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## Data Structures Revathi Poonguzhali

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Machine Learning and Deep Learning in Real-Time Applications  
Cambridge University Press  
This book focuses on the importance and roles of seed microbiomes in sustainable agriculture by exploring the diversity of microbes vectored on and within seeds of both cultivated and non-cultivated plants. It provides essential insights into how

seeds can be adapted to enhance microbiome vectoring, how damaged seed microbiomes can be assembled again and how seed microbiomes can be conserved. Plant seeds carry not only embryos and nutrients to fuel early seedling growth, but also microbes that modulate development, soil nutrient acquisition, and defense against pathogens and other stressors. Many of these microbes (bacteria and fungi) become endophytic, entering into the tissues of plants, and typically exist within plants without inducing negative effects. Although they have been reported in all plants examined to date, the extent to which plants rely on seed

vectored microbiomes to enhance seedling competitiveness and survival is largely unappreciated. How microbes function to increase the fitness of seedlings is also little understood. The book is a unique and important resource for researchers and students in microbial ecology and biotechnology. Further, it appeals to applied academic and industrial agriculturists interested in increasing crop health and yield. [Bacteria in Agrobiolgy: Plant Nutrient Management](#) Springer  
The future of agriculture strongly depends on our ability to enhance productivity without sacrificing long-term production potential. An ecologically and economically sustainable

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strategy is the application of microorganisms, such as the diverse bacterial species of plant growth promoting bacteria (PGPB). The use of these bio-resources for the enhancement of crop productivity is gaining worldwide importance.

“ Bacteria in Agrobiolgy: Plant Nutrient Management ” focus on the management of plant nutrient to support plant growth and development. The topics treated in this book include mechanisms of plant growth promoting rhizobacteria, zinc and phosphate solubilizing microorganisms, sulfur oxidizing bacteria, ACC deaminase, siderophores, phytohormones, quorum-sensing, biofilms, antibiotics, volatiles, denitrification and integrated nutrient management.

### **Power Electronics with MATLAB C A B International**

Comprehensive in scope and contemporary in coverage, this text explores modern digital and data communications systems, microwave radio communications systems, satellite communications systems, and optical fiber communications systems.

### Safety Assessment of Transgenic Organisms Springer

The quadratic assignment problem (QAP) was introduced in 1957 by Koopmans and Beckmann to model a plant location problem. Since then the QAP has been object of numerous investigations by mathematicians, computers scientists, ope-

tions researchers and practitioners. Nowadays the QAP is widely considered as a classical combinatorial optimization problem which is (still) attractive from many points of view. In our opinion there are at least three main reasons which make the QAP a popular problem in combinatorial optimization. First, the number of re- life problems which are mathematically modeled by QAPs has been continuously increasing and the variety of the fields they belong to is astonishing. To recall just a restricted number among the applications of the QAP let us mention placement problems, scheduling, manufacturing, VLSI design, statistical data analysis, and parallel and distributed computing. Secondly, a number of other well known c- binatorial optimization problems can be formulated as QAPs. Typical examples are the traveling salesman problem and a large number of optimization problems in graphs such as the maximum clique problem, the graph partitioning problem and the minimum feedback arc set problem. Finally, from a computational point of view the QAP is a very difficult problem. The QAP is not only NP-hard and - hard to approximate, but it is also practically intractable: it is generally considered as impossible to solve (to optimality) QAP instances of size larger than 20 within reasonable time limits.

### Emerging Technologies in Data Mining and Information Security Springer Nature

This book reviews the

application of nanosensors in food and agriculture. Nanotechnology has the potential to become transformative technology that will impact almost all sectors. Tools like nanosensors, which detect specific molecular interactions, can be used for on-site, in-situ and online measurements of various parameters in clinical diagnostics, environmental and food monitoring, and quality control. Due to their unprecedented performance and sensitivity, nanobiosensors are gaining importance in precision farming. The book examines the use of nanobiosensors in the monitoring of food additives, toxins and mycotoxins, microbial contamination, food allergens, nutritional constituents, pesticides, environmental parameters, plant diseases and genetically modified organisms. It also discusses the role of biosensors in increasing crop

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productivity in sustainable agriculture, and nanosensor-based smart delivery systems to optimize the use of natural resources such as water, nutrients and agrochemicals in precision farming.

Electronic Communication Jaypee Brothers Medical Publishers Pte Limited

This book provides all facets of acetic acid bacteria (AAB) and offers the future targets and directions of AAB research. It summarizes the distinctive physiological properties of AAB and the recent progress on AAB study, especially in the following five areas: 1) Molecular phylogeny and genome study of AAB; 2) Ecological features of AAB: interaction with plants, natural fermentation systems, and insects; 3) Physiological features and living strategies of AAB, including rapid oxidation ability, acid resistance, biofilm formation, and genetic instability; 4) Molecular mechanisms of several oxidative fermentations such as acetate fermentation, sorbose

fermentation, and ketogluconate fermentation; 5) Recent biotechnological aspects of AAB: biocatalysts, biosensors, biocellulose, and other useful polysaccharides. AAB research has a long history since the discovery of AAB by Louis Pasteur and the identification of AAB by Martinus Beijerinck in the nineteenth century. In the twentieth century, basic research on the taxonomic study of AAB and on biochemical study for the unique oxidative reactions of AAB had progressed as well as the industrial application of AAB not only in vinegar fermentation but also in the bioconversion process for useful chemical or pharmaceutical products. Entering the twenty-first century, AAB research has expanded more, and further progress is expected to be seen in all fields of AAB: classification and ecology, physiology and biochemistry, genetics, and biotechnology of vinegar fermentation and other oxidative fermentations. Far-reaching development in the last decade makes these bacteria more valuable for various industrial uses.

Readers can obtain useful and comprehensive information which is exciting in aspects of basic science and provides hints for the better application of these bacteria to various kinds of practical production scenarios as well.

**Witness the Night** IGI Global  
This book on EngineeringChemistry has been entirely rewritten in order to make it up-to-date and modern, both in approach and content. All diagrams have been redrawn or replaced by new ones. To meet the requirements of the latest syllabi of the various universities of India, topics like transition metals, coordination compounds, crystal field theory, gaseous and liquid states, adsorption, flame photometry, fullerenes, composites, mechanism of some typical reactions, oils and fats, soaps and detergents, have been included or expanded upon. A large number of solved numerical examples drawn from various university

examinations have been given at the end of theoretical part of each chapter. Questions have been drawn from latest examinations of various universities.

*Seed Endophytes* Springer Science & Business Media  
From a symposium at the April 1992 meeting of the American Chemical Society in San Francisco, 22 papers explore the current role and importance of plant-derived natural products in the discovery and development of drugs, in anticancer and cancer chemopreventive agents, in anti-infective and antimicrobial chemotherapeutic agents, and in the potential for products with multiple biological activities. Annotation copyright by Book News, Inc., Portland, OR

### **Probiotics and Plant Health**

Pearson Education India  
Global yields of legumes have been

relatively stagnant for the last five decades, despite the adoption of conventional and molecular breeding approaches. The use of plant growth-promoting (PGP) bacteria for improving agricultural production, soil and plant health has become one of the most attractive strategies for developing sustainable agriculture. Actinomycetes are bacteria that play an important role in PGP and plant protection, produce secondary metabolites of commercial interest, and their use is well documented in wheat, rice, beans, chickpeas and peas. In order to promote legumes, the general assembly of the UN recently declared 2016 the "International Year of Pulses." In view of this development, this book illustrates how PGP actinomycetes can improve grain yield and soil fertility, improve control of insect pests and phytopathogens, and enhance host-plant resistance. It also addresses special topics of current interest, e.g. the role of PGP actinomycetes in the biofortification of legume seeds and bioremediation of heavy

metals.

Data Structures Using C Amer Chemical Society  
The book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering & Management, Kolkata, India, on February 23-25, 2018. It comprises high-quality research by academics and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, case studies related to all the areas of data mining, machine learning, IoT and information security.

### **Exploring C** Springer

The first text to bridge the gap between best surgical practices and modern technology in an evidence based manner Surgical Oncology is a full-color text that incorporates the basic tenets of surgical

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practice with the innovations of modern technology in an evidence-based fashion. The goal of the book is present the opinions of experts in the field alongside an analytical and unbiased review of the evidence. Each chapter contains not only a summary of the relevant data, but also presents succinctly a list of landmark studies and a Level of Evidence Table citing the most important recommendations for each disease or organ system. Features Numerous full-color and black-and-white photographs An excellent guide for surgeons-in-training as well as practicing physicians who need a summary of the latest research in cancer therapy Each chapter emphasizes the surgical management of disease An entire section of the book is dedicated to the principles of adjunct therapies emphasizing the need for a multidisciplinary approach

### **Data Structures and Program Design**

**in C** Springer  
"Discusses the essential concepts of power electronics through MATLAB examples and simulations"--  
**Turfgrass** Prentice Hall  
The Image Trap analyses the phenomenon of M.G. Ramachandran (MGR), the legendary film star-cum-politician of Tamil Nadu, as a modern-day political myth. This book offers fascinating details about the extent to which MGR was successful in creating a stereotypical cinematic persona, and what repercussions it had on Tamil Nadu. Delineating the cultural elements that were meticulously mobilised to constitute MGR's on-screen image, it analyses the popularity he enjoyed among the poor whose interests he constantly violated. This is done by means of what Pandian termed as constructed biographies which are popular narratives that ingeniously present the cinematic as real. It brings out the interface and interplay between the media and

political processes. A blend of essay writing, political rhetoric and scholarship, the book features the complete filmography of MGR and is a must for understanding the contemporary politics of the state.

**Emerging Trends in Science, Engineering and Technology** PHI Learning Pvt. Ltd.

Scientific and common names (in 14 languages) are provided for each species, and they are superbly illustrated by high quality colour photographs. The book represents a landmark in the literature and will appeal to a range of readers interested in botany, horticulture, forestry and traditional medicine."--BOOK JACKET.

**Plant Growth Promoting Actinobacteria** Nova Science Pub Incorporated

Microbial biotechnology is an important area that promotes advanced research into using microbes for value-added

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products, human nutrition, and the overall wellbeing of society. This book presents the latest information on the use of microbes for sustainable development, and highlights state-of-the-art biotechnological techniques used to harness microbial biotechnological traits on a commercial scale. Gathering contributions from authoritative researchers in the field, it addresses recent advances in microbial biotechnological approaches that offer sustainable options for future generations. Exploring a broad range of microbial products and their uses, the book specifically places emphasis on the application of microorganisms in healthcare, the environment and industry. It also discusses various compound classes derived from microbial metabolites. Pursuing a holistic approach to recent advances in the utilization of

various microbes as biotechnological tools, the book also covers traditional uses, and explores emerging strategies to harness their full potential. Accordingly, it offers a valuable resource for researchers and graduate students alike.

**Algal Adaptation to Environmental Stresses**

Cambridge University Press

An overview of the language in South Asia within a linguistic, historical and sociolinguistic context, comprising authoritative contributions from international scholars within the field of language and linguistics. It is an accessible interdisciplinary book for students and scholars in sociolinguistics, multilingualism, language planning and South Asian studies.

Biosensors in Agriculture: Recent Trends and Future Perspectives

John Wiley & Sons

NTMS'2007 was the first IFIP International Conference on New Technologies, Mobility and Security that was held from May 2 to May 4, 2007 in Paris, France. It was aimed at fostering advances in the areas such as New Technologies, Wireless Networks, Mobile Computing, Ad hoc and Ambient Networks, QoS, Network Security and E-commerce. It provided a dynamic forum for researchers, students and professionals to present their research and development in these areas.

**CLASSIC DATA STRUCTURES, 2nd ed.**

CRC Press  
Artificial intelligence and its various components are rapidly engulfing almost every professional industry. Specific features of AI that have proven to be vital solutions to numerous real-world issues are machine

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learning and deep learning. These intelligent agents unlock higher levels of performance and efficiency, creating a wide span of industrial applications. However, there is a lack of research on the specific uses of machine/deep learning in the professional realm. *Machine Learning and Deep Learning in Real-Time Applications* provides emerging research exploring the theoretical and practical aspects of machine learning and deep learning and their implementations as well as their ability to solve real-world problems within several professional disciplines including healthcare, business, and computer science. Featuring coverage on a broad range of topics such as image processing, medical improvements, and smart grids, this book is

ideally designed for researchers, academicians, scientists, industry experts, scholars, IT professionals, engineers, and students seeking current research on the multifaceted uses and implementations of machine learning and deep learning across the globe. *Data Structures Using C & C++* Springer Science & Business Media Sustainability is a key framework for analyzing biological systems—and turfgrass is no exception. It is part of a complex that encompasses turfgrass interactions with different environments and the suitability of different turfgrasses for specific environments. In addition to its biological role, turfgrass—in the form of lawns, green spaces, and playing surfaces—brings beneficial sociological effects to an increasingly urbanized society. This book presents a comprehensive overview of current knowledge and issues in the field of turfgrass research and management, including

the genetics and breeding, the diseases and pests, and the ecology of turfgrasses, and will appeal to a broad spectrum of readers. *Fundamentals of Data Structures in C++* Springer Science & Business Media Organic fertiliser refers to materials used as fertiliser that occur regularly in nature, usually as a by product or end product of a naturally occurring process. Organic fertilisers such as manure have been used in agriculture for thousands of years; ancient farmers did not understand the chemistry involved, but they did recognise the benefit of providing their crops with organic material. Interest in organic farming is growing world-wide as sustainable agricultural practice nowadays. Organic fertilisers are sustained sources of nutrients due to slow release during decomposition. By increasing soil organic matter, organic farming can reinstate the natural fertility of the damaged soil, which will improve the crop productivity to feed the growing population. Organic fertilisers enhance the natural soil

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processes, which have long-term effects on soil fertility. The book is a very valuable compilation in this direction.