

Results 2023

Cybernetics and Control Theory in Systems

Addressing key issues in modern cybernetics and informatics, this book presents vital research within networks and systems. It offers an extensive overview of the latest methods, algorithms, and design innovations. This book compiles the meticulously reviewed proceedings of the Networks and Systems in Cybernetics session of the 13th Computer Science Online Conference 2024 (CSOC 2024), held virtually in April 2024.

Sustainable Aviation Fuels

This book is proposed to be a collection of excellently peer-reviewed research from the 2023 14th International Conference on Environmental Science and Development (ICESD 2023), which will be held during May 25-27, 2023, in Xiamen, China. ICESD 2023 will gather innovative academics and industrial experts to a common forum to facilitate the exchange of scientific information and its application in the field of Environmental Science and Sustainable Development. Particularly, a large amount of the research is related to the Water Governance Programme which is an initiative as developed by the China International Center for Economic and Technical Exchanges, United Nations Development Programme, and Coca-Cola China. Recently, effects of energy crisis, water scarcity, environmental pollution, climate change, COVID-19 pandemic, and their interactions on eco-environment and health have caused extraordinary risks in socio-economic and environmental systems (SEE). Such risks feature dynamic, uncertain, and interactive characteristics. In order to tackle these risks, cutting-edge technologies, including both experimental approaches and modeling ones, are desired urgently. Particularly, nature-based solutions will be developed to help achieve net-zero emission and United Nations Sustainable Development Goals. In addition, data-driven and AI-based methodologies will be developed to facilitate policy analysis of SEE under New Normal scenarios. Furthermore, the combinations of multiple approaches are expected to support the enhancement of SEE resilience in a post-pandemic future. Consequently, ICESD 2023 will include presentations in the field of Water Resources Management, Wastewater Treatment, Drinking Water Safety, Energy and Environmental Systems Analysis, Air Pollution Control, Solid Waste Management, Sustainable Development, Ecosystem Restoration, Climate Change Adaptation, and Socio-economic and Environmental Management. Excellent papers related to these topics would be enclosed in this proposed book.

14th International Conference on Environmental Science and Development (ICESD2023)

Proficiency testing (PT) has been part of Immunogenetics since its early days. Starting from spontaneous interlaboratory comparisons, it gradually moved to more elaborate quality control exercises. Immunogenetics PT finally evolved into a formalized system comprising a range of testing schemes, the rules of which have been fine-tuned and approved with the assistance of professional societies. Current external PT (EPT) schemes offer to survey laboratory performance in all spectra of Histocompatibility and Immunogenetics (H & I) applications, ranging from HLA typing at various resolution levels, to detection and identification of HLA antibodies and crossmatching, to name the most sought categories. Successful performance in EPT has been considered a prerequisite to laboratory accreditation. EPT has been vital to patient care by ensuring valid, clinically relevant typing data is obtained according to recognized standards. In prevailing opinion, participation in EPT contributes to increased laboratory organization and enhanced lab-wide comprehension of the significance of laboratory work in clinical settings. Secondly, experience with proficiency testing may help raise scientific research quality by emphasizing data validity. The Editors invite all members of

histocompatibility and immunogenetics communities, who have been involved in various aspects of PT, to submit manuscripts: - describing the state of the art of H & I PT, - surveying options available for interested laboratories in diverse continents/regions, - reporting the experiences of PT participants and/or PT providers, - assessing the awareness of, and/or states of, PT issues in the community, etc. - Proposing new areas for PT in H & I. Opinion and Perspective articles discussing the future of Proficiency testing are welcome, along with reviews and original manuscripts. Contributions may be based on solid research data; however, a personal reflection of experience from participation in or organizing a PT scheme would be also interesting to readers and welcomed by The Editors.

Proficiency testing in Histocompatibility and Immunogenetics: current status and future perspectives

This volume E-Learning and Enhancing Soft Skills is a collection of articles by participants of the 16th annual scientific international conference “Theoretical and Practical Aspects of Distance Learning: E-Learning and Enhancing of Soft Skills. This conference, held on the 14th and 15th October 2024 in hybrid mode, is organized by the Faculty of Arts and Educational Sciences in Cieszyn, the Faculty of Social Sciences, the Institute of Pedagogy, the Faculty of Science and Technology, the Institute of Computer Science, University of Silesia in Katowice, Poland. Co-organizers and partners included: University of Ostrava (UO), Czech Republic, Silesian University in Opava (SU), Czech Republic, Constantine the Philosopher University in Nitra (UKF) Slovakia, University of Extremadura (UEX), Spain, University of Twente (UT), The Netherlands, Lisbon Lucíada University (LU), Portugal, Curtin University in Perth (CU), Australia, Borys Grinchenko Kyiv University (BGKU), Ukraine, Dniprovsk State Technical University (DSTU), Ukraine, IADIS - International Association for Development, of the Information Society, a non-profit association, Polish Pedagogical Society, Branch in Cieszyn, Polish Scientific Society for Internet Education, Association of Academic E-learning, Poland. Experts on e-learning from different countries provide insights into their studies, present their recent research results and discuss their further scientific work. The authors include experts, well-known scholars, young researchers, highly trained academic lecturers with long experience in the field of e-learning, AI and robotics in education, MOOCs, teacher training an area digutak and soft skills, m-learning, smart technologies, VR/AR; PhD students, distance course developers, authors of multimedia teaching materials, designers of websites and digital educational resources. This monograph therefore describes the theoretical, methodological and practical issues in the field of e-learning and the developing of key competencies and soft skills, contemporary models of education in the era of artificial intelligence, proposing solutions to important problems and showing the road to further research in this field. Built from the findings of an international retinue of scholars, this work will be of particular interest to academic researchers, educators, courseware designers, corporate trainers, and educational technology practitioners.

