 years after the finding of a World called Arcanus II, within the Exterio system, one of the oldest they say. Two unlikely souls found one another alone in a vast unknown universe. My name is Mr. Richards, a U.f.O specialist hired by the federal Government back when Elizabeth and I were both on earth, and that was over four years ago, to date. Elizabeth and I both vaguely remember those events which brought us out here. Our new lives had taken us from earth, and threw us out onto a lost and unforgiving World, filled with Cannibals, and Ancient deserted cities of a great race that once lived out here, among the stars. We had found a genuine flying Saucer, which was called the Myth. We then left Arcanus II, to go home back to earth, over 14 million light years away. So along the way we had found, and saved a few more, to help us operate the Myth. A Saucer ship, now with a half crew on board. Elizabeth and I started off as strangers on earth, and found ourselves thrusted out into the fringes of an Unknown Universe. The Myth was equipped with experimental Stealth activators, litanium energy shielding, and Anti graviton Oscillating energy fields, as to land the Saucer ship down onto the surface, with a soft landing. We had as well a full complement of extraordinary alien weapons, and technology. Including six fully rotational Sonicion laser cannons. This is the legend of what became of two humans, who had found a flying Saucer, at the edge of an unforgiving Universe. My name is Captain Richards, of the legendary Myth.

Bowling Alone: Revised and Updated Robert D. Putnam 2020-10-13 Updated to include a new chapter about the influence of social media and the Internet—the 20th anniversary edition of Bowling Alone remains a seminal work of social analysis,

and its examination of what happened to our sense of community remains more relevant than ever in today's fractured America. Twenty years, ago, Robert D. Putnam made a seemingly simple observation: once we bowled in leagues, usually after work; but no longer. This seemingly small phenomenon symbolized a significant social change that became the basis of the acclaimed bestseller, Bowling Alone, which The Washington Post called "a very important book" and Putnam, "the de Tocqueville of our generation." Bowling Alone surveyed in detail Americans' changing behavior over the decades, showing how we had become increasingly disconnected from family, friends, neighbors, and social structures, whether it's with the PTA, church, clubs, political parties, or bowling leagues. In the revised edition of his classic work, Putnam shows how our shrinking access to the "social capital" that is the reward of communal activity and community sharing still poses a serious threat to our civic and personal health, and how these consequences have a new resonance for our divided country today. He includes critical new material on the pervasive influence of social media and the internet, which has introduced previously unthinkable opportunities for social connection—as well as unprecedented levels of alienation and isolation. At the time of its publication, Putnam's then-groundbreaking work showed how social bonds are the most powerful predictor of life satisfaction, and how the loss of social capital is felt in critical ways, acting as a strong predictor of crime rates and other measures of neighborhood quality of life, and affecting our health in other ways. While the ways in which we connect, or become disconnected, have changed over the decades, his central argument remains as powerful and urgent as ever: mending our frayed social capital is key to preserving the very fabric of our society.

The Art of Aftermath: Words and Pictures Exchanged Between 07/2020-03/2023 Catherine Morris 2023-05-04 In the summer 2020, Catherine Morris and Tim Maul agreed to develop a writing project around a set of 35mm slides he had gifted her from his 1994 commission with the National Library of Ireland. They wanted to attempt an image/writing exchange outside of the positivist "creative" busywork that appeared early in the ongoing pandemic.

NBER Macroeconomics Annual, 2022 Martin Eichenbaum 2023-05-15 Authoritative takes on the most current and pressing issues in macroeconomics today. The NBER Macroeconomics Annual provides a forum for leading economists to participate in important debates in macroeconomics and to report on major developments in macroeconomic analysis and policy. The NBER Macroeconomics Annual brings together leading scholars to discuss five research papers on central issues in contemporary macroeconomics. First, Andrea Eisfeldt, Antonio Falato, and Mindy Xiaolan document the rise of a new class of worker that receives part of its labor income as equity-based compensation, its role in the recent decline in the labor share of income, and implications for the returns to skilled labor and the implied capital-skill complementarity. Next, Michael Bauer and Eric Swanson focus on monetary policy shocks and argue the correlation between estimated monetary surprises and previously available information can be explained by uncertainty about the parameters of the monetary policy rule. Using new data and methods they find effects of monetary policy on macroeconomic variables that are much larger than previously estimated. Job Boerma and Loukas Karabarbounis provide a framework for quantitatively exploring the gap in wealth between White and Black Americans over the past 150 years and examine the effectiveness of reparations as a tool for closing this gap. Guido Menzio considers workers who do not have rational expectations, and whose "stubborn" beliefs change the response of wages to technology shocks, resulting in sticky wages. He finds that the larger the fraction of workers with stubborn beliefs, the more volatile unemployment is. Finally, Rishabh Aggarwal, Adrien Auclert, Matthew Rognlie, and Ludwig Straub investigate the growth—particularly in the United States—of private savings, current account deficits, and fiscal deficits after 2020. They argue that fiscal deficits lead to large and persistent increases in private savings and current account deficits.

