

Service Manual Franke Evolution Coffee Machine

The purpose of this Special Issue is to provide a thorough and up-to-date presentation of research investigating the impact of coffee and/or caffeine intake on various health outcomes. We welcome the submission of original research articles and/or systematic Reviews/meta-analyses focusing on several aspects of coffee/caffeine intake in relation to human health. Areas of interest include, but are not limited to, the following topics: - Human clinical trials of coffee or caffeine use in relation to disease or intermediate phenotypes. - Epidemiological studies of habitual coffee or caffeine intake in relation to human health, among the general public, as well as, among special populations (i.e., children, pregnant women, diabetics, cancer patients, hypertensives, etc.) - Mechanisms of action of nutrients and other bioactive components of coffee/caffeine. - Studies integrating genetic or physiological markers of coffee/caffeine intake to investigations of coffee and health.

The Dynamics of Persuasion has been a staple resource for teaching persuasion for nearly two decades. Author Richard M. Perloff speaks to students in a style that is engaging and informational, explaining key theories and research as well as providing timely and relevant examples. The companion website includes materials for both students and instructors and expanding the pedagogical utilities. The sixth edition includes: updated theoretical and applied research in a variety of areas, including framing, inoculation, and self-affirmation; new studies of health campaigns; expanded coverage of social media marketing; enhanced discussion of the Elaboration Likelihood Model in light of continued research and new applications to everyday persuasion. The

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fundamentals of the book – emphasis on theory, clear-cut explanation of findings, in-depth discussion of persuasion processes and effects, and easy-to-follow real-world applications – continue in the sixth edition.

A new edition of a classic title, featuring updated and additional material to reflect today's competitive work environments, contributed by a team of international experts. Essential for anyone involved in the design, management and use of work places, this is a critical multidisciplinary review of the factors affecting productivity, as well a practical solutions manual for common problems and issues.

Graph-structured data is ubiquitous throughout the natural and social sciences, from telecommunication networks to quantum chemistry. Building relational inductive biases into deep learning architectures is crucial for creating systems that can learn, reason, and generalize from this kind of data.

Recent years have seen a surge in research on graph representation learning, including techniques for deep graph embeddings, generalizations of convolutional neural networks to graph-structured data, and neural message-passing approaches inspired by belief propagation. These advances in graph representation learning have led to new state-of-the-art results in numerous domains, including chemical synthesis, 3D vision, recommender systems, question answering, and social network analysis. This book provides a synthesis and overview of graph representation learning. It begins with a discussion of the goals of graph representation learning as well as key methodological foundations in graph theory and network analysis. Following this, the book introduces and reviews methods for learning node embeddings, including random-walk-based methods and applications to knowledge graphs. It then provides a technical synthesis and introduction to the highly successful graph neural network (GNN) formalism, which has become a

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dominant and fast-growing paradigm for deep learning with graph data. The book concludes with a synthesis of recent advancements in deep generative models for graphs—a nascent but quickly growing subset of graph representation learning.

The Startup Owner's Manual
The Step-By-Step Guide for Building a Great Company
John Wiley & Sons
Life Cycle Assessment

How to use design as a tool to create not only things but ideas, to speculate about possible futures. Today designers often focus on making technology easy to use, sexy, and consumable. In *Speculative Everything*, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose “what if” questions that are intended to open debate and discussion about the kind of future people want (and do not want). *Speculative Everything* offers a tour through an emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own design and teaching and from other projects from fine art, design, architecture, cinema, and photography. They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative design increase the odds of achieving desirable futures.

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How to Design and Evaluate Research in Education 10e provides a comprehensive introduction to educational research. The text covers the most widely used research methodologies and discusses each step in the research process in detail. Step-by-step analysis of real research studies provides students with practical examples of how to prepare their work and read that of others. End-of-chapter problem sheets, comprehensive coverage of data analysis, and information on how to prepare research proposals and reports make it appropriate both for courses that focus on doing research and for those that stress how to read and understand research.

Introduction to Sociology 2e adheres to the scope and sequence of a typical, one-semester introductory sociology course. It offers comprehensive coverage of core concepts, foundational scholars, and emerging theories, which are supported by a wealth of engaging learning materials. The textbook presents detailed section reviews with rich questions, discussions that help students apply their knowledge, and features that draw learners into the discipline in meaningful ways. The second edition retains the book's conceptual organization, aligning to most courses, and has been significantly updated to reflect the latest research and provide examples most relevant to today's students. In order to help instructors transition to the revised version, the 2e changes are described within the preface. The images in this textbook are grayscale. Authors include: Heather Griffiths, Nathan Keirns, Eric Strayer, Susan Cody-Rydzewski, Gail Scaramuzzo, Tommy Sadler, Sally Vyain, Jeff Bry, Faye Jones

Magic or spycraft? In 1953, against the backdrop of the Cold War, the CIA initiated a top-secret program, code-named MKULTRA, to counter Soviet mind-control and interrogation techniques. Realizing that clandestine officers might need to

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covertly deploy newly developed pills, potions, and powders against the adversary, the CIA hired America's most famous magician, John Mulholland, to write two manuals on sleight of hand and undercover communication techniques. In 1973, virtually all documents related to MKULTRA were destroyed. Mulholland's manuals were thought to be among them—until a single surviving copy of each, complete with illustrations, was recently discovered in the agency's archives. The manuals reprinted in this work represent the only known complete copy of Mulholland's instructions for CIA officers on the magician's art of deception and secret communications.

Life is often considered to be a journey. The lifecycle of waste can similarly be considered to be a journey from the cradle (when an item becomes valueless and, usually, is placed in the dustbin) to the grave (when value is restored by creating usable material or energy; or the waste is transformed into emissions to water or air, or into inert material placed in a landfill). This preface provides a route map for the journey the reader of this book will undertake. Who? Who are the intended readers of this book? Waste managers (whether in public service or private companies) will find a holistic approach for improving the environmental quality and the economic cost of managing waste. The book contains general principles based on cutting edge experience being developed across Europe. Detailed data and a computer model will enable operations managers to develop data-based improvements to their systems. Producers of waste will be better able to understand how their actions can influence the operation of environmentally improved waste management systems. Designers of products and packages will be better able to understand how their design criteria can improve the compatibility of their product or package with developing, environmentally improved waste management systems. Waste data specialists (whether in laboratories,

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consultancies or environmental managers of waste facilities) will see how the scope, quantity and quality of their data can be improved to help their colleagues design more effective waste management systems.

This book gathers selected papers presented at the International Conference on Advancements in Computing and Management (ICACM 2019). Discussing current research in the field of artificial intelligence and machine learning, cloud computing, recent trends in security, natural language processing and machine translation, parallel and distributed algorithms, as well as pattern recognition and analysis, it is a valuable resource for academics, practitioners in industry and decision-makers.

Social Origins of Dictatorship and Democracy is a comparative survey of some of what Moore considers the major/most indicative world economies as they evolved out of pre-modern political systems into industrialism. As the title suggests, Moore is not ultimately concerned with explaining economic development so much as exploring why modes of development produced different political forms that managed the transition to industrialism and modernization. Why did one society modernize into a "relatively free," democratic society (by which Moore means England) while others metamorphosed into fascist or communist states? His core thesis is that in each country, the relationship between the landlord class and the peasants was a primary influence on the ultimate form of government the society arrived at upon arrival in its modern age.

With over 50,000 distinct species in sub-Saharan Africa alone, the African continent is endowed with an enormous wealth of plant resources. While more than 25 percent of known species have been used for several centuries in traditional African medicine for the prevention and treatment of diseases, Africa remains a minor player in the global

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natural products market largely due to lack of practical information. This updated and expanded second edition of the Handbook of African Medicinal Plants provides a comprehensive review of more than 2,000 species of plants employed in indigenous African medicine, with full-color photographs and references from over 1,100 publications. The first part of the book contains a catalog of the plants used as ingredients for the preparation of traditional remedies, including their medicinal uses and the parts of the plant used. This is followed by a pharmacognostical profile of 170 of the major herbs, with a brief description of the diagnostic features of the leaves, flowers, and fruits and monographs with botanical names, common names, synonyms, African names, habitat and distribution, ethnomedicinal uses, chemical constituents, and reported pharmacological activity. The second part of the book provides an introduction to African traditional medicine, outlining African cosmology and beliefs as they relate to healing and the use of herbs, health foods, and medicinal plants. This book presents scientific documentation of the correlation between the observed folk use and demonstrable biological activity, as well as the characterized constituents of the plants.

Content analysis is one of the most important but complex research methodologies in the social sciences. In this thoroughly updated Second Edition of *The Content Analysis Guidebook*, author Kimberly Neuendorf provides an accessible core text for upper-level undergraduates and graduate students across the social sciences. Comprising step-by-step instructions and practical advice, this text unravels the complicated aspects of content analysis. More than 100,000 entrepreneurs rely on this book

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for detailed, step-by-step instructions on building successful, scalable, profitable startups. The National Science Foundation pays hundreds of startup teams each year to follow the process outlined in the book, and it's taught at Stanford, Berkeley, Columbia and more than 100 other leading universities worldwide. Why? The Startup Owner's Manual guides you, step-by-step, as you put the Customer Development process to work. This method was created by renowned Silicon Valley startup expert Steve Blank, co-creator with Eric Ries of the "Lean Startup" movement and tested and refined by him for more than a decade. This 608-page how-to guide includes over 100 charts, graphs, and diagrams, plus 77 valuable checklists that guide you as you drive your company toward profitability. It will help you:

- Avoid the 9 deadly sins that destroy startups' chances for success
- Use the Customer Development method to bring your business idea to life
- Incorporate the Business Model Canvas as the organizing principle for startup hypotheses
- Identify your customers and determine how to "get, keep and grow" customers profitably
- Compute how you'll drive your startup to repeatable, scalable profits.

The Startup Owner's Manual was originally published by K&S Ranch Publishing Inc. and is now available from Wiley. The cover, design, and content are the same as the prior release and should not be considered a new or updated product.

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"This open access book describes and reviews the development of the quality control mechanisms and methodologies associated with IEA's extensive program of educational research. A group of renowned international researchers, directly involved in the design and execution of IEA's international large-scale assessments (ILSAs), describe the operational and quality control procedures that are employed to address the challenges associated with providing high-quality, comparable data. Throughout the now considerable history of IEA's international large-scale assessments, establishing the quality of the data has been paramount. Research in the complex multinational context in which IEA studies operate imposes significant burdens and challenges in terms of the methodologies and technologies that have been developed to achieve the stated study goals. The demands of the twin imperatives of validity and reliability must be satisfied in the context of multiple and diverse cultures, languages, orthographies, educational structures, educational histories, and traditions. Readers will learn about IEA's approach to such challenges, and the methods used to ensure that the quality of the data provided to policymakers and researchers can be trusted. An often neglected area of investigation, namely the consequential validity of ILSAs, is also explored, examining issues related to reporting, dissemination, and impact, including discussion of the limits of

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interpretation. The final chapters address the question of the influence of ILSAs on policy and reform in education, including a case study from Singapore, a country known for its outstanding levels of achievement, but which nevertheless seeks the means of continual improvement, illustrating best practice use of ILSA data." -- prové de l'editor.

Grounded in linguistic research and argumentation, THE ENGLISH LANGUAGE: FROM SOUND TO SE01 General/tradeE offers readers who have little or no analytic understanding of English a thorough treatment of the various components of the language. Its goal is to help readers become independent language analysts capable of critically evaluating claims about the language and the people who use it.

This book provides a synthesis of research perspectives on customer engagement through a collection of chapters from thought leaders. It identifies cutting-edge metrics for capturing and measuring customer engagement and highlights best practices in implementing customer engagement marketing strategies. Responding to the rapidly changing business landscape where consumers are more connected, accessible, and informed than ever before, many firms are investing in customer engagement marketing. The book will appeal to academics, practitioners, consultants, and managers looking to improve customer engagement.

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NSCA's Guide to Sport and Exercise Nutrition provides valuable information and guidelines that address the nutrition needs for the broad range of clientele serviced by strength and conditioning professionals, personal trainers, and sport dietitians. Whether you work with fitness enthusiasts or competitive athletes, this resource will lead you through the key concepts of sport and exercise nutrition so that you can assess an individual's nutrition status and—if it falls within your scope of practice—develop customized nutrition plans. Developed by the National Strength and Conditioning Association (NSCA) and subjected to an intensive peer-review process, this authoritative resource offers the latest research and literature review from respected scientists and practitioners with expertise in nutrition, exercise, and sport performance. NSCA's Guide to Sport and Exercise Nutrition covers all aspects of food selection, digestion, metabolism, and hydration relevant to sport and exercise performance. This comprehensive resource will help you understand safe and effective ways to improve training and performance through natural nutrition-based ergogenic aids like supplementation and macronutrient intake manipulation. You will also learn guidelines about proper fluid intake to enhance performance and the most important criteria for effectively evaluating the quality of sport drinks and

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replacement beverages. Finally, cutting-edge findings on nutrient timing based on the type, intensity, and duration of activity will help you understand how to recommend the correct nutrients at the ideal time to achieve optimal performance results. In addition to presenting research relating to sport and exercise nutrition, each chapter includes a professional application section that will help you make the connection between the literature and its practical implementation. Sidebars emphasize important topics, and reproducible forms consisting of a food log, brief athlete nutrition assessment, and goal-setting questionnaire can be copied and shared with your clients. A running glossary keeps key terms at your fingertips, and extensive references within the text offer starting points for your continued study and professional enrichment. Each client and athlete requires a customized diet tailored to the frequency, intensity, duration, and specificity of the training and demands of the sport or activity. With NSCA's Guide to Sport and Exercise Nutrition, you will learn how food, sport supplements, and their interactions with a client's biological systems can enhance exercise and sport performance for optimal training, recovery, and competition. NSCA's Guide to Sport and Exercise Nutrition is part of the Science of Strength and Conditioning series. Developed with the expertise of the National Strength and Conditioning Association (NSCA), this series of texts

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provides the guidelines for converting scientific research into practical application. The series covers topics such as tests and assessments, program design, nutrition, and special populations.

From IKEA assembly guides and “hands and pans” cooking videos on social media to Mister Rogers's classic factory tours, representations of the step-by-step fabrication of objects and food are ubiquitous in popular media. In *The Process Genre* Salomé Aguilera Skvirsky introduces and theorizes the process genre—a heretofore unacknowledged and untheorized transmedial genre characterized by its representation of chronologically ordered steps in which some form of labor results in a finished product. Originating in the fifteenth century with machine drawings, and now including everything from cookbooks to instructional videos and art cinema, the process genre achieves its most powerful affective and ideological results in film. By visualizing technique and absorbing viewers into the actions of social actors and machines, industrial, educational, ethnographic, and other process films stake out diverse ideological positions on the meaning of labor and on a society's level of technological development. In systematically theorizing a genre familiar to anyone with access to a screen, Skvirsky opens up new possibilities for film theory.

The UK's bestselling book on logistics and supply

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chain management – over 100,000 copies sold. Effective development and management of supply chain networks helps businesses cut costs and enhance customer value. This updated 5th edition is a clear guide to all the key topics in an integrated approach to supply chains. As well as new and updated examples and case studies, there are two new chapters: Routes to Market: Many companies now have to manage multiple distribution channels - this chapter covers strategic issues on how companies “go to market” along with the cost implications of using alternative channels. Service Logistics: As companies begin to sell performance rather than physical product, this chapter explores the implications for logistics management as the need to provide higher levels of service and customer support becomes ever more critical. This edited volume brings together research on symbiotic themes of entrepreneurship, resource planning, and regional development and their impact on global-local business imperatives. Discussions in this volume critically analyze the convergence of entrepreneurship, innovation, technology, business practices, public policies, political ideologies, and consumer values for improving the global-local business paradigm to support regional development. This book also enriches knowledge on contemporary entrepreneurship models, converging business strategies towards entrepreneurial and industrial

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alliance in manufacturing, services, and marketing organizations. It contemplates the development of new business models and hybrid entrepreneurial perspectives to match the changing priorities of regional economic development in developing countries. This volume offers scholars new entrepreneurial visions and business perspectives of industries in emerging markets, while presenting a more integrated view to enable companies to innovate for long-term profitability and sustainability. Provides an authoritative summary of current knowledge of the biological basis of substance use behaviours, including their relationship with environmental factors.

This book constitutes the proceedings of the 10th International Conference on Exploring Service Science, IESS 2020, held in Porto, Portugal, in February 2020. The 28 papers presented in this volume were carefully reviewed and selected from 42 submissions. The book includes papers that extend the view on different concepts related to the development of the Service Science domain of study, applying them to frameworks, advanced technologies, and tools for the design of new, digitally-enabled service systems. This book is structured in six parts, based on the six main conference themes, as follows: Customer Experience, Data Analytics in Service, Emerging Service Technologies, Service Design and

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Innovation, Service Ecosystems, and Service Management.

CAPTURING THE POETRY OF TODAY - This is the seventh, annual, international poetry anthology in The Poetic Bond Series - 112 poems by 50 poets from 11 countries, drawn from new media, professional and social networking, giving a snapshot of 2017 which could be said to capture the zeitgeist of contemporary poetry. The Poets of 2017 are : Amber Jimenez-Flores (US), Annel Bell Martin (US), April Fallon (US), Belinda DuPret (UK) Betty Bleen (US), Melissa Bird (UK), Diane Burrow (UK), Christine Anderes (US), Cigeng Zhang (China), Chris Maynard (UK), Darrell Wright (US), Deborah Nyamekye (Ghana), Denisa Parsons (US), Elaine Battersby (UK), Fiona Sullivan (UK), Bonnie J. Flach (US), Flavia Cosma (Canada), Gil Franke (US), Kelli Gunn (Canada), Pamela Hope (US), Jane Johann (US), Joseph Simmons (US), Joseph Sinclair (UK), Karen Henneberry (Canada), Karen Nurenberg-Rothstein (US), Kayla Matheson (US), Sajida Khan (UK), Lee Landau (US), Lexene Burns (Australia), Madeline Lipton (US), Lizzie La Pool (UK), Tatjana Loncarec (Croatia), Low Kwai Chee (Malaysia), Marcia Weber (UK), Mariangela Canzi (Italy), Marie Youssefirad (US), Mustofa Munir (US), Nancy Scott (US), Pedro Cunha (Portugal), Richard Glen Smith (US), Robin Ouzman Hislop (Spain), Suzanne Askham (UK), Nana Tokatli (Greece), Tom Sterner

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(US), Trevor Maynard (UK), Vensa Adriana Arsenic (US), Brian Walker (UK), William DiBenedetto (US), Wybrig J. De Vries (Friesian and Canada), Lynne Zotalis (US). New for 2017 THE POETIC BOND CHOICE POETS' CHOICE AWARDS 2017. Poets selected for the anthology, this year, got to vote for the three poems in the anthology which they find most engage and inspire them. The poems that win the most votes, in a 1-2-3 preferential voting system, will receive an cash award. This year The Poetic Bond Poets' Choice Award Winners for 2017 are Betty Bleen for "Dancing in the Moonlight" Flavia Cosma for "I Gathered It All..." and Fiona Sullivan for "Coming Home" . THE POETIC BOND is an annual anthology, accepting submission every year from 31st March to 30th June.

This book presents the current coil winding methods, their associated technologies and the associated automation techniques. From the introduction as a forming joining process, over the physical properties of coils, the semifinished products (wire, coil body, insulation) are introduced. In the process chain, different winding methods are used for magnet wire winding. Finally, the automation of these processes is described.

16 MILLION COPIES SOLD 'A book to read, to cherish, to debate, and one that will ultimately keep the memories of the victims alive' John Boyne, author of The Boy in the Striped Pyjamas A

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prominent Viennese psychiatrist before the war, Viktor Frankl was uniquely able to observe the way that both he and others in Auschwitz coped (or didn't) with the experience. He noticed that it was the men who comforted others and who gave away their last piece of bread who survived the longest - and who offered proof that everything can be taken away from us except the ability to choose our attitude in any given set of circumstances. The sort of person the concentration camp prisoner became was the result of an inner decision and not of camp influences alone. Frankl came to believe man's deepest desire is to search for meaning and purpose. This outstanding work offers us all a way to transcend suffering and find significance in the art of living.

The best-selling introduction to evidence-based medicine In a clear and engaging style, *How to Read a Paper* demystifies evidence-based medicine and explains how to critically appraise published research and also put the findings into practice. An ideal introduction to evidence-based medicine, *How to Read a Paper* explains what to look for in different types of papers and how best to evaluate the literature and then implement the findings in an evidence-based, patient-centred way. Helpful checklist summaries of the key points in each chapter provide a useful framework for applying the principles of evidence-based medicine in everyday practice. This fifth edition has been fully updated with new examples and references to reflect recent developments and current practice. It also includes two new chapters on applying evidence-based medicine with patients and on the common

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criticisms of evidence-based medicine and responses. How to Read a Paper is a standard text for medical and nursing schools as well as a friendly guide for everyone wanting to teach or learn the basics of evidence-based medicine. Leading international artists and art educators consider the challenges of art education in today's dramatically changed art world. The last explosive change in art education came nearly a century ago, when the German Bauhaus was formed. Today, dramatic changes in the art world—its increasing professionalization, the pervasive power of the art market, and fundamental shifts in art-making itself in our post-Duchampian era—combined with a revolution in information technology, raise fundamental questions about the education of today's artists. Art School (Propositions for the 21st Century) brings together more than thirty leading international artists and art educators to reconsider the practices of art education in academic, practical, ethical, and philosophical terms. The essays in the book range over continents, histories, traditions, experiments, and fantasies of education. Accompanying the essays are conversations with such prominent artist/educators as John Baldessari, Michael Craig-Martin, Hans Haacke, and Marina Abramovic, as well as questionnaire responses from a dozen important artists—among them Mike Kelley, Ann Hamilton, Guillermo Kuitca, and Shirin Neshat—about their own experiences as students. A fascinating analysis of the architecture of major historical art schools throughout the world looks at the relationship of the principles of their designs to the principles of the pedagogy practiced within their halls. And throughout the volume, attention is paid to new initiatives and proposals about what an art school can and should be in the twenty-first century—and what it shouldn't be. No other book on the subject covers more of the questions concerning art education today or offers more insight into the pressures,

