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## **K9E80I - OCONNELL RHYS**

Presents a multi-disciplinary perspective on the physics of life and the particular role played by lipids and the lipid-bilayer component of cell membranes. Emphasizes the physical properties of lipid membranes seen as soft and molecularly structured interfaces. By combining and synthesizing insights obtained from a variety of recent studies, an attempt is made to clarify what membrane structure is and how it can be quantitatively described. Shows how biological function mediated by membranes is controlled by lipid membrane structure and organization on length scales ranging from the size of the individual molecule, across molecular assemblies of proteins and lipid domains in the range of nanometers, to the size of whole cells. Applications of lipids in nano-technology and biomedicine are also described.

The purpose of this proceedings is to stimulate exchange and discussion of research in the field of multi-agent systems. A multi-agent system consists of at least two agents that are engaged in some task that may require coordination, cooperation and/or competition. An autonomous agent has its own goals, capabilities and knowledge. The actions of an agent occur in the context of other agents that may have structures and strategies different from the agent's own. Multi-agent problems arise when several autonomous agents share a common environment. These problems may result from limited resources, shared or competing goals, etc. This MAAMAW workshop proceedings emphasizes multi-agent systems of all sorts from very simple to very complex agents and agent organizations.

This book constitutes the refereed proceedings of the 14th International Conference on Inductive Logic Programming, ILP 2004, held in Porto, Portugal, in September 2004. The 20 revised full papers presented were carefully reviewed and selected for inclusion in the book. The papers address all current topics in inductive logic programming, ranging from theoretical and methodological issues to advanced applications in various areas.

This book presents models and algorithms for complex scheduling problems. Besides resource-constrained project scheduling problems with applications also job-shop problems with flexible machines, transportation or limited buffers are discussed. Discrete optimization methods like linear and integer programming, constraint propagation techniques, shortest path and network flow algorithms, branch-and-bound methods, local search and genetic algorithms, and dynamic programming are presented. They are used in exact or heuristic procedures to solve the introduced complex scheduling problems. Furthermore, methods for calculating lower bounds are described. Most algorithms are formulated in detail and illustrated with examples. In this second edition some errors were corrected, some parts were explained in more detail, and new material has been added. In particular, further generalizations of the RCPSP, additional practical applications

and some more algorithms were integrated.

The highly anticipated seventh novel in the bestselling DI Nick Dixon Crime Series. A man has been mutilated and left to drown on the incoming tide, handcuffed in his van. With the murder bearing a striking resemblance to a string of sadistic killings carried out with surgical precision in 1990s gangland Manchester, it can mean only one thing: the killer is back. Transferred to the Major Investigation Team, DI Nick Dixon is assigned a new partner and sent to Manchester. Meanwhile, the gruesome murders in Somerset continue. Convinced of a connection with the unsolved gangland killings, and with the odds stacked against him, Dixon takes the ultimate gamble, determined to bring the killer to justice before it's too late. But is it the same killer? If so, why has he resurfaced now? And how many more must die?

This handbook is the first book ever covering the area of Multimodal Learning Analytics (MMLA). The field of MMLA is an emerging domain of Learning Analytics and plays an important role in expanding the Learning Analytics goal of understanding and improving learning in all the different environments where it occurs. The challenge for research and practice in this field is how to develop theories about the analysis of human behaviors during diverse learning processes and to create useful tools that could augment the capabilities of learners and instructors in a way that is ethical and sustainable. Behind this area, the CrossMMLA research community exchanges ideas on how we can analyze evidence from multimodal and multisystem data and how we can extract meaning from this increasingly fluid and complex data coming from different kinds of transformative learning situations and how to best feed back the results of these analyses to achieve positive transformative actions on those learning processes. This handbook also describes how MMLA uses the advances in machine learning and affordable sensor technologies to act as a virtual observer/analyst of learning activities. The book describes how this "virtual nature" allows MMLA to provide new insights into learning processes that happen across multiple contexts between stakeholders, devices and resources. Using such technologies in combination with machine learning, Learning Analytics researchers can now perform text, speech, handwriting, sketches, gesture, affective, or eye-gaze analysis, improve the accuracy of their predictions and learned models and provide automated feedback to enable learner self-reflection. However, with this increased complexity in data, new challenges also arise. Conducting the data gathering, pre-processing, analysis, annotation and sense-making, in a way that is meaningful for learning scientists and other stakeholders (e.g., students or teachers), still pose challenges in this emergent field. This handbook aims to serve as a unique resource for state of the art methods and processes. Chapter 11 of this book is available open access under a CC BY 4.0 license at [link.springer.com](http://link.springer.com).

This book constitutes the refereed proceedings of the 6th Interna-

tional Workshop on Advanced Parallel Processing Technologies, APPT 2005, held in Hong Kong, China in September 2005. The 55 revised full papers presented were carefully reviewed and selected from over 220 submissions. All current aspects in parallel and distributed computing are addressed ranging from hardware and software issues to algorithmic aspects and advanced applications. The papers are organized in topical sections on architecture, algorithm and theory, system and software, grid computing, networking, and applied technologies.

Containing around 17,000 headwords and detailed phonetic descriptions, this book makes available for the first time the material gathered by the historic Survey of English Dialects, fully alphabetized. A separate section provides a systematic analysis of the syntactic patterns of various dialects. The book is an indispensable tool for dialectologists worldwide.

The natural mission of Computational Science is to tackle all sorts of human problems and to work out intelligent automata aimed at alleviating the burden of working out suitable tools for solving complex problems. For this reason Computational Science, though originating from the need to solve the most challenging problems in science and engineering (computational science is the key player in the fight to gain fundamental advances in astronomy, biology, chemistry, environmental science, physics and several other scientific and engineering disciplines) is increasingly turning its attention to all fields of human activity. In all activities, in fact, intensive computation, information handling, knowledge synthesis, the use of ad-hoc devices, etc. increasingly need to be exploited and coordinated regardless of the location of both the users and the (various and heterogeneous) computing platforms. As a result the key to understanding the explosive growth of this discipline lies in two adjectives that more and more appropriately refer to Computational Science and its applications: interoperable and ubiquitous. Numerous examples of ubiquitous and interoperable tools and applications are given in the present four LNCS volumes containing the contributions delivered at the 2004 International Conference on Computational Science and its Applications (ICCSA 2004) held in Assisi, Italy, May 14-17, 2004.

Bayesian networks have grown to become a dominant type of model within the domain of probabilistic graphical models. Not only do they empower users with a graphical means for describing the relationships among random variables, but they also allow for (potentially) fewer parameters to estimate, and enable more efficient inference. The random variables and the relationships among them decide the structure of the directed acyclic graph that represents the Bayesian network. It is the stasis over time of these two components that we question in this thesis. By introducing a new type of probabilistic graphical model, which we call gated Bayesian networks, we allow for the variables that we include in our model, and the relationships among them, to change over time. We introduce algorithms that can learn gated Bayesian networks that use different variables at different times, required due to the process which we are modelling going through distinct phases. We evaluate the efficacy of these algorithms within the domain of algorithmic trading, showing how the learnt gated Bayesian networks can improve upon a passive approach to trading. We also introduce algorithms that detect changes in the relationships among the random variables, allowing us to create a model that consists of several Bayesian networks, thereby revealing changes and the structure by which these changes occur. The resulting models can be used to detect the currently most appropriate Bayesian network, and we show their use in real-world examples from both the domain of sports analytics and finance.

The method and plan of this dictionary of Jamaican English are basically the same as those of the Oxford English Dictionary, but

oral sources have been extensively tapped in addition to detailed coverage of literature published in or about Jamaica since 1655. It contains information about the Caribbean and its dialects, and about Creole languages and general linguistic processes. Entries give the pronunciation, part-of-speech and usage of labels, spelling variants, etymologies and dated citations, as well as definitions. Systematic indexing indicates the extent to which the lexis is shared with other Caribbean countries.

Thumb-indexed edition It takes its dignified place in the Cassell series, that fountainhead and model of "modern lexicography," said "Le Lingue del Mondo," "The compilers have given an excellent working tool to the English and ourselves." This entirely new dictionary is designed as a mirror of contemporary Italian life but it includes obsolete words and phrases which are recurrent in the works of classic Italian writers for the benefit of readers and students of Italian literature.

Pharmacology meets the rapidly emerging needs of programs training pharmacologic scientists seeking careers in basic research and drug discovery rather than such applied fields as pharmacy and medicine. While the market is crowded with many clinical and therapeutic pharmacology textbooks, the field of pharmacology is booming with the prospects of discovering new drugs, and virtually no extant textbook meets this need at the student level. The market is so bereft of such approaches that many pharmaceutical companies will adopt Hacker et al. to help train new drug researchers. The boom in pharmacology is driven by the recent decryption of the human genome and enormous progress in controlling genes and synthesizing proteins, making new and even custom drug design possible. This book makes use of these discoveries in presenting its topics, moving logically from drug receptors to the target molecules drug researchers seek, covering such modern topics along the way as side effects, drug resistance, pharmacogenomics, and even nutraceuticals, one in a string of culminating chapters on the drug discovery process. The book is aimed at advanced undergraduates and beginning graduate students in medical, pharmacy, and graduate schools looking for a solid introduction to the basic science of pharmacology and envisioning careers in drug research. Uses individual drugs to explain molecular actions Full color art program explains molecular and chemical concepts graphically Logical structure reflecting the current state of pharmacology and translational research Covers such intricacies as drug resistance and cell death Consistent format across chapters and pedagogical strategies make this textbook a superior learning tool

Sayings which range from the Greeks and Hebrews of 800 and 700 B.C. down to the present.

The logic of Manufacturing Resource Planning (MRP II) is implemented in most commercial production planning software tools and is commonly accepted by practitioners. However, these people are not satisfied with production planning and complain about long lead times, high work-in-process, and backlogging. As many researchers have pointed out, the reason for these shortcomings is inherent to the methods that are used. The research community is thus eager to find more sophisticated approaches. This book is an attempt to compile some state-of-the-art work in the field of production planning research. It includes material that somehow dominates the existing MRP II concept. 15 articles written by 36 authors from 10 countries cover many aspects related to MRP II. All papers went through a single-blind refereeing process before they were selected for being published in this book. When we received papers for this issue, we discovered that MRP II is a topic about which not only management scientists show interest. As the list of authors proves, industrial engineers, computer scientists, and operations researchers from academia as well as practi-

tioners have contributed to this book. This, we hope, makes the book of value for a broad audience. We thank all authors who submitted papers. And, we are indebted to Dr. Werner Muller from Springer for his support in this book project.

A cutting-edge reference source for the interdisciplinary field of computational cognitive modeling.

Aimed at researchers, professors, practitioners, students and other computing professionals, this work looks at: architectures; parallel and distributed computation; networks; mobile computing and communication; parallel language and compiler; and cache/memory.

A 'museum of literary odds and ends', this classic work of 1870 elucidates the etymology of 20,000 words and phrases.

Everyone knows some of the basics of probability, perhaps enough to play cards. Beyond the introductory ideas, there are many wonderful results that are unfamiliar to the layman, but which are well within our grasp to understand and appreciate. Some of the most remarkable results in probability are those that are related to limit theorems--statements about what happens when the trial is repeated many times. The most famous of these is the Law of Large Numbers, which mathematicians, engineers, economists, and many others use every day. In this book, Lesigne has made these limit theorems accessible by stating everything in terms of a game of tossing of a coin: heads or tails. In this way, the analysis becomes much clearer, helping establish the reader's intuition about probability. Moreover, very little generality is lost, as many situations can be modelled from combinations of coin tosses. This book is suitable for anyone who would like to learn more about mathematical probability and has had a one-year undergraduate course in analysis.

This volume contains the 137 papers accepted for presentation at the 15th European Conference on Artificial Intelligence (ECAI '02), which is organized by the European Co-ordination Committee on Artificial Intelligence.

Originally published in Italian in 1976, this book describes the methods scientists use to investigate the physical world. It is ideal for students and teachers of science and the philosophy of science. It is both a high-level popularization and a critical appraisal of these methods, describing important advances in physics and analyzing the historical development, value, reliability and philosophical implications of the way physicists approach the problems confronting them. The introductory chapter on the meaning of physical theories and the mathematical tools used to develop them is followed by a general discussion on the foundations of physics under four major headings: the physics of the rev-

ersible, the physics of the irreversible, microphysics, and cosmology. Throughout, the subject matter of physical theories is linked to discussion of the attendant philosophical and epistemological implications, such as the validity of the theories, inductive inference, causal explanation, probability, the role of observation and the reality of physical objects.

Italian cinema has been an influential, sometimes dominant, force in the world of filmmaking for over 100 years. Many world famous actors and production personnel have made their mark on the Italian screen. This is an encyclopedic reference and filmography to the nearly 5,000 people, Italians and foreigners, who have been involved in Italian filmmaking since 1896. Each entry provides brief biographical information on the person, along with full filmographic data on his or her films in Italy or for Italian filmmakers. The annotated title index includes Italian titles (and year) and English-language titles and alternate titles where appropriate. Conjoined to all of the title index references (to serially numbered personal entries), with the exception of acting credits, are mnemonic codes indicating specific areas of production (e.g., director, producer, camera, music, etc.).

How many ways do exist to mix different ingredients, how many chances to win a gambling game, how many possible paths going from one place to another in a network? To this kind of questions Mathematics applied to computer gives a stimulating and exhaustive answer. This text, presented in three parts (Combinatorics, Probability, Graphs) addresses all those who wish to acquire basic or advanced knowledge in combinatorial theories. It is actually also used as a textbook. Basic and advanced theoretical elements are presented through simple applications like the Sudoku game, search engine algorithm and other easy to grasp applications. Through the progression from simple to complex, the teacher acquires knowledge of the state of the art of combinatorial theory. The non conventional simultaneous presentation of algorithms, programs and theory permits a powerful mixture of theory and practice. All in all, the originality of this approach gives a refreshing view on combinatorial theory.

Every city has its fair share of corrupt coppers, it did in the sixties, and it does today. God help us all. Detective Inspector Helen Young is a tough lady in a male dominated environment based in the City of Manchester. Her ambition to be top dog becomes a dangerous obsession. Vincent Jay-small time thief-has ambitions of grandeur within the criminal fraternity; with the aid of corrupt coppers he is fast becoming a serious contender, and DI Young's worst nightmare. Passions spiral out of control in a world rife with duplicity and betrayal. Shielded by corruption, Vincent Jay brings DI Young to the brink of destruction.