Navigating Healthcare Through Challenging Times D. Hayn 2021-05-09 Aside from the dramatic effects that the COVID-19 pandemic has had on the lives of people everywhere, it has also triggered and accelerated some important process changes in healthcare. Digital health has become ever more important, supporting test strategies and contact tracing, statistical analysis, prognostic modeling, and vaccination roll-out and documentation. Video calls have become more common, and it seems likely that all these changes will continue to influence healthcare in the longer-term. This book presents the proceedings of dHealth 2021 – the 15th annual conference on Health Informatics Meets Digital Health – held as a virtual conference on 11 & 12 May 2021. The dHealth conference is where research and application meet as equals, and the conference series has been contributing to scientific exchange and networking since 2007. The 2021 edition is the second that has been organized virtually. Each year, this event attracts 300+ participants from academia, industry, government and healthcare organizations, and provides a platform for researchers, practitioners, decision makers and vendors to discuss innovative health informatics and dHealth solutions with the aim of improving the quality and efficiency of healthcare. The 24 papers included here offer an insight into the research on digital health conducted during the COVID-19 crisis, and topics include the management of infectious diseases, telehealth services, standardization and interoperability in healthcare, nursing informatics, data analytics, predictive modeling and digital tools for rare-disease research. The book provides new healthcare insights from both science and practice, and will be of interest to all those working in healthcare.

Capitalism, Alone Branko Milanovic 2019-09-24 For the first time in history, the globe is dominated by one economic system. Capitalism prevails because it delivers prosperity and meets desires for autonomy. But it also is unstable and morally defective. Surveying the varieties and futures of capitalism, Branko Milanovic offers creative solutions to improve a system that isn't going anywhere.

Annual Report on Exchange Arrangements and Exchange Restrictions 2020 International Monetary 2021-08-25 Annual Report on Exchange Arrangements and Exchange Restrictions 2020

Preventable Devi Sridhar 2022-04-21 **THE SUNDAY TIMES BESTSELLER | BBC RADIO 4 BOOK OF THE WEEK** The definitive story of COVID-19 and how global politics shape our health - from a world-leading expert and the pandemic's go-to science communicator Professor Devi Sridhar has risen to prominence for her vital roles in communicating science to the public and speaking truth to power. In Preventable she highlights lessons learned from outbreaks past and present in a narrative that traces the COVID-19 pandemic - including her personal experience as a scientist - and sets out a vision for how we can better protect ourselves from the inevitable health crises to come. In gripping and heartfelt prose, Sridhar exposes the varied realities of those affected and puts you in the room with key decision makers at crucial moments. She vibrantly conveys the twists and turns of a plot that saw: deadlier varients emerge (contrary to the predictions of social media pundits who argued it would mutate to a milder form); countries with weak health systems like Senegal and Vietnam fare better than countries like the US and UK (which were consistently ranked as the most prepared); and the quickest development of game-changing vaccines in history (and their unfair distribution) Combining science, politics, ethics and economics, this definitive book dissects the global structures that determine our fate, and reveals the deep-seated economic and social inequalities at their heart - it will challenge, outrage and inspire. 'A brutally compelling reminder that if voices like Devi's had been listened to, so many more could have lived' OWEN

JONES 'One of the most brilliant scientists in the world who has been proven consistently right in this crisis' PIERS MORGAN 'Excellent . . . Fair, clear and compelling' NICOLA STURGEON 'Those who have found Professor Devi Sridhar's expertise and calm advice invaluable since the arrival of Covid-19 will be glad to know that she has written Preventable' RACHEL COOKE, Guardian, Non-fiction to look out for in 2022

Advances in Managing Energy and Climate Risks Stéphane Goutte 2021-04-21 This book presents research related to energy and environmental technologies in the context of market liberalization and global warming. It focuses on the development and efficient use of alternative energy sources, implementation of sustainable energy policies, power generation, and energy finance. Advances in Managing Energy and Climate Risks provides readers with the necessary information to use energy sources more efficiently, discover cleaner energy sources and their applications, and urge consumers and producers to make changes to reach a carbon-neutral economy through financial, technological, regulatory and tax incentives.

Local Journalism Rachel Matthews 2023-07-13 Local Journalism investigates the range of meanings associated with the 'local newspaper' and considers how digital technology has disrupted the fabric of the local news industry. Divided into two parts, this book first provides a theoretical account of how normative meanings associated with the local newspaper have been challenged by the impact of digital technology and then goes on to explore these questions via case studies drawn from a variety of contexts including the US, Ireland, Denmark, the UK and Spain. It suggests three thematic ways of understanding the role of the legacy local newspaper in a post-digital environment, namely as an information provider, commercial entity and community champion. While much scholarship talks of their demise, this book argues for a more nuanced understanding of the local newspaper and its continued significance to people, places and commercial interests. Local Journalism will benefit students, academics and researchers in the areas of journalism, media studies and sociology.

Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino Charles Bell 2020-06-25 Build sensor networks with Python and MicroPython using XBee radio modules, Raspberry Pi, and Arduino boards. This revised and updated edition will put all of these together to form a sensor network, and show you how to turn your Raspberry Pi into a MySQL database server to store your sensor data! You'll review the different types of sensors and sensor networks, along with new technology, including how to build a simple XBee network. You'll then walk through building an sensor nodes on the XBee, Raspberry Pi, and Arduino, and also learn how to collect data from multiple sensor nodes. The book also explores different ways to store sensor data, including writing to an SD card, sending data to the cloud, and setting up a Raspberry Pi MySQL server to host your data. You'll even learn how to connect to and interact with a MySQL database server directly from an Arduino! Finally you'll see how to put it all together by connecting your sensor nodes to your new Raspberry Pi database server. If you want to see how well XBee, Raspberry Pi, and Arduino can get along, especially to create a sensor network, then Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino is just the book you need. What You'll LearnCode your sensor nodes with Python and MicroPython Work with new XBee 3 modulesHost your data on Raspberry PiGet started with MySQLCreate sophisticated sensor networks Who This Book Is For Those interested in building or experimenting with sensor networks and IoT solutions, including those with little or no programming experience. A secondary target includes readers interested in using XBee modules with Raspberry Pi and Arduino, those interested in controlling XBee modules with MicroPython.

Computational Epidemiology Ellen Kuhl 2021-09-22 This innovative textbook brings together modern concepts in mathematical epidemiology, computational modeling, physics-based simulation, data science, and machine learning to understand one of the most significant problems of our current time, the outbreak dynamics and outbreak control of COVID-19. It teaches the relevant tools to model and simulate nonlinear dynamic systems in view of a global pandemic that is acutely relevant to human health. If you are a student, educator, basic scientist, or medical researcher in the natural or social sciences, or someone passionate about big data and human health: This book is for you! It serves as a textbook for undergraduates and graduate students, and a monograph for researchers and scientists. It can be used in the mathematical life sciences suitable for courses in applied mathematics, biomedical engineering, biostatistics, computer science, data science, epidemiology, health sciences, machine learning, mathematical biology, numerical methods, and probabilistic programming. This book is a personal reflection on the role of data-driven modeling during the COVID-19 pandemic, motivated by the curiosity to understand it.

Geoparticipatory Spatial Tools Jiri Panek 2022-07-20 The book explores the key factors affecting the successful implementation of public participation spatial systems in participatory planning as part of the urban governance system. It brings insight from nation-wide research in the Czech Republic and the implications to other countries in the region and beyond. The main aim of the proposed book is to analyse the state-of-the-art of using geoparticipatory tools for citizens' participation in community decision-making process and to suggest the effective implementation of the geoparticipatory tools available in urban governance. This book explores the situation in the Czech Republic as a representative of for Eastern Bloc country, three decades after the political transition, on its way to public participation in local and urban governance. The active involvement of the citizens into the local and urban decision making process via geoparticipatory spatial tools is becoming a popular research field among human geographers, behavioural geographers, GIS scientists, environmental psychologists, policy scientists and many others scientific areas.

Signal and Information Processing, Networking and Computers Yue Wang 2020-12-17 This book collects selected papers from the 7th Conference on Signal and Information Processing, Networking and Computers held in Rizhao, China, on September 21-23, 2020. The 7th International Conference on Signal and Information Processing, Networking and Computers (ICSINC) was held in Rizhao, China, on September 21-23, 2020.

Reeds Eastern Almanac 2020 Perrin Towler 2019-08-29 The Reeds Eastern Almanac covers the UK east coast from Ramsgate to Cape Wrath including the Shetland and Orkney Islands, and from Niewport to Delfzjil and Helgoland. It is the complete guide for North Sea mariners, offering ready access to essential navigation information by virtue of its clear layout and user friendly format. Completely updated for 2020, topics include seamanship, pilotage, tide tables, safety procedures, navigation tips, radio, lights, waypoints, weather forecast information around UK and European waters, communications, Mayday and distress procedures. The spiral binding allows the Almanac to be opened flat on the chart table and the large type and clear layout makes information easy to read even in adverse conditions. This handy volume is ideal for anyone cruising the North Sea. Includes a free Reeds Marina Guide. Also available: free supplements of up-to-date navigation changes from January to June at: www.reedsnauticalalmanac.co.uk 'There are some things I would not go to sea without - Reeds is one of them.' Sir Chay Blyth

Mansions of the Moon: A Lunar Zodiac for Astrology and Magic 2nd Edition with 2019-2033 Mansion Ephemeris Christopher Warnock 2019-02-07 The Mansions of the Moon are a lunar Zodiac, measuring the movement of the Moon against the fixed stars Used by medieval and Renaissance astrologers, this ancient system has been lost for hundreds of years. In the Mansions of the Moon, author Christopher Warnock, a leading traditional astrologer and astrological magician, explains the origin and use of the Mansions, for electional and natal astrology as well as for the production of Mansion talismans. Included are English translations of the Mansion sections from Picatrix, the most famous astrological grimoire. Also included are 28 beautiful Mansion images by the talented artist and mage Nigel Jackson, which readers can use to create their own Mansion talismans. With a full introduction, theory and practical examples, updated 2019-2033 Mansions ephemeris and numerous useful appendices of traditional Mansion sources, the Mansions of the Moon is a must have source for traditional astrology and astrological magic.

Machine Learning Toolbox for Social Scientists Yigit Aydede 2023-09-22 Machine Learning Toolbox for Social Scientists covers predictive methods with complementary statistical "tools" that make it mostly self-contained. The inferential statistics is the traditional framework for most data analytics courses in social science and business fields, especially in Economics and Finance. The new organization that this book offers goes beyond standard machine learning code applications, providing intuitive backgrounds for new predictive methods that social science and business students can follow. The book also adds many other modern statistical tools complementary to predictive methods that cannot be easily found in "econometrics" textbooks: nonparametric methods, data exploration with predictive models, penalized regressions, model selection with sparsity, dimension reduction methods, nonparametric time-series predictions, graphical network analysis, algorithmic optimization methods, classification with imbalanced data, and many others. This book is targeted at students and researchers who have no advanced statistical background, but instead coming from the tradition of "inferential statistics". The modern statistical methods the book provides allows it to be effectively used in teaching in the social science and business fields. Key Features: The book is structured for those who have been trained in a traditional statistics curriculum. There is one long initial section that covers the differences in "estimation" and "prediction" for people trained for causal analysis. The book develops a background framework for Machine learning applications from Nonparametric methods. SVM and NN simple enough without too much detail. It's self-sufficient. Nonparametric time-series predictions are new and covered in a separate section. Additional sections are added: Penalized Regressions, Dimension Reduction Methods, and Graphical Methods have been increasing in their popularity in social sciences.

Digital Transformation, Strategic Resilience, Cyber Security and Risk Management Kiran Sood 2023-09-28 Contemporary Studies in Economic and Financial Analysis publishes a series of current and relevant themed volumes within the fields of economics and finance.

Narrating Stance, Morality, and Political Identity Lauren Zentz 2021-05-23 This book offers unique insights into the use of Facebook after the 2016 US presidential election, interrogating how users in private groups draw on individual experiences in movement building and identity construction while also critically reflecting on ethnographic practices around social media. The volume draws on the author's own involvement in a specific Facebook group focused around activism and community organizing in Texas following the 2016 US presidential election. Chapters draw on the frameworks of "small stories" and "stance" to unpack the ways in which group members use parts of their individual stories to signal beliefs to others, present themselves in relation to the group, and signal virtues of moral authority on various pressing political issues. Building on these analyses, Zentz goes on to address ways in which the scales of politics are being navigated and modified at the grassroots level in our highly networked world. This book contributes to ongoing conversations about the realities of internet use within linguistic anthropology and new media studies, and how researchers might seek to account for social media use and access to this data as these technologies develop further. This book is key reading for students and scholars in linguistic anthropology, media studies, and activism and social movement studies.

Python for Algorithmic Trading Yves Hilpisch 2020-11-12 Algorithmic trading, once the exclusive domain of institutional players, is now open to small organizations and individual traders using online platforms. The tool of choice for many traders today is Python and its ecosystem of powerful packages. In this practical book, author Yves Hilpisch shows students, academics, and practitioners how to use Python in the fascinating field of algorithmic trading. You'll learn several ways to apply Python to different aspects of algorithmic trading, such as backtesting trading strategies and interacting with online trading platforms. Some of the biggest buy- and sell-side institutions make heavy use of Python. By exploring options for systematically building and deploying automated algorithmic trading strategies, this book will help you level the playing field. Set up a proper Python environment for algorithmic trading Learn how to retrieve financial data from public and proprietary data sources Explore vectorization for financial analytics with NumPy and pandas Master vectorized backtesting of different algorithmic trading strategies Generate market predictions by using machine learning and deep learning Tackle real-time processing of streaming data with socket programming tools Implement automated algorithmic trading strategies with the OANDA and FXCM trading platforms