E-Learning and Enhancing Soft Skills

Artificial intelligence (AI) in medicine is rising, and it holds tremendous potential for more accurate findings and novel solutions to complicated medical issues. Biomedical AI has potential, especially in the context of precision medicine, in the healthcare industry’s next phase of development and advancement. Integration of AI research into precision medicine is the future; however, the human component must always be considered. Explainable Artificial Intelligence in Medical Imaging: Fundamentals and Applications focuses on the most recent developments in applying artificial intelligence and data science to health care and medical imaging. Explainable artificial intelligence is a well-structured, adaptable technology that generates impartial, optimistic results. New healthcare applications for explicable artificial intelligence include clinical trial matching, continuous healthcare monitoring, probabilistic evolutions, and evidence-based mechanisms. This book overviews the principles, methods, issues, challenges, opportunities, and the most recent research findings. It makes the emerging topics of digital health and explainable AI in health care and medical imaging accessible to a wide audience by presenting various practical applications. Presenting a thorough review of state-of-the-art techniques for precise analysis and diagnosis, the book emphasizes explainable

artificial intelligence and its applications in healthcare. The book also discusses computational vision processing methods that manage complicated data, including physiological data, electronic medical records, and medical imaging data, enabling early prediction. Researchers, academics, business professionals, health practitioners, and students all can benefit from this book's insights and coverage.

Explainable Artificial Intelligence in Medical Imaging

This book analyzes how the use of digital media by young children can affect their development. Children are starting to use digital media at an earlier age and this use is increasing. With the adoption of technology moving so quickly, research in the area also needs to evolve, and new theoretical and methodological approaches are needed. This book aims to contribute to this field of study by presenting new theoretical frameworks and methodological approaches to help advance research; by discussing results of empirical studies carried out with young children and their caregivers; and by proposing possible interventions to help parents and caregivers better oversee their children's digital media use. Chapters in this volume are divided into five parts. The first part is dedicated to discussing theoretical and methodological issues involved in the study of digital media use by young children. The second part presents empirical studies that investigate the potential impacts of digital media use in child development. The third part brings together studies analyzing digital media use and early child development during the COVID-19 pandemic. Chapters in the fourth part analyze how digital media use affects parenthood. And the fifth and final part presents proposals of educational interventions to help parents and caregivers oversee their young children's digital media consumption. *Digital Media and Early Child Development: Theoretical and Empirical Issues* will be of interest to different kinds of researchers and practitioners working with child, family and media studies. Researchers in the fields of developmental psychology and media studies will find innovative theoretical and methodological proposals to study how young children interact with digital media. While child and family psychologists, social workers and pediatricians will find useful information to understand when digital media use can cause problems to children and their families.

Digital Media and Early Child Development

Benin's strong reform drive and sound macroeconomic management over the past several years have provided policy space to bolster resilience to repeated shocks. The authorities started rebuilding policy buffers last year and recently regained access to the international capital market after a two-year hiatus. Budget support has consistently exceeded expectations. While the country's reform program—supported by the ECF (2017–20) and the ongoing EFF/ECF (2022–25)—has generated tangible macroeconomic dividends and improved aggregate social outcomes, large disparities have persisted across regions and income groups. A key challenge ahead is how to leverage the initial government's impetus to pursue the transition to private sector-led growth that benefits all Beninese.

Benin

How's Life? assesses whether life is getting better for people living in OECD countries and whether progress has been sustainable and inclusive. This sixth edition presents the latest evidence from over 80 indicators covering current well-being outcomes, inequalities, and resources for future well-being. It contrasts medium-term trends in well-being outcomes with developments since 2019 to understand the impact of the COVID-19 pandemic and the cost-of-living crisis, and to outline warning signs that require policy attention. While government interventions to address the economic impact of these shocks have contributed to the resilience of average incomes and employment outcomes, cost-of-living pressures as evidenced by housing costs and people's self-reported financial insecurity remain significant for many households. At the same time, there are warning signs in critical non-economic aspects of well-being – most notable in health, subjective well-being and social connectedness. Well-being inequalities between population groups run deep. Though most many well-being gaps by age and gender have narrowed over the past decade, in some cases this was because outcomes for younger people and men declined to a comparatively larger extent. Much stronger action is also

needed to maintain today's well-being for future generations, particularly when it comes to combatting climate change.

How's Life? 2024 Well-being and Resilience in Times of Crisis

Organizational Management Sustainability in VUCA Contexts is an insightful and comprehensive book that delves into the complex interplay between sustainability and the challenging landscapes of Volatility, Uncertainty, Complexity, and Ambiguity (VUCA). With a focus on bridging the gap between present and future generations, this book navigates the intricate web of economic success, social development, environmental health, and societal stability. Drawing upon a blend of theoretical foundations and practical examples, this book aims to unravel the phenomenon of sustainability in VUCA contexts by analyzing both exemplary and detrimental management practices across public and private sectors. Through a series of meticulously crafted chapters, the authors assess, treat, communicate, monitor, review, and discuss the methods, best practices, and requisite conditions for fostering sustainable organizations. Targeting a diverse audience of academics, policy makers, and entrepreneurs, this book serves as an invaluable resource for academic institutions, students specializing in business disciplines, and organizations in both public and private spheres. Moreover, anyone with a vested interest in contemporary business issues, prospective strategies, organizational sustainability, and economies in VUCA situations will find this book an indispensable guide.

Organizational Management Sustainability in VUCA Contexts

Oman is diversifying its economy, reducing reliance on hydrocarbons by expanding sectors like agriculture, fisheries, banking and manufacturing. Strategic reforms, infrastructure investment and a focus on sustainability are driving growth. The government is also boosting ICT, education, health care and tourism, positioning Oman for long-term competitiveness and economic stability.

The Report: Oman 2025

The microbiome plays an indispensable role in our health. Pathophysiological alterations in the gut microbiota has been linked with the development and maintenance of non-communicable diseases, such as obesity, cancer, type 2 diabetes mellitus, cardiovascular diseases, and metabolic syndrome. In order to better investigate the interactions between human health/disease and microbiota and given the practical and ethical complexity of performing invasive sampling procedures in human subjects, different types of animal models have been developed and are frequently used to investigate the multiple dynamics of host-microbiome interactions. Due to the similar organ size and similar metabolic characteristics of pigs and humans, pigs are considered to be a more suitable model for basic biomedical research studies and for studying human-related metabolic diseases than rodents. The anatomical characters, physiological traits, genetics and biochemical indices of pigs are similar to what is reported in humans, thus, pig can be used as a model animal to characterize human gut microbiota and for studying several human diseases. The swine intestinal tract harbours trillions of diverse microorganisms, which get involved in regulating host nutrient digestion, energy absorption, and disease development, and is considered to be one of the main model animal of human obesity and disease research. Since the gastrointestinal organs of pigs are closer to humans, we also use pigs as a model for studying the role of functional foods in intestinal pathophysiology and related indicators of the physical barrier, biochemical barrier, immunological barrier and gut microbiota. Pigs are also the best animal models for exploring the mechanisms underlying human nutrient digestion and absorption, metabolism, and disease treatment. Large animal models such as piglets have been also used to study neonatal diet impact on gut, microbiota and immune system. Pigs and piglets are also convenient models for exploring avenues for developing novel microbial therapies. Pigs and piglets represent hence some of the most widely used animal models for studying the impact of microbiota on its host, and for exploring the dynamics of host-gut microbiome interactions and the roles of human gut microbiota in human health and disease development.

Exploring the Influence of Gut Microbiome on Human Health: Mechanistic Insights from Pig Models

This prescient Encyclopedia outlines the breadth and depth of the burgeoning field of energy economics. Entries cover a wide range of topics including traditional and renewable energy sources, environmental impacts, energy efficiency, market structures and the economic implications of energy transitions. This title contains one or more Open Access chapters.

Elgar Encyclopedia of Energy Economics

This edited volume encompasses chapters on novel and innovative research in the applications of leading digital technologies in an accessible and engaging way. By utilising cutting edge and ever progressive technology in visualization, it will enhance our understanding and application in our everyday lives. This volume shows how we can use Extended Reality, 3D animations and serious games to benefit the learner, educator, clinician, patient, parent and carer. Visualization techniques like Virtual, Augmented and Mixed Reality and show how they can be utilised to improve training and understanding of anatomy, surgery, and clinical assessment. This is covered specifically for emergency practitioners in enhancing their understanding of ECG's for potential myocardial infarction by using augmented reality. From a translational medicine perspective and pre-operative pediatric surgical planning, the benefits of augmented reality are examined as to what might be found intra-operatively from imaging techniques. Educational applications of digital technologies using serious games and Extended Reality are examined. We show how Mixed Reality can aid understanding in cellular anatomy for our learners and researchers alike. We also show how serious games can have applications in diverse areas like parasite infections and neuroanatomy education and training. Finally, from a clinical perspective, the use of 3D animations and their applications is discussed for vertebral fractures and increasing parent/carer awareness through interactive applications. Also, the use of 3D animations in cerebral magnetic resonance angiography for global education highlights the great benefits of these tools and technologies. There is something for the researcher, clinician, educator, patient, and carer as we explore novel technologies. These are applied locally, nationally and globally as we advance our understanding of the world changing influence that digital technologies have on our day-to-day life.

