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Genetics, Evolution, and Conservation of Neotropical Fishes Frontiers Media SA

This book originates from a workshop organised by ESPRIT project 20 477, ARES in Las Palmas de Gran Canaria, Spain, February 1998. ARES is an acronym for Architectural Reasoning for Embedded Systems. Within this project we investigate techniques to deal with problems of software architecture of families of embedded systems. It is the second workshop organised by this project. Its predecessor was held in Las Navas de Marques, Spain, November 1996. The proceedings of the first workshop are only available in electronic format at "http://www.dit.upm.es/~ares/". The second workshop succeeded, even more than the first one, in gathering many of the most prominent people working in the area of software architecture for product families or product lines. This second workshop consisted of six sessions. The first session was meant to report the ARES results, according to the topics of the next five sessions. The remaining sessions dealt with different aspects of software architecture, focussed on applications for product families or product lines. Because there will be a separate book covering all ARES results, the first session is not included in this book. The workshop was chaired by Henk Obbink from Philips Research and Paul Clements from the Software Engineering Institute at Carnegie Mellon University. They prepared and presented an overall conclusion at the end of the workshop. This conclusion was used in the introduction to this book.

Diversity, Divergence, Dialogue Springer

This two volume set (CCIS 901 and 902) constitutes the refereed proceedings of the 4th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2018 (originally ICYCSEE) held in Zhengzhou, China, in September 2018. The 125 revised full papers presented in these two volumes were carefully reviewed and selected from 1057 submissions. The papers cover a wide range of topics related to basic theory and techniques for data science including mathematical issues in data science, computational theory for data science, big data management and applications, data quality and data preparation, evaluation and measurement in data science, data visualization, big data mining and knowledge management, infrastructure for data science, machine learning for data science, data security and privacy, applications of data science, case study of data science, multimedia data management and analysis, data-driven scientific research, data-driven bioinformatics, data-driven healthcare, data-driven management, data-driven eGovernment, data-driven smart city/planet, data marketing and economics, social media and recommendation systems, data-driven security, data-driven business model innovation, social and/or organizational impacts of data science.

Adaptation and Natural Selection Springer Science & Business Media

This book delivers the state of the art in deep learning (DL) methods hybridized with evolutionary computation (EC). Over the last decade, DL has dramatically reformed many domains: computer vision, speech recognition, healthcare, and automatic game playing, to mention only a few. All DL models, using different architectures and algorithms, utilize multiple processing layers for extracting a hierarchy of abstractions of data. Their remarkable successes notwithstanding, these powerful models are facing many challenges, and this book presents the collaborative efforts by researchers in EC to solve some of the problems in DL. EC comprises optimization techniques that are useful when problems are complex or poorly understood, or insufficient information about the problem domain is available. This family of algorithms has proven effective in solving problems with challenging characteristics such as non-convexity, non-linearity, noise, and irregularity, which dampen the performance of most classic optimization schemes. Furthermore, EC has been extensively and successfully applied in artificial neural network (ANN) research —from parameter estimation to structure optimization. Consequently, EC researchers are enthusiastic about applying their arsenal for the design and optimization of deep neural networks (DNN). This book brings together the recent progress in DL research where the focus is particularly on three sub-domains that integrate EC with DL: (1) EC for hyper-parameter optimization in DNN; (2) EC for DNN architecture design; and (3) Deep neuroevolution. The book also presents interesting applications of DL with EC in real-world problems, e.g., malware classification and object detection. Additionally, it covers recent applications of

EC in DL, e.g. generative adversarial networks (GAN) training and adversarial attacks. The book aims to prompt and facilitate the research in DL with EC both in theory and in practice.

Swarm Intelligence and Deep Evolution Frontiers Media SA

Language and memory have historically been studied apart, as unique cognitive abilities, and with distinct research traditions and methods. Over the past several decades, however, a growing body of evidence suggests that language and memory are heavily intertwined and may even rely on shared cognitive and neural mechanisms. Cutting across theoretical and methodological approaches, these findings offer novel insights into the interactions and interdependencies of language and memory. These advances also have considerable theoretical and clinical implications for the neurobiology of language and memory, their development, representation, and maintenance across the lifespan, the intervention and rehabilitation of disorders of language and memory, and the evolution of these two quintessential human abilities.

Deep Learning with Evolutionary Computation Springer

This volume constitutes the proceedings of the 10th International Conference on Simulated Evolution and Learning, SEAL 2012, held in Dunedin, New Zealand, in December 2014. The 42 full papers and 29 short papers presented were carefully reviewed and selected from 109 submissions. The papers are organized in topical sections on evolutionary optimization; evolutionary multi-objective optimization; evolutionary machine learning; theoretical developments; evolutionary feature reduction; evolutionary scheduling and combinatorial optimization; real world applications and evolutionary image analysis.