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challenges, risks, and opportunities for artists and art educators in the years ahead. Contributors Marina Abramovic, Dennis Adams, John Baldessari, Ute Meta Bauer, Daniel Birnbaum, Saskia Bos, Tania Bruguera, Luis Camnitzer, Michael Craig-Martin, Thierry de Duve, Clémentine Deliss, Charles Esche, Liam Gillick, Boris Groys, Hans Haacke, Ann Lauterbach, Ken Lum, Steven Henry Madoff, Brendan D. Moran, Ernesto Pujol, Raqs Media Collective, Charles Renfro, Jeffrey T. Schnapp, Michael Shanks, Robert Storr, Anton Vidokle

This book constitutes the refereed post-conference proceedings of the 5th International Conference on Future Access Enablers for Ubiquitous and Intelligent Infrastructures, FABULOUS 2021, held in May 2021. Due to COVID-19 pandemic the conference was held virtually. This year's conference topic covers security of innovative services and infrastructure in traffic, transport and logistic ecosystems. The 30 revised full papers were carefully reviewed and selected from 60 submissions. The papers are organized in thematic sessions on: Internet of things and smart city; smart environment applications; information and communications technology; smart health applications; sustainable communications and computing infrastructures.

Cognitive enhancement is the use of drugs, biotechnological strategies or other means by healthy individuals aiming at the improvement of cognitive functions such as vigilance, concentration or memory without any medical need. In particular, the use of pharmacological substances (caffeine, prescription drugs or illicit drugs) has received considerable attention during the last few years. Currently, however, little is known concerning the use of cognitive enhancers, their effects in healthy individuals and the place and function of cognitive enhancement in everyday life. The purpose of the book is to give an overview of the current research on

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cognitive enhancement and to provide in-depth insights into the interdisciplinary debate on cognitive enhancement. *Uncommon Grounds* tells the story of coffee from its discovery on a hill in ancient Abyssinia to the advent of Starbucks. In this updated edition of the classic work, Mark Pendergrast reviews the dramatic changes in coffee culture over the past decade, from the disastrous “Coffee Crisis” that caused global prices to plummet to the rise of the Fair Trade movement and the “third-wave” of quality-obsessed coffee connoisseurs. As the scope of coffee culture continues to expand, *Uncommon Grounds* remains more than ever a brilliantly entertaining guide to the currents of one of the world's favorite beverages.

This Reference Work is devoted to plant secondary metabolites and their evolutionary adaptation to different hosts and pests. Secondary metabolites play an important biological role in plants' defence against herbivores, abiotic stresses and pathogens, and they also attract beneficial organisms such as pollinators. In this work, readers will find a comprehensive review of the phytochemical diversity, modification and adaptation of secondary metabolites, and the consequences of their co-evolution with plant parasites, pollinators, and herbivores. Chapters from expert contributors are organised into twelve sections that collate the current knowledge in intra-/inter-specific diversity in plant secondary metabolites, changes in secondary metabolites during plants' adaptation to different environmental conditions, and co-evolution of host-parasite metabolites. Among the twelve themed parts, readers will also discover expert analysis on the genetics and chemical ecology evolution of secondary metabolites, and particular attention is also given to allelochemicals, bioactive molecules in plant defence and the evolution of sensory perception in vertebrates. This reference work will appeal to students, researchers and professionals

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interested in the field of plant pathology, plant breeding, biotechnology, agriculture and phytochemistry.

In this volume cultural, social and cognitive influences on the research and teaching of mathematical modelling are explored from a variety of theoretical and practical perspectives. The authors of the current volume are all members of the International Community of Teachers of Mathematical Modelling and Applications, the peak research body in this field. A distinctive feature of this volume is the high number of authors from South American countries. These authors bring quite a different perspective to modelling than has been showcased in previous books in this series, in particular from a cultural point of view. As well as recent international research, there is a strong emphasis on pedagogical issues including those associated with technology and assessment, in the teaching and learning of modelling. Applications at various levels of education are exemplified. The contributions reflect common issues shared globally and represent emergent or on-going challenges.

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