China's e-Science Blue Book 2020 Chinese Academy of Sciences 2021-01-08 "China's e-Science Blue Book 2020" has been jointly compiled by the Chinese Academy of Sciences, Cyberspace Administration of China, Ministry of Education of the PRC, Ministry of Science and Technology of the PRC, China Association for Science and Technology, Chinese Academy of Social Sciences, National Natural Science Foundation of China and the Chinese Academy of Agricultural Sciences. It was focusing on the new situation, new progress and new achievements of China's e-Scientific in the past two years. During the "13th Five-Year Plan" period, Chinese scholars make full use of advanced information technology to carry out scientific research work, and have achieved a series of major scientific and technological achievements. This book has collected 28 research reports about China's e-Science application in the past two years to introduce the application in the frontier research of science and technology, the progress of e-Science in major projects and the achievements of informatization in interdisciplinary. As such it provides a valuable reference resource for researchers and students in this area and promotes further e-Science research.

Communication in the Age of the COVID-19 Pandemic Theresa MacNeil-Kelly 2021-11-03 Communication in the Age of the COVID-19 Pandemic centers around changes in communication as a byproduct of the COVID-19 pandemic. Specific contexts include changes in our intimate relationships and changes in how media outlets communicate to audiences.

The Environmental Impact of Cities Fabricio Chicca 2022-12-29 The Environmental Impact of Cities assesses the environmental impact that comes from cities and their inhabitants, demonstrating that our current political and economic systems are not environmentally sustainable because they are designed for endless growth in a system which is finite. It is already well documented that political, economic and social forces are capable of shaping cities and their expansion, retraction, gentrification, re-population, industrialisation or de-industrialisation. However, the links between these political and economic forces and the environmental impact they have on urban areas have yet to be numerically presented. As a result, it is not clear how our cities are affecting the environment, meaning it is

currently impossible to relate their economic, political and social systems to their environmental performance. This book examines a broad selection of cities covering a wide range of political systems, geography, cultural backgrounds and population size. The environmental impact of the selected cities is calculated using both ecological footprint and carbon emissions, two of the most extensively available indices for measuring environmental impact. The results are then considered in terms of political, economic and social factors to ascertain the degree to which these factors are helping or hindering the reduction of the environmental impact of humans. This book will be of great interest to students and scholars of sustainability, urban planning, urban design, environmental sciences, geography and sociology. *Geopolitical Risk, Sustainability and "Cross-Border Spillovers" in Emerging Markets, Volume II* Michael I. C. Nwogugu 2022-01-01 Many emerging market countries are bank-based economies and are increasingly affected by geopolitical risks, U.S. dollar dynamics, regulations, preferential trade agreements (PTAs), MNCs (that often function like international organizations), social networks, labor dynamics, cross-border spillovers and the inefficient expansion of formal/informal microfinance. Country risks, informal economies (that account for 20-50 percent of the national economy of many emerging market countries), investor protection, enforcement commitment, compliance costs, sustainability (environmental, social, economic and political sustainability), economic growth, political stability, financial stability, geopolitical risk, social networks, household economics, inequality and international trade outcomes can vary dramatically across many DECs and LDECs due to these phenomena. The COVID-19 pandemic has illustrated the many problems inherent in political systems, economic policy and governments' emergency powers during pandemics/epidemics and economic/financial crisis. This second volume focuses on geopolitical risks that are intertwined with constitutional political economy and labor issues, alongside addressing some of the financial and constitutional crises that occurred in Europe, Asia and the U.S. during 2007-2020. This book provides analysis of complex systems and the preferences and reasoning of state/government and corporate actors in order to develop better artificial intelligence and decision-system models of geopolitical risk, public policy and international capital flows, all of which are increasingly important decision factors for investment managers, boards-of-directors and government officials. A President's Daily Brief: Year 4 Micah Fisher-Kirshner

What was daily life under the Trump presidency really like?

An accessible ebook with short, thematic entries showing the corruption of the Trump presidency, *A President's Daily Brief, Year 4: The Day-by-Day Lurch of Trump's Norm-Breaking Presidency* is the fourth in Micah Fisher-Kirshner's series, representing the fourth and final year of Trump's time in power and the subversion that occurred. More than a compiled list of significant events that portray Trump as the most corrupt American president, this digestible and scannable read of in-the-moment posts pulled from news outlets and credible sources provides an intimate look at how the administration went about breaking the presidential norms on a daily basis. Readers also will have access to citations to fact-check claims.

This quick read on a Trump presidency that started off with outrage and graduated to righteous indignation is a must-have for those who enjoy history, politics, and government or simply want to read about the most notorious presidency in history.

Insight Turkey 2020/03 - Transformation of Turkey's Defense Industry 2020-10-01 Turkey's contemporary defense and military strategy can be best understood as a result of the historical process the country has experienced. This historical process has significantly altered the security environment surrounding Turkey while transforming her alliance relations, ultimately producing a new political vision for the country and a defense and military strategy that serves this vision. Firstly, although the end of the Cold War and the ensuing dissolution of the Soviet Union has ameliorated international security, Turkey was faced with both conventional and asymmetric threats on multiple fronts. This situation kept defense spending of the country at record levels despite military expenditures within NATO showing a rapid decline. On the other hand, the emerging political geography led to a series of new conflicts erupting in several hotspots, from the Balkans through to the Caucasus and the Middle East. Emerging conflicts were thought to require a common response which precipitated NATO's evolution from a collective defense organization to a collective security organization. Concurrently, it meant that Turkey would actively join NATO's new missions ranging from the peaceful resolution of disputes to stability operations with expeditionary forces featured by mobility, jointness, and readiness. Secondly, the 9/11 terrorist attacks against the U.S. created profound ramifications for Turkey's regional security and her alliance relations. In particular, the American military occupation of Iraq jeopardized Turkey's national security by effectively removing the political authority of that country and dismantling the Iraqi army. While the emerging political vacuum was filled by sectarian politics, the scarcity of security was exploited by the PKK, consolidating its presence in northern Iraqi territories. Divided Iraq has also transformed into a breeding ground for international terrorism which resulted in the rise of various extremist armed organizations, including ISIS. Thirdly, since the so-called Arab spring started in the early 2010s, the political and security landscape of the Middle East and North Africa has undergone significant changes. While the overthrow of dictators led to intra-state conflicts in several places, it was particularly the civil war in Syria that alarmed Turkish decision-makers due to its transformation into a safe haven for various terrorist groups operating at Turkey's southern frontiers. Bereft of concrete ally support, Turkey unilaterally launched military operations into northern Syria in order to eliminate ISIS elements as well as curbing the long-term territorial ambitions of the PKK. The Arab spring has also aggravated previous tensions and engendered various factions that facilitated new alignments which is the case for today's Eastern Mediterranean and Arab-Israeli relations. Against the backdrop of these considerations, Turkey's contemporary defense and military strategy has been formed. In general, this strategy lays down the principles of using military force to support the political aims of the country. It operates as a "bridge" between policy and operation, in a classical sense. And that strategy is now not just informed by protecting the territorial integrity of the nation but has wider objectives, including enhancing the country's international standing as well as achieving strategic autonomy. This in turn has necessitated new tools that extend beyond a sole deterrent force, namely military activism, and defense industry investments, along with the contribution to international security and commitments to the NATO alliance. The summer issue of Insight Turkey aims to explain the changing dynamics of Turkey's military and defense strategy by taking into consideration current foreign and security policy practices of Turkey in the Middle East and North Africa region. More specifically, this issue is an attempt to develop a new framework to understand Turkey's revolution in its military and defense strategies. Hulusi Akar, the Minister of National Defense of Turkey, in his commentary sheds light on the global and regional developments that threaten Turkey's peace and stability and which contributed to shaping its defense strategy. A strategy that targets finding common solutions to international problems in a collaborative way. Akar gives special attention to the contribution of the distinguished, deterrent, efficient, motivated, well-trained, and disciplined Armed Forces that are equipped with high-level weaponry produced domestically using national resources. Within the context of the Turkish Defense Industry's strong historical background, İsmail Demir highlights the transformation and rationality of the Turkish Defense Industry. He emphasizes the necessity of addressing the recent rise of the Turkish Defense Industry in two different but interrelated periods. The first provided the defense industry with strong support with an extremely decisive and long-term projection. The second represents the transformation of the expectations from the defense industry, in coordination with the changing position and function of the defense industry in bureaucratic mechanisms. Michaël Tanchum's commentary is a coherent and rigorous analysis of the logical result of Turkey's post-Cold War strategic reorientation, presented in its new expeditionary capability of enhanced naval capacity and new forward bases. Michaël examines Ankara's challenge of calibrating the use of its hard power instruments to serve its post-Lausanne strategic orientation toward establishing Turkey-centered, inter-regional connectivity. In the middle of the COVID-19 global pandemic, Minister of Health of the Republic of Turkey, Fahrettin Koca, underscores the role of Turkey in the management of COVID-19. His commentary asserts that Turkey has successfully contained the COVID-19 pandemic and prevented devastating consequences due to its idiosyncratic approach to the crisis and the robustness of its healthcare system. After 85 years as a museum, Hagia Sophia welcomes Muslim worshippers', a decision that has drawn intense criticism in Turkey and worldwide. However, Deputy Minister of Foreign Affairs of the Republic of Turkey, Yavuz Selim Kıran, argues that the functional change of Hagia Sophia will not affect Turkey's centuries-old tradition of promoting tolerance, harmony, and diversity. The final off-topic commentary of this issue underlines the challenges to Pakistan's nuclear threshold. Muhammad Haris Bilal Malik and Muhammad Abbas Hassan explain why Pakistan has been further threatened by India's aggressive policies and provocative military modernization. The commentary concludes that Pakistan may be compelled to further revisit its nuclear threshold level to overcome India's aggression. Besides the commentaries, this issue comprises five articles that focus on the Turkish Defense Industry past, present, and future and underline the factors that led to its remarkable evolution. The first article by Murat Yeşiltaş presents a general framework of Turkey's Military and Defense Strategy. By taking into account the main drivers, primary objectives, and essential pillars, as well as its tangible repercussions on the military mindset, the author explains how the change in Turkey's defense and military strategy stems both from Turkey's changing security landscape and its quest to be an assertive regional player. Can Kasapoğlu's research article covers two interrelated strategic topics regarding Turkey's national military capacity in the 21st century: its defense technological and industrial base and its military policy, both currently characterized by a burgeoning assertiveness. In light of the rapid advances in technology that are continually shaping developments in the aerospace and defense sector, notably the evolution of airpower, Arda Mevlütoğlu, provides us with an understanding of the features of the next generation of air warfare, while presenting the status of the Turkish Air Force and offering suggestions on several challenges and opportunities. As a reply to the critics that Turkey is caught between a rock and a hard place due to the adamant opposition of its NATO allies, Mustafa Kibaroğlu tries to make sense of Turkey's S-400 choice by assessing the impact of the S-400 deal on Turkey's defense industries. On one hand, he presents his conception of the current "international political non-order" as an underlying factor behind the deal. On the other, he suggests that the deal must be approached from a wider perspective to grasp the extent of the service it has done in bolstering Turkey's military-industrial complex. The last article related to the main theme of this issue focuses on Turkey's defense spending. Merve Seren attempts to show that prioritization of defense spending during the AK Party era is specifically the outcome of a political preference. In other words, the shift in the political landscape from idealism to realism, associated with pragmatism. Our initial off-topic article highlights how Trump's peace plan optimistically called the "Deal of the Century" adopts the Zionist discourse regarding al-Aqsa and its effects on undermining the Muslim sovereignty over the mosque, which will be a clear violation of the International law and status quo. Khalid el-Awaisi and Cuma Yavuz investigate the results of the implementation of Trump's plan which they assert will lead to three main changes that would undo the centuries-old status quo of Masjid al-Aqsa completely and give Israel full control over this important historic and religious site. Ahmad AlShwawra and Ahmad Almuhtady's off-topic article completes the dossier of this issue. The authors examine the potential implications of Jordan's decision to import Mediterranean gas through Israel on Jordanian energy security, with special attention to how this decision will impact Jordanian foreign policy regarding the Palestinian cause. Through a wide range of articles and commentaries, this issue aims to bring to its readers a comprehensive framework on the transformation of Turkey's Defense Industry and changing patterns of its military strategy.

Ubuntu Linux Bible David Clinton 2020-10-19 The best reference for Ubuntu Linux Ubuntu Linux is a popular, powerful, and versatile operating system. Now you can get the most out of everything Ubuntu Linux has to offer with the Ubuntu Linux Bible. This complete and comprehensive guide introduces you to Ubuntu and shows you how to use it to its fullest, whether you're a typical desktop user or a system administrator. You'll learn to do everything from reading email to configuring wireless networks. You'll reap huge rewards from this book, regardless of how much prior experience you have with Ubuntu. Get started with Ubuntu Linux and see what's in the newest version (20.04) Learn how to read emails, surf the web, and create and publish documents Take on system administration tasks, like creating and managing users and adding new disks to the system Discover how to use Ubuntu Linux in an enterprise or personal environment Figure out how to set up Ubuntu Linux servers for the web, email, shared printing, and more Find out why Ubuntu Linux is the most popular Linux operating system in the world

Practical Linux Forensics Bruce Nikkel 2021-12-21 A resource to help forensic investigators locate, analyze, and understand digital evidence found on modern Linux systems after a crime, security incident or cyber attack. Practical Linux Forensics dives into the technical details of analyzing postmortem forensic images of Linux systems which have been misused, abused, or the target of malicious attacks. It helps forensic investigators locate and analyze digital evidence found on Linux desktops, servers, and IoT devices. Throughout the book, you learn how to identify digital artifacts which may be of interest to an investigation, draw logical conclusions, and reconstruct past activity from incidents. You'll learn how Linux works from a digital forensics and investigation perspective, and how to interpret evidence from Linux environments. The techniques shown are intended to be independent of the forensic analysis platforms and tools used. Learn how to: Extract evidence from storage devices and analyze partition tables, volume managers, popular Linux filesystems (Ext4, Btrfs, and Xfs), and encryption Investigate evidence from Linux logs, including traditional syslog, the systemd journal, kernel and audit logs, and logs from daemons and applications Reconstruct the Linux startup process, from boot loaders (UEFI and Grub) and kernel initialization, to systemd unit

files and targets leading up to a graphical login Perform analysis of power, temperature, and the physical environment of a Linux machine, and find evidence of sleep, hibernation, shutdowns, reboots, and crashes Examine installed software, including distro installers, package formats, and package management systems from Debian, Fedora, SUSE, Arch, and other distros Perform analysis of time and Locale settings, internationalization including language and keyboard settings, and geolocation on a Linux system Reconstruct user login sessions (shell, X11 and Wayland), desktops (Gnome, KDE, and others) and analyze keyrings, wallets, trash cans, clipboards, thumbnails, recent files and other desktop artifacts Analyze network configuration, including interfaces, addresses, network managers, DNS, wireless artifacts (Wi-Fi, Bluetooth, WWAN), VPNs (including WireGuard), firewalls, and proxy settings Identify traces of attached peripheral devices (PCI, USB, Thunderbolt, Bluetooth) including external storage, cameras, and mobiles, and reconstruct printing and scanning activity

The physical environment and health: Implications for the planning and management of healthy cities Linchuan Yang 2023-08-30

Computer Intelligence Against Pandemics Siddhartha Bhattacharyya 2023-08-07 This book introduces the most recent research and innovative developments regarding the new strains of COVID-19. While medical and natural sciences have been working instantly on deriving solutions and trying to protect humankind against such virus types, there is also a great focus on technological developments for improving the mechanism — momentum of science for effective and efficient solutions. At this point, computational intelligence is the most powerful tools for researchers to fight against COVID-19. Thanks to instant data-analyze and predictive techniques by computational intelligence, it is possible to get positive results and introduce revolutionary solutions against related medical diseases. By running capabilities — resources for rising the computational intelligence, technological fields like Artificial Intelligence (with Machine / Deep Learning), Data Mining, Applied Mathematics are essential components for processing data, recognizing patterns, modelling new techniques and improving the advantages of the computational intelligence more. Nowadays, there is a great interest in the application potentials of computational intelligence to be an effective approach for taking humankind more step away, after COVID-19 and before pandemics similar to the COVID-19 many appear.

Airborne Matt Margolis 2020-07-08 Starting with the Russian collusion hoax, the media never relented in their attempts to undermine Donald Trump's presidency. When the bogus impeachment ended with Trump's acquittal, they needed a new "scandal" to hang over his head. After largely ignoring the coronavirus outbreak, the media made it their Hail Mary attempt to sabotage President Trump. They claimed Trump's travel ban with China was racist, xenophobic, and unnecessary—then later blamed him for not implementing it sooner. They falsely claimed Trump called the coronavirus a hoax. They concocted a phony timeline to "prove" his response to the pandemic was slow. They deceptively edited Trump's words to create an impression that he was crazy or stupid. They even blamed him for the death of a man whose wife gave him fish tank cleaner. In Airborne: How The Liberal Media Weaponized The Coronavirus Against Donald Trump, Matt Margolis exposes and debunks these lies and fake narratives reported by the media in their desperate attempt to thwart Trump's reelection.

ONGLYZA Drug Profile, 2023 DrugPatentWatch 2023-08-15

ONGLYZA Drug Profile, 2023

This report focuses on ONGLYZA and covers the following critical aspects of this drug:

- United States patents
- Expired United States patents
- FDA Paragraph IV patent challenges
- District Court patent litigation
- Patent Trial and Appeal Board (PTAB) patent cases
- European supplementary protection certificates (SPCs)
- Clinical trials
- Drug prices
- Annual sales revenues
- Finished product suppliers
- Raw active pharmaceutical ingredient (API) sources

Advanced Manufacturing Processes V Volodymyr Tonkonogyi 2023-08-30 This book offers a timely snapshot of innovative research and developments at the interface between design, manufacturing, materials, mechanical and process engineering, and quality assurance. It covers various manufacturing processes, such as grinding, milling, broaching, and gear machining, including additive manufacturing, vibrational-centrifugal strengthening, laser-ultrasonic surface hardening, and antifriction coatings. It focuses on computer and numerical simulation, mathematical and integrated process modeling, parametric synthesis, virtual prototyping, automatic control, design of manufacturing, mechanical and mechatronics systems. It describes innovative cutting and abrasive processes and combined technologies. It also covers the formation, strengthening, and thermomechanical rolling. It also investigates the temperature field behavior, thermal stability, wear resistance, and other processes of various materials. Gathering the best papers presented at the 5th Grabchenko's International Conference on Advanced Manufacturing Processes (InterPartner-2023), held on September 5–8, 2023, in Odessa, Ukraine, this book provides a comprehensive and up-to-date examination of design, manufacturing, mechanical, materials, and process engineering, as well as quality assurance trends and technologies. Yet, it also aims at fostering international and interdisciplinary communication and collaborations, offering a bridge between the academic and industrial sector.