Medical Visualization and Applications of Technology ? Volume 2

Corrosion is a major cause of structural degradation in buildings and infrastructure, leading to significant impacts to the economy and public safety. Concern is growing about the deterioration and corrosion of critical infrastructure, such as towers, bridges, highways and tall buildings. Monitoring and addressing the condition of such assets requires an understanding of corrosion and the factors that may influence it. However, this is a complex issue spanning multiple disciplines, including engineering, materials science, architecture and construction. Starting with the underlying chemical processes and common corrosion challenges, this book explores the nature of corrosion in a range of structures and their environmental, material and maintenance aspects. Effective inspection methods are explored, with practical strategies for mitigation and remediation. New opportunities with machine learning and artificial intelligence are also discussed, offering innovative solutions and making this an essential reference for anyone working on or studying the preservation of architectural structures and critical infrastructure.

Architectural Corrosion and Critical Infrastructure

As a leading Open Access publisher, Frontiers is committed to empowering not only scientists, but other researchers, innovators and members of the public. As such, highlighting sustainable development and the real-world applications of Drugs Outcomes Research & Policies are a key part to the agenda of Frontiers in Pharmacology. This Research Topic aims to highlight advancements in Health Economics and Outcomes Research (HEOR) techniques, methods and tools used by the pharmaceutical industry and other non-academic bodies.

Novel methods and technologies for the evaluation of drug outcomes and policies

Discrepant results are the most common results of mental health research, and may even occur multiple times in a single study. But what do discrepant results mean? How are researchers to make sense of them? Do they tell us something important about mental health, and if they do, how would we know? Discrepant Results in Mental Health Research challenges all that we think we know about mental health.

Discrepant Results in Mental Health Research

This is an open access book. Continuing the success of the previous ICOMESH, this year's conference will be held again in Bandar Lampung, Sumatra Island, Indonesia, hosted by University of Lampung. The 2024 conference, continuing the tradition and the goals of ICOMESH, consists of plenary presentations by leading researchers in health and experts from regulatory institutions, as well as research paper presentations. The theme of the 2024 conference is ?Life Sciences ?.

Proceedings of the International Conference on Medical Science and Health (ICOMESH 2024)

This is the 29th issue of the Springer's series Eurasian Studies in Business and Economics, which is the official book series of the Eurasia Business and Economics Society (EBES, www.ebesweb.org). This issue includes selected papers presented at the 42nd EBES Conference – Lisbon on January 12th, 13th, and 14th, 2023 hosted by the ISCTE-IUL Instituto Universitário de Lisboa. The conference was held both in hybrid with both in-person and online paper presentation format.

Proceedings of the 25th European Conference on Knowledge Management

You've Never Seen What You've Always Needed to Know – Until Now Invisible forces are at work. They push and shove on everything you buy or sell. They affect every concept you want to take to market, all the suppliers you'll deal with, and every customer you'll ever see. To be successful, you need to understand them. See them in detail in ways not possible with other methods. Hypernomics: Using Hidden Dimensions to Solve Unseen Problems discovers that markets behave according to previously unknown laws set by the buyers and sellers within them. It reveals those rules and how to detect, describe, and deploy them to your advantage. It doesn't change economics so much as reveal it. It's like a microscope looking at pond water, a telescope tilted to the sky, sonar scanning the bottom of the ocean. Hypernomics lets you see into markets in ways you can't with the unaided eye. Sailors never navigate without a map. You shouldn't either, since your ship could wind up on the rocks. Hypernomics gives you the means to create market maps that show you where they have openings and how to fill them by giving customers what they want, don't have, and can afford. It finds their thresholds and limits and responses to every possible feature in any product you can offer. The interactions Hypernomics describes have been with us since the dawn of humanity. Now you can finally see them and enjoy the advantages your competitors do not have. Validated by 13 published papers, multiple awards, a patent, and customers such as NASA, Lockheed Martin, Virgin Galactic, and a restaurant down the street, only Hypernomics gives you the ability to solve problems as varied as How could a restaurant increase revenue by 25% by rearranging seating? How do you find, describe, and capitalize on open spaces in your market? What happens when an NFL player decreases his forty-yard dash time by a quarter of a second? If you tried to exceed a market's limitations, how could you lose \$1B? How do markets change over time? Know what you need to. Discover Hypernomics.

Eurasian Business and Economics Perspectives

This book aims to capture the interest of researchers and professionals in information technology, computer science, and mathematics. It covers fundamental and advanced concepts related to intelligent computing

paradigms, data sciences, graph theory, and mathematical modeling. In high-performance computing, the need for intelligent, adaptive computing mechanisms and the integration of mathematical modeling in computational algorithms is becoming increasingly significant. Serving as a valuable resource for industry professionals, this book also supports beginners in gaining insights into enhanced computing paradigms and mathematical concepts, from foundational to advanced levels. Our objective is to provide a platform for researchers, engineers, academicians, and industry experts worldwide to share their findings on emerging trends. The authors believe this book not only presents innovative ideas but also fosters engaging discussions and inspires new perspectives.

Hypernomics

This book discusses the existing management approaches for dealing with changes, namely readiness, maturity, and resilience. Although these concepts have been discussed for several years now, their importance grows when companies must deal with extended changes in economies. The changes are of a different nature: social, technological, and political, and they strongly impact every aspect of economies and companies' activity. Is it possible to be ready for the changes? Should companies be resilient to disruption? These are the questions the managers are trying to answer, yet they need some support from academics. This book explores the synergy between the state-of-the-art knowledge and experience of companies to create a Contemporary Management Model. The scope of this book covers the methodology with an introduction and discussion of the key ideas and concludes with a presentation of the Contemporary Management Model followed by the practical validation and verification of the model based on case studies. This book is simply about developing the readiness and resilience of resources and processes, especially from a tactical perspective.

Proceedings of 4th International Conference on Mathematical Modeling and Computational Science

This 15-volume set LNCS 15031-15045 constitutes the refereed proceedings of the 7th Chinese Conference on Pattern Recognition and Computer Vision, PRCV 2024, held in Urumqi, China, during October 18–20, 2024. The 579 full papers presented were carefully reviewed and selected from 1526 submissions. The papers cover various topics in the broad areas of pattern recognition and computer vision, including machine learning, pattern classification and cluster analysis, neural network and deep learning, low-level vision and image processing, object detection and recognition, 3D vision and reconstruction, action recognition, video analysis and understanding, document analysis and recognition, biometrics, medical image analysis, and various applications.

Coping With Dynamic Business Environments

This two-volume set LNAI 14471-14472 constitutes the refereed proceedings of the 36th Australasian Joint Conference on Artificial Intelligence, AI 2023, held in Brisbane, QLD, Australia during November 28 – December 1, 2023. The 23 full papers presented together with 59 short papers were carefully reviewed and selected from 213 submissions. They are organized in the following topics: computer vision; deep learning; machine learning and data mining; optimization; medical AI; knowledge representation and NLP; explainable AI; reinforcement learning; and genetic algorithm..

Pattern Recognition and Computer Vision

This three-volume set, LNCS 14325-14327 constitutes the thoroughly refereed proceedings of the 20th Pacific Rim Conference on Artificial Intelligence, PRICAI 2023, held in Jakarta, Indonesia, in November 2023. The 95 full papers and 36 short papers presented in these volumes were carefully reviewed and selected from 422 submissions. PRICAI covers a wide range of topics in the areas of social and economic

importance for countries in the Pacific Rim: artificial intelligence, machine learning, natural language processing, knowledge representation and reasoning, planning and scheduling, computer vision, distributed artificial intelligence, search methodologies, etc.

AI 2023: Advances in Artificial Intelligence

Remote sensing and Geographic Information Systems (GIS) have become indispensable tools for understanding our planet's complex systems and addressing a wide range of environmental, social, and economic challenges. With several environmental and social factors coming to a head, it is important that our society utilizes every tool at its disposal in order to identify these issues and make comprehensive action plans in order to avoid negative social and environmental consequences. Applying Remote Sensing and GIS for Spatial Analysis and Decision-Making offers a comprehensive exploration of the applications of remote sensing, Geographic Information Systems (GIS), and emerging technologies in spatial analysis and decision-making across various domains. The book explores fundamental principles, methodologies, and advanced techniques pertinent to remote sensing and GIS, while also discussing the integration of emerging technologies such as unmanned aerial vehicles (UAVs), hyperspectral imaging, LiDAR, machine learning, and artificial intelligence (AI). Covering topics such as climate change modeling, land resources, and spatial data analysis, this book is an excellent resource for researchers and academicians, urban planners, practitioners, professionals, policy makers, postgraduate students and educators, and more.

PRICAI 2023: Trends in Artificial Intelligence

This book investigates the most common approach to assessing behavior in youth development. It explores use of multiple informants who each observe youth in the social contexts that typify their everyday lives, including parents, teachers, peers, and youth themselves. The volume characterizes the most common outcome from taking this assessment approach — the discrepant results or estimates about behavior that informants' reports often produce. Grounded in the Operations Triad Model — the foundational framework for contemporary scholarship about discrepant results — this book focuses on strategies that discrepant results compel scholars to implement, namely strategies for integrating these results. The book highlights that the integrative strategies scholars have historically used prevent them from capitalizing on the valid data that discrepant results often contain. This authoritative, thoroughly resourced, and methodologically rigorous book provides readers with integrative strategies that align with scholarship in youth development. In doing so, the book provides readers with a paradigm for testing competing data integration strategies, using a sophisticated suite of Monte Carlo Simulation and measurement validation tools that are applicable to a host of assessment scenarios in scholarship on youth development. Key areas of coverage include: Use of multiple informants to assess behavior in youth development. The frequent observation of discrepant results when assessing behavior in youth development. Theoretical models for explaining discrepant results in behavior assessments and how they inform strategies for integrating assessment data. Key distinctions in the assumptions that underlie the use of competing integrative strategies. Application of Monte Carlo Simulation strategies for testing competing integrative strategies. Implementation of measurement validation strategies that put competing integrative strategies to the test, within data conditions that typify research in youth development. Youth Development in Context is an essential resource for researchers, professors, graduate students as well as clinicians, therapists, and other professionals in developmental psychology, social work, public health, pediatrics, family studies, child and adolescent psychiatry, school and educational psychology, and all interrelated disciplines. This book investigates the most common approach to assessing behavior in youth development. It explores use of multiple informants who each observe youth in the social contexts that typify their everyday lives, including parents, teachers, peers, and youth themselves. The volume characterizes the most common outcome from taking this assessment approach — the discrepant results or estimates about behavior that informants' reports often produce. Grounded in the Operations Triad Model — the foundational framework for contemporary scholarship about discrepant results — this book focuses on strategies that discrepant results compel scholars to implement, namely strategies for integrating these results. The book highlights that the integrative strategies scholars have historically used prevent them from

capitalizing on the valid data that discrepant results often contain. This authoritative, thoroughly resourced, and methodologically rigorous book provides readers with integrative strategies that align with scholarship in youth development. In doing so, the book provides readers with a paradigm for testing competing data integration strategies, using a sophisticated suite of Monte Carlo Simulation and measurement validation tools that are applicable to a host of assessment scenarios in scholarship on youth development. Key areas of coverage include: Use of multiple informants to assess behavior in youth development. The frequent observation of discrepant results when assessing behavior in youth development. Theoretical models for explaining discrepant results in behavior assessments and how they inform strategies for integrating assessment data. Key distinctions in the assumptions that underlie the use of competing integrative strategies. Application of Monte Carlo Simulation strategies for testing competing integrative strategies. Implementation of measurement validation strategies that put competing integrative strategies to the test, within data conditions that typify research in youth development. Youth Development in Context is an essential resource for researchers, professors, graduate students as well as clinicians, therapists, and other professionals in developmental psychology, social work, public health, pediatrics, family studies, child and adolescent psychiatry, school and educational psychology, and all interrelated disciplines.

Applying Remote Sensing and GIS for Spatial Analysis and Decision-Making

A technical assistance (TA) mission on external sector statistics (ESS) was conducted to the Statistics Department (SD) of Montserrat during October 14-25, 2024, as part of the Caribbean Regional Technical Assistance Centre (CARTAC) work program on ESS. The mission focused on assisting the SD in extrapolating the results of the low-season Visitor Expenditure Survey (VES) conducted by the SD and the Montserrat Tourism Division (MTD) to enhance estimates of travel exports for the balance of payments (BOP). The mission also provided support to improve statistics on trade in goods and international cooperation. In addition, the revised 2023 BOP (for dissemination in December 2024) was reviewed.

Youth Development in Context

This is an open access book. Praise for almighty God for giving us healthy and opportunity to carry out the Seminar and Workshop on Public Health Action. This event provides forums for disseminating and exchanging multidisciplinary research results in public health action. It covers all aspects of public health sciences, such as health literacy and health promotion, health system management, disease prevention, health care, health management, health informatics system, epidemiology, environment and occupational health, epidemiology, reproductive and sexual health, others specific health theme as well. This is the appropriate forum for professionals to discuss how to transfer knowledge into action since public health is about how to make people have adequate healthy behavior. This forum also provides workshop in action research and side meeting in health literacy. The paper presentation has solicited and gathered research submission related to all aspects of the seminar scope. All the submitted papers in proceeding were peer-reviewed by at least three international experts drawn from program committee scope. After the rigorous peer-review process, a total of 39 paper and abstract were reviewed on the basis of originality, significance, and clarity and were accepted for publication in the proceeding. The authors were from provinces in Indonesia and others countries; Thailand, Taiwan, and Korea. The interesting ideas can be found when reading the contents of proceeding and will inspire participant to bring the theories of public health into action. The program has prepared well to favor interactions among attendance coming from different background.

United Kingdom-Montserrat-British Overseas Territory

This is an open access book. Welcome to the 4th International Conference on Social Sciences and Law (ICSSL) 2024, where innovation meets inspiration and collaboration flourishes. Our conference stands as a beacon of knowledge, bringing together academics, researchers, professionals and enthusiasts from around the globe to engage in meaningful dialogue and shape the future. At the 4th ICSSL, we believe in the power of connection and the transformative potential of shared ideas. With a commitment to excellence and a

dedication to fostering growth, our conference serves as a platform for individuals and organizations to exchange insights, explore emerging trends, and forge lasting partnerships. Since 2021, ICSSL has been at the forefront of driving change and driving innovation in the fields of social sciences and law. Each year, our meticulously curated program features a diverse array of keynote speakers, presenters, and networking opportunities designed to inspire, educate, and empower our attendees. Whether you're a scholar or a professional, ICSSL offers something for everyone. Join us as we embark on a journey of discovery, collaboration, and transformation. Thank you for choosing ICSSL as your destination for insight, inspiration, and impact. We look forward to welcoming you to our community and sharing in the excitement of 2024.

Proceedings of the International Seminar and Workshop Public Health (ISWHOPHA 2023)

Schools and systems face unprecedented challenges, such as falling attendance, recruitment, and retention issues; the validity of external monitoring of schools; and the advent of artificial intelligence (AI). In *The Awkward Questions in Education*, Al Kingsley tackles the tough, often-avoided issues plaguing the sector today. Drawing on over 35 years of experience, Kingsley explores the deep-seated challenges that many in education encounter daily and opens critical conversations that we need to have if we're to enact real, sustainable change. Chapters address key questions such as the following: Are we teaching students the right skills for the future? Do we need more and different spaces to improve attendance and engagement? Is the system truly inclusive? How should we handle the integration of AI in classrooms? What can be done to solve the ongoing teacher recruitment and retention crisis? Featuring interviews with key stakeholders, including school leaders, policy-makers, teachers, and governors, this is a must-read for school leaders, multi-academy trusts (MATs), teachers, governors, trustees, and anyone passionate about the future of education.

Proceedings of the 4th International Conference on Social Sciences and Law (ICSSL 2024)

The growing emphasis on energy economics and renewable energy highlights critical challenges and opportunities in global sustainability. Fossil and renewable energy sources significantly influence political stability, urbanization, and climate change, making their management essential for energy security and environmental health. Renewable energy, though still secondary to fossil fuels in consumption, is rapidly gaining importance as countries invest in clean energy to reduce dependency and environmental impact. Developing policies that promote renewable energy use is vital to addressing poverty, fostering equality, and achieving sustainable development. *Geopolitical Landscapes of Renewable Energy and Urban Growth* examines the intersection of renewable energy policies, geopolitical chokepoints, and their influence on urbanization and global energy security. It highlights the importance of transitioning to renewable energy to address environmental challenges, reduce dependency on fossil fuels, and promote sustainable development across diverse regions. Covering topics such as artificial intelligence (AI), human capital, and wave energy, this book is an excellent resource for policymakers, energy economists, urban planners, environmental researchers, professionals, and more.

The Awkward Questions in Education

We once idolized tech entrepreneurs for creating innovations that seemed like modern miracles. Yet our faith has been shattered. We now blame them for spreading lies, breaking laws, and causing chaos. Yesterday's Silicon Valley darlings have become today's Big Tech villains. Which is it? Are they superheroes or scoundrels? Or is it more complicated, some blend of both? In *The Venture Alchemists*, Rob Lalka demystifies how tech entrepreneurs built empires that made trillions. Meta started as a cruel Halloween prank, Alphabet began as a master's thesis that warned against corporate deception, and Palantir came from a campus controversy over hateful speech. These largely forgotten origin stories show how ordinary fears and

youthful ambitions shaped their ventures—making each tech tale relatable, both wonderfully and tragically human. Readers learn about the adversities tech entrepreneurs overcame, the troubling tradeoffs they made, and the tremendous power they now wield. Using leaked documents and previously unpublished archival material, Lalka takes readers inside Big Tech’s worst exploitations and abuses, alongside many good intentions and moral compromises. But this story remains unfinished, and *The Venture Alchemists* ultimately offers hope from the people who, decades ago, warned about the risks of the emerging Internet. Their insights illuminate a path toward more responsible innovations, so that technologies aren’t dangerous weapons but valuable tools that ensure progress, improve society, and enhance our daily lives.

Air Force Manual

In today's business landscape, organizations recognize the importance of new strategies for effective management and performance evaluation. Traditional approaches to leadership and performance assessments are no longer sufficient in addressing the complex challenges and opportunities presented by rapid technological advancements, globalization, and shifting workforce expectations. As such, organizations are adopting more adaptive, data-driven, and employee-centric strategies to improve performance, foster innovation, and ensure sustainable growth. By embracing new methodologies in management and performance evaluation, companies can better align their goals with emerging trends, optimize productivity, and create a more agile, resilient organizational culture. *Evolving Strategies for Organizational Management and Performance Evaluation* explores the evolving strategies and theories behind organizational management and performance evaluation. It covers advanced management methodologies, focusing on practical approaches to improving organizational structures and evaluating employee performance. This book covers topics such as small and medium enterprises, management science, and employee performance, and is a useful resource for business owners, managers, computer engineers, academicians, data scientists, and researchers.

Geopolitical Landscapes of Renewable Energy and Urban Growth

There have been tremendous advancements in the Pharmacology of Infectious Diseases in recent years. These recent advancements underline the importance of a multidisciplinary approach in the study of infectious diseases. In order to explore this fast-growing area, *Frontiers* is launching a new series of Research Topics focusing on the evolution of methods, processes, scientific breakthroughs and technology advances in the field of Pharmacology of Infectious Diseases. In this article collection, we seek contributions exploring the changing context, the recent advances, the challenges, and the emerging new perspectives within the field.

The Venture Alchemists

As we know, cancer is an important disease threatening human health. According to the latest statistics in “Global Cancer Statistics 2020”, cancer is expected to overtake cardiovascular disease as the leading cause of premature death in most countries this century. That sounds pretty terrible, but it is believed that this situation should be better along with the advances in tumor biology. There is no doubt that biomarkers have very significant clinical implications, which can be used for early diagnosis, monitoring progress, and predicting the prognosis of cancer.

Evolving Strategies for Organizational Management and Performance Evaluation

Mathematical Modeling in Bioscience: Theory and Applications provides readers with the tools and techniques needed for mathematical modeling in bioscience through a wide range of novel and intriguing topics. The book concentrates on larger elements of mathematical modeling in bioscience, including topics such as modeling of the Topp-Leone new power generalized Weibull-G distribution family, vector-borne disease modeling, transmission modeling of SARS-COV-2 among other infectious diseases, pattern

formulation models, compartmental models for HIV/AIDS transmission, population models, irrigation scheduling models, and predator-prey models. Readers will discover a variety of new methods, approaches, and techniques, as well as a wide range of applications demonstrating key concepts in bioscience modeling. The book provides a leading-edge resource for researchers in a variety of scientific fields who are interested in mathematical modeling, including mathematics, statistics, biology, biomedical engineering, computer science, and applied sciences. - Provides key concepts for advanced mathematical methods for modeling in bioscience - Includes statistical, delay, random, and stochastic mathematical models - Focuses on broader aspects of mathematical models in bioscience - Presents readers with several types of dynamic representative applications

The Evolution in Pharmacology of Infectious Diseases: 2022

Biological activity, in the field of materials, mainly refers to the properties that can induce special biological and chemical reactions at the interface between materials and biological tissues, forming chemical bonds between materials and biological tissues. A bioactive material is a biomaterial that is able to participate in a regenerative process at the molecular level and dictate molecular and cellular events in a preferred and predictable way. In the process of biomineralization, the ability of biological material to chemically bond with living bone is an important index of the biomaterial, and the biological activity of the material in vivo is reflected by the simulated body fluid-SBF ability of apatite formed on the surface of the material. In the field of bone repair, bioactive materials such as hydrogels, agglomerates, and magnetic nanoparticles are playing an increasingly important role. Compared with traditional bone repair materials, bioactive materials have many advantages, such as high biocompatibility, simulation of the extracellular environment, and easy engineering modification. In addition, as a delivery system, bioactive materials are modified and engineered to be minimally invasive, targeted, and sustainably released. The above characteristics have important application value in the field of bone repair. This Research Topic aims to promote the use of bioactive materials in bone repair and recruit bioactive materials at the forefront of bone repair research. Here we discuss the properties and characterization of different kinds of bioactive materials. These materials mainly include 1) bioactive materials for the molecular mechanism of bone repair; 2) bioactive materials for targeted drug delivery systems; 3) bioactive materials for injection or microneedles. The establishment of this Research Topic hopes to further promote the interdisciplinary interaction between medicine and industry, as well as to promote the clinical transformation and application of new biological materials. In this Research Topic, we welcome researchers to submit perspectives, original articles, reviews, comments, case reports, and letters on the topic, including but not limited to the following topics: • new ways of preparing materials related to bone repair • advanced research on characterization, detection, and engineering modification of bioactive materials for bone repair • research on bioactive materials for bone repair through molecular mechanisms • research on bioactive materials for different interventions in bone repair • to summarize the current status of the application of bioactive materials in bone repair

New Progress in Cancer Biomarkers and Therapy

Mathematical Modeling in Bioscience

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