Mining Scientific Papers: NLP-enhanced Bibliometrics Springer

This book constitutes the refereed proceedings of the 10th International Conference on Asian Digital Libraries, ICADL 2007, held in Hanoi, Vietnam, in December 2007. The 41 revised full papers, 15 revised short papers, and extended abstracts of 10 poster papers presented together with three keynote and three invited papers were carefully reviewed and selected from a total of 154 submissions. The papers are organized in topical sections.

Genetics and Evolution Princeton University Press

Stories are everywhere around us, from the ads on TV or music video clips to the more sophisticated stories told by books or movies. Everything comes wrapped in a story, and the means employed to weave the narrative thread are just as important as the story itself. In this context, there is a need to understand the role storytelling plays in contemporary society, which has changed drastically in recent decades. Modern global society is no longer exclusively dominated by the time-tested narrative media such as literature or films because new media such as videogames or social platforms have changed the way we understand, create, and replicate stories. The Handbook of Research on Contemporary Storytelling Methods Across New Media and Disciplines is a comprehensive reference book that provides the relevant theoretical framework that concerns storytelling in modern society, as well as the newest and most varied analyses and case studies in the field. The chapters of this extensive volume follow the construction and interpretation of stories across a plethora of contemporary media and disciplines. By bringing together radical forms of storytelling in traditional disciplines and methods of telling stories across newer media, this book intersects themes that include interactive storytelling and narrative theory across advertisements, social media, and knowledge-sharing platforms, among others. It is targeted towards professionals, researchers, and students working or studying in the fields of narratology, literature, media studies, marketing and communication, anthropology, religion, or film studies. Moreover, for interested executives and entrepreneurs or prospective influencers, the chapters dedicated to marketing and social media may also provide insights into both the theoretical and the practical aspects of harnessing the power of storytelling in order to create a cohesive and impactful online image.

Simulated Evolution and Learning Annie Pettit

Due to the exceptional nature of the COVID-19 situation, Frontiers is waiving all article publishing charges for COVID-19 related research in this Research Topic.

Handbook of Financial Markets: Dynamics and Evolution National Academies Press

This book constitutes the refereed proceedings of the 4th International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction, held in College Park, MD, USA, March 29-31, 2011. The 48 papers and 3 keynotes presented in this volume were carefully reviewed and selected from 88 submissions. The papers cover a wide range of topics including social network analysis; modeling; machine learning and data mining; social behaviors; public health; cultural aspects; and effects and search.

11th International Conference, SEAL 2017, Shenzhen, China, November 10 – 13, 2017, Proceedings Springer Science & Business Media

Early Avian EvolutionFrontiers Media SAResearch topics in software evolution and maintenanceHow Evolution Shapes Our LivesEssays on Biology and SocietyPrprinceton University Press

A Progressive Vision for American Reform Academic Press

The models of portfolio selection and asset price dynamics in this volume seek to explain the market dynamics of asset prices. Presenting a range of analytical, empirical, and numerical techniques as well as several different modeling approaches, the authors depict the state of debate on the market selection hypothesis. By explicitly assuming the heterogeneity of investors, they present models that are descriptive and normative as well, making the volume useful for both finance theorists and financial practitioners. * Explains the market dynamics of asset prices, offering insights about asset management approaches * Assumes a heterogeneity of investors that yields descriptive and normative models of portfolio selections and asset pricing dynamics

Data Science Birkh ä user

On May 19, 1933, President Franklin D. Roosevelt announced the appointment of Arthur Morgan (1879-1975), a water-control engineer and college president from Ohio as the chairman of the newly created Tennessee Valley Authority (TVA). With the eyes of the nation focused on the reform and recovery promised by the New Deal, Morgan remained in the national spotlight for much of the 1930s in this thoughtful biography Aaron D. Purcell re-assesses Morgan's long life and career and provides the first detailed account of his post-TVA activities. As Purcell demonstrates, Morgan embraced an alternative types of Progressive Era reform that was rooted in nineteenth-century socialism, an overlooked strain in American political thought. Purcell Pinpoints Morgan's reading of Edward Bellamy's Looking Backward while a teenager as a watershed moment in the development of his vision for building modern American society. He recounts Morgan's early successes as an engineer budding Progressive-leader, and educational reformer his presidency of Antioch College, and his revolutionary but contentious tenure at the TVA After his dismissal from the TVA Morgan eventually published over a dozen books, including a biography of Bellamy, while supporting community-building efforts across the globe, Morgan retained many of his late-nineteenth century beliefs, including eugenics, as part of his societal vision. His authoritarian administrative style and moral rