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Extreme Environments International Conference on Innovative Computing and Communications Meta-Learning Frameworks for Imaging Applications Recent Trends in Biotechnology and Therapeutic Applications of Medicinal Plants Medicinal Plants and Environmental Challenges All India Civil List ॐॐॐॐ ॐॐॐॐ Annual Report - Central Soil Salinity Research Institute anthropology ॐॐॐॐॐॐॐ Yearbook of the Universities of the Empire ॐॐॐॐॐॐॐ

Extreme Environments 2021-06-24

the book extreme environments unique ecosystems amazing microbes is an attempt to showcase the uniqueness of extremophiles the largely unexplored group that has the abilities to function in hostile conditions and represent the very ancient life forms that thrived on earth billions of years ago the book covers a wide range of research achievements in the field of microbiology of extreme environments right from the conventional approaches of cultivation to recently evolved high throughput sequencing technologies the book provides a broad spectrum of information about the taxonomy physiology ecology and biotechnological applications of extremophiles from various extreme environments across the globe

International Conference on Innovative Computing and Communications 2022-09-26

this book includes high quality research papers presented at the fifth international conference on innovative computing and communication icicc 2022 which is held at the shaheed sukhdev college of business studies university of delhi delhi india on february 19 20 2022 introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications

Meta-Learning Frameworks for Imaging Applications 2023-09-28

meta learning or learning to learn has been gaining popularity in recent years to adapt to new tasks systematically and efficiently in machine learning in the book meta learning frameworks for imaging applications experts from the fields of machine learning and imaging come together to explore the current state of meta learning and its application to medical imaging and health informatics the book presents an overview of the meta learning framework including common versions such as model agnostic learning memory augmentation prototype networks and learning to optimize it also discusses how meta learning can be applied to address fundamental limitations of deep neural networks such as high data demand computationally expensive training and limited ability for task transfer one critical topic in imaging is image segmentation and the book explores how a meta learning based framework can help identify the best image segmentation algorithm which would be particularly beneficial in the healthcare domain this book is relevant to healthcare institutes e commerce companies and educational institutions as well as professionals and practitioners in the intelligent system computational data science network applications and biomedical applications fields it is also useful for domain developers and project managers from diagnostic and pharmacy companies involved in the development of medical expert systems additionally graduate and master students in intelligent systems big data management computational intelligent approaches computer vision and biomedical science can use this book for their final projects and specific courses

Recent Trends in Biotechnology and Therapeutic Applications of Medicinal Plants 2013-05-13

the book provides an overview of current trends in biotechnology and medicinal plant sciences the work includes detailed chapters on various advance biotechnological tools involved in production of phytoactive compounds of medicinal significance some recent and novel research studies on therapeutic applications of different medicinal plants from various geographical regions of the world have also been included these studies report the antimicrobial activity of various natural plant products against various pathogenic microbial strains informative chapters on recent emerging applications of plant products such as source for nutraceuticals and vaccines have been integrated to cover latest advances in the field this book also explores the conservation aspect of medicinal plants thus chapters having comprehensively compiled in vitro conservation protocols for various commercially important rare threatened and endangered medicinal plants were provided in the present book

Medicinal Plants and Environmental Challenges 2017-10-31

this book sheds new light on the role of various environmental factors in regulating the metabolic adaptation of medicinal and aromatic plants many of the chapters present cutting edge findings on the contamination of medicinal plants through horizontal transfer as well as nanomaterials and the biosynthesis of pharmacologically active compounds in addition the book highlights the impacts of environmental factors e g high and low temperature climate change global warming uv irradiation intense sunlight and shade ozone carbon dioxide drought salinity nutrient deficiency agrochemicals waste heavy metals nanomaterials weeds pests and pathogen infections on medicinal and aromatic plants emphasizing secondary metabolisms in recent years interest has grown in the use of bioactive compounds from natural sources medicinal and aromatic plants constitute an important part of the natural environment and agro ecosystems and contain a wealth of chemical compounds known as secondary metabolites and including alkaloids glycosides essential oils and other miscellaneous active substances these metabolites help plants cope with environmental and or external stimuli in a rapid reversible and ecologically meaningful manner additionally environmental factors play a crucial role in regulating the metabolic yield of these biologically active molecules understanding how medicinal plants respond to environmental perturbations and climate change could open new frontiers in plant production and in agriculture where successive innovation is urgently needed due to the looming challenges in connection with global food security and climate change readers will discover a range of revealing perspectives and the latest research on this vital

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