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This book showcases selected conference papers addressing the sustainable future of ASEAN from the perspectives of science and technology disciplines. In addressing the 17 Sustainable Development Goals (SDGs) envisioned by the United Nations in the domains of environment, health and well-being, posing potential means of reducing inequalities globally, the authors target specific issues and challenges confronting the fast-growing region of ASEAN and present suggestions for co-operation and commitment from governments, non-governmental organisations (NGOs) and society at large, in line with the ASEAN Vision 2020. Papers are selected from the 3rd International Conference on the Future of ASEAN (ICoFA) 2019, organised by Universiti Teknologi MARA in Malaysia, whose conference theme “Charting the Sustainable Future of ASEAN” enables intellectual discourse on sustainability issues from science and technology, as well as business and the social sciences. The selection of papers is published in two books, comprised of scholarly and practical insights on sustainability in ASEAN. This book from science and technology scholars is of interest to researchers and policymakers interested in sustainability developments in the ASEAN region.

The history of chemistry and pharmaceutical sciences is an impressive success story. The products of chemical

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and pharmaceutical industries are present everywhere in our everyday life. They help to pursue the modern way of living and they contribute to our high standard of living and safety, mobility, communication technologies, food, health, textiles and drinking water treatment, among many others. These products are labeled under the categories: pharmaceuticals, pesticides, detergents, fertilizers, dyes, paints, preservatives, food additives and personal care products, to name a few. Within these categories, groups of chemicals with similar structures can be found. However, often groups of chemicals with very different structures belong to the same category. For a long time the production of chemicals and pharmaceuticals, their usage and application was connected with the heavy pollution of the environment and serious health effects. At the end of the last century, it was realised that the products of chemical and pharmaceutical industries are presenting a new type of environmental pollution that may also pose a health risk to the consumer. Most chemicals are used in so-called open applications in excessive amounts e. g. for personal care, hygiene, plant protection, health and in textiles. In many cases such as scents, detergents, textile chemicals, surface disinfectants, pesticides and others it is unavoidable that these chemicals are released into the environment according to their intended use.

This book presents 15 selected contributions to the 22nd Evolutionary Biology Meeting, which took place in September 2018 in Marseille. They are grouped under the following major themes: · Origin of Life · Concepts

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and Methods · Genome and Phenotype Evolution The aims of these annual meetings in Marseille are to bring together leading evolutionary biologists and other scientists who employ evolutionary biology concepts, e.g. for medical research, and to promote the exchange of ideas and encourage interdisciplinary collaborations. Offering an up-to-date overview of recent advances in the field of evolutionary biology, this book represents an invaluable source of information for scientists, teachers and advanced students.

This book explores the prospects of rivaling ontological and epistemic interpretations of quantum mechanics (QM). It concludes with a suggestion for how to interpret QM from an epistemological point of view and with a Kantian touch. It thus refines, extends, and combines existing approaches in a similar direction. The author first looks at current, hotly debated ontological interpretations. These include hidden variables-approaches, Bohmian mechanics, collapse interpretations, and the many worlds interpretation. He demonstrates why none of these ontological interpretations can claim to be the clear winner amongst its rivals. Next, coverage explores the possibility of interpreting QM in terms of knowledge but without the assumption of hidden variables. It examines QBism as well as Healey's pragmatist view. The author finds both interpretations or programs appealing, but still wanting in certain respects. As a result, he then goes on to advance a genuine proposal as to how to interpret QM from the perspective of an internal realism in the sense of Putnam and Kant. The book also includes two philosophical

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interludes. One details the notions of probability and realism. The other highlights the connections between the notions of locality, causality, and reality in the context of violations of Bell-type inequalities.

A laboratory study that investigates how algorithms come into existence. Algorithms--often associated with the terms big data, machine learning, or artificial intelligence--underlie the technologies we use every day, and disputes over the consequences, actual or potential, of new algorithms arise regularly. In this book, Florian Jatón offers a new way to study computerized methods, providing an account of where algorithms come from and how they are constituted, investigating the practical activities by which algorithms are progressively assembled rather than what they may suggest or require once they are assembled.

The monograph focuses on the typological differences between the four most widely spoken Romance languages (Spanish, Portuguese, French and Italian) and Czech. Utilizing data from InterCorp, the parallel corpus project of the Czech National Corpus, the book analyses various categories (expression of potential non-volitional participation, iterativity, causation, beginning of an action and adverbial subordination) to discover differences and similarities between Czech and the Romance languages. Due to the massive amount of data mined, as well as the high number of languages examined, the monograph presents general and individual typological features of the four Romance languages and Czech that often exceed what has previously been accepted in the field of comparative

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linguistics.

This book presents comparisons of recent accounts in the formalization of natural language (dynamic logics and formal semantics) with informal conceptions of interaction (dialogue, natural logic and attribution of rationality) that have been developed in both psychology and epistemology. There are four parts which explore: historical and systematic studies; the formalization of context in epistemology; the formalization of reasoning in interactive contexts in psychology; the formalization of pathological conversations. Part one discusses the Erlangen School, which proposed a logical analysis of science as well as an operational reconstruction of psychological concepts. These first chapters provide epistemological and psychological insights into a conceptual reassessment of rational reconstruction from a pragmatic point of view. The second focus is on formal epistemology, where there has recently been a vigorous contribution from experts in epistemic and doxastic logics and an attempt to account for a more realistic, cognitively plausible conception of knowledge. The third part of this book examines the meeting point between logic and the human and social sciences and the fourth part focuses on research at the intersection between linguistics and psychology.

Internationally renowned scholars have contributed to this volume, building on the findings and themes relevant to an interdisciplinary scientific project called DiaRaFor (“Dialogue, Rationality, Formalisms”) which was hosted by the MSH Lorraine (Lorraine Institute for Social Sciences and Humanities) from 2007 to 2011.

The rate of growth of stainless steel has outpaced that of other metals and alloys, and by 2010 may surpass aluminum as the second most widely used metal after carbon steel. The 2007 world production of stainless steel was approximately

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30,000,000 tons and has nearly doubled in the last ten years. This growth is occurring at the same time that the production of stainless steel continues to become more consolidated. One result of this is a more widespread need to understand stainless steel with fewer resources to provide that information. The concurrent technical evolution in stainless steel and increasing volatility of raw material prices has made it more important for the engineers and designers who use stainless steel to make sound technical judgments about which stainless steels to use and how to use them.

Centering on theory and practice, this text presents tools and techniques most suited for modern project management. The authors show the relationship between project planning and implementation, from budgeting to scheduling and control. This reference is intended for undergraduate and graduate students in engineering or business.

Machine learning deals with the issue of how to build computer programs that improve their performance at some tasks through experience. Machine learning algorithms have proven to be of great practical value in a variety of application domains. Not surprisingly, the field of software engineering turns out to be a fertile ground where many software development and maintenance tasks could be formulated as learning problems and approached in terms of learning algorithms. This book deals with the subject of machine learning applications in software engineering. It provides an overview of machine learning, summarizes the state-of-the-practice in this niche area, gives a classification of the existing work, and offers some application guidelines. Also included in the book is a collection of previously published papers in this research area.

Quality assurance of pharmaceutical products is a continuing concern of WHO. Despite efforts made around the world to ensure a supply of quality and effective medicines,

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substandard, spurious and counterfeit products still compromise health care delivery in many countries. To respond to the global need for adequate quality assurance of pharmaceuticals, WHO's Expert Committee on Specifications for Pharmaceutical Preparations has over the years made numerous recommendations to establish standards and guidelines and to promote the effective functioning of national regulatory and control systems and the implementation of internationally agreed standards by trained personnel. Many of the relevant documents endorsed by the Committee are reproduced in this volume providing guidance covering all aspects of good manufacturing practices (GMP). Important texts on inspection are also included. Most of the material has been published separately in the Expert Committee's reports. This compendium brings it together to make it more accessible and of greater practical value to those working in faculties of pharmacy, in medicines regulation and control and in the pharmaceutical industry. This is the second updated edition of the compendium and includes texts published in 2005 and 2006 in the WHO Technical Report Series.

Colon Cancer Cells brings together fundamental research and clinically relevant issues in the cell biology of colon cancer. This book is composed of five parts encompassing 21 chapters that specifically describe the initiation and progression of colon cancer cells. After briefly dealing with the major issues in colorectal carcinoma, this book goes on presenting the in vitro and in vivo models of colon carcinogenesis. This topic is followed by a discussion on the history of the development and characterization of commonly used colon cancer cell lines. The following parts describe the biochemical and immunological features and hormones in the colon. These parts also consider the studies on human colon tumors xenografted into nude mice and the biology and treatment of colorectal cancer metastasis. Discussions on the

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application of human monoclonal antibodies to tumor detection; the expression of blood group-related carbohydrates by normal, premalignant, and malignant colonic tissues; and the correlation of antigen variability in colon carcinoma with certain diagnostic and prognostic parameters are also included in these parts. The concluding part examines various therapeutic strategies and their potential in improving patient management with advanced colon carcinoma. Researchers, clinicians, and students interested in the biology of colon cancer development and in gastrointestinal cell biology will find this book invaluable.

Conditional constructions have long fascinated linguists, grammarians and philosophers. In this pioneering new study, Barbara Dancygier and Eve Sweetser offer a new descriptive framework for the study of conditionality, broadening the range of richly described conditional constructions. They explore theoretical issues such as the mental-space-building processes underlying conditional thinking and the form-meaning relationship involved in expressing conditionality. Using a broad range of attested English conditional constructions, the book examines inter-constructural relationships. Within the framework of Mental Spaces Theory, shared parameters of meaning are shown to be relevant to conditional constructions generally, as well as related temporal and causal constructions. This significant contribution to the field will be welcomed by a wide range of researchers in theoretical and cognitive linguistics.

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This handbook considers intellectual property products (IPPs) collectively by type and detailed transaction in order that estimates for national accounts valuations be comparable across countries.

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Massachusetts History!
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Massachusetts Government!
Carole Marsh Books
Massachusetts Math!
Carole Marsh Books
Massachusetts Law for Kids
Carole Marsh Books
Children's Books in Print
R. R. Bowker Books in Print
Library Journal
The Constitution of Algorithms
Ground-Truthing, Programming, Formulating
MIT Press

This book provides a comprehensive overview of the different dynamic patterns involved in the redistribution of mercury in the global environment, and its impact on human health and ecosystems. Increasing mercury usage and the lack of emission control policy, especially in fast developing countries, represent a complex environmental and political issue that can only benefit from more accurate measurement.

This book constitutes the refereed proceedings of the 5th IFIP TC 5, TC 12, WG 8.4, WG 8.9, WG 12.9 International Cross-Domain Conference, CD-MAKE 2021, held in virtually in August 2021. The 20 full papers and 2 short papers presented were carefully reviewed and selected from 48 submissions. The

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cross-domain integration and appraisal of different fields provides an atmosphere to foster different perspectives and opinions; it will offer a platform for novel ideas and a fresh look on the methodologies to put these ideas into business for the benefit of humanity.

In recent years, academic advancement and access to funds that stimulate scientific research have been conditioned by the scientific production of individual scientists as well as the production of scientific centers, institutes and universities. This has led to an increase in interest in the accelerated assessment and ranking of scientists and scientific institutions. Scientometry is a sub-discipline of information sciences that measures achievement in science.

This book provides the reader with a detailed insight into relevant scientometric methods and criteria, their individual strengths and weaknesses in the process of ranking scientists, scientific centers and institutions, as well as their application to the process of planning scientific projects and isolated medical specialties.

This handbook offers a thorough treatment of the science of linguistic annotation. Leaders in the field guide the reader through the process of modeling, creating an annotation language, building a corpus and evaluating it for correctness. Essential reading for both computer scientists and linguistic researchers. Linguistic annotation is an increasingly important activity in the field of computational linguistics because of its critical role in the development of language models for natural

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language processing applications. Part one of this book covers all phases of the linguistic annotation process, from annotation scheme design and choice of representation format through both the manual and automatic annotation process, evaluation, and iterative improvement of annotation accuracy. The second part of the book includes case studies of annotation projects across the spectrum of linguistic annotation types, including morpho-syntactic tagging, syntactic analyses, a range of semantic analyses (semantic roles, named entities, sentiment and opinion), time and event and spatial analyses, and discourse level analyses including discourse structure, co-reference, etc. Each case study addresses the various phases and processes discussed in the chapters of part one.

Imagine planning an event like the Olympics. Now imagine planning the same event but not knowing when or where it will take place, or how many will attend. This is what humanitarian logisticians are up against. Oversights result in serious consequences for the victims of disasters. So they have to get it right, fast.

Magdalena doesn't plan to cut her long hair until she meets a strange old lady in the public library.

The Handbook provides internal guidance and establishes national policy for conducting consultation and conferences pursuant to section 7 of the Endangered Species Act of 1973, as amended. The purpose of the Handbook is to promote efficiency and nationwide consistency within and between the Services. The Handbook addresses the major consultation processes, including informal, formal, emergency, and special consultations, and conferences.

Compiled by world- class leaders in the field of collaborative information retrieval and search (CIS), this book centres on the notion that information seeking is not always a solitary activity and working in collaboration to perform information-

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seeking tasks should be studied and supported. Covering aspects of theories, models, and applications the book is divided in three parts: - Best Practices and Studies: providing an overview of current knowledge and state-of-the-art in the field. - New Domains: covers some of the new and exciting opportunities of applying CIS - New Thoughts: focuses on new research directions by scholars from academia and industry from around the world. Collaborative Information Seeking provides a valuable reference for student, teachers, and researchers interested in the area of collaborative work, information seeking/retrieval, and human-computer interaction.

This book is about the patterns of connections between brain structures. It reviews progress on the analysis of neuroanatomical connection data and presents six different approaches to data analysis. The results of their application to data from cat and monkey cortex are explored. This volume sheds light on the organization of the brain that is specified by its wiring.

Novel Plant Bioresources: Applications in Food, Medicine andCosmetics serves as the definitive source of information onunder-utilized plant species, and fills a key niche in ourunderstanding of the relationship of human beings withunder-utilized plants. By covering applications in food, medicineand cosmetics, the book has a broad appeal. In a climate of growing awareness about the perils ofbiodiversity loss, the world is witnessing an unprecedentedinterest in novel plants, which are increasingly prized for theirpotential use in aromas, dyes, foods, medicines and cosmetics. Thisbook highlights these plants and their uses. After an introductorysection which sets the scene with an

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overview of the historical and legislative importance of under-utilized plants, the main four parts of the book are dedicated to the diverse potential application of novel plant bioresources in Food, Medicine, Ethnoveterinary Medicine and Cosmetics. Examples and contributors are drawn from Africa, Europe, the USA and Asia. The economic, social, and cultural aspects of under-utilized plant species are addressed, and the book provides a much needed boost to the on-going effort to focus attention on under-utilized plant species and conservation initiatives. By focusing on novel plants and the agenda for sustainable utilization, *Novel Plant Bioresources* highlights key issues relevant to under-utilized plant genetic resources, and brings together international scholars on this important topic.

The *New Public Health* has established itself as a solid textbook throughout the world. Translated into 7 languages, this work distinguishes itself from other public health textbooks, which are either highly locally oriented or, if international, lack the specificity of local issues relevant to students' understanding of applied public health in their own setting. This 3e provides a unified approach to public health appropriate for all masters' level students and practitioners—specifically for courses in MPH programs, community health and preventive medicine programs, community health education programs, and community health nursing programs, as well as programs for other medical professionals such as pharmacy, physiotherapy, and other public health courses. Changes in infectious and chronic disease epidemiology including vaccines, health promotion,

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human resources for health and health technology
Lessons from H1N1, pandemic threats, disease
eradication, nutritional health Trends of health systems
and reforms and consequences of current economic
crisis for health Public health law, ethics, scientific d
health technology advances and assessment Global
Health environment, Millennium Development Goals and
international NGOs

Didactics of Mathematics as a Scientific Discipline
describes the state of the art in a new branch of science.
Starting from a general perspective on the didactics of
mathematics, the 30 original contributions to the book,
drawn from 10 different countries, go on to identify
certain subdisciplines and suggest an overall structure or
'topology' of the field. The book is divided into eight
sections: (1) Preparing Mathematics for Students; (2)
Teacher Education and Research on Teaching; (3)
Interaction in the Classroom; (4) Technology and
Mathematics Education; (5) Psychology of Mathematical
Thinking; (6) Differential Didactics; (7) History and
Epistemology of Mathematics and Mathematics
Education; (8) Cultural Framing of Teaching and
Learning Mathematics. Didactics of Mathematics as a
Scientific Discipline is required reading for all
researchers into the didactics of mathematics, and
contains surveys and a variety of stimulating reflections
which make it extremely useful for mathematics
educators and teacher trainers interested in the theory of
their practice. Future and practising teachers of
mathematics will find much to interest them in relation to
their daily work, especially as it relates to the teaching of

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different age groups and ability ranges. The book is also recommended to researchers in neighbouring disciplines, such as mathematics itself, general education, educational psychology and cognitive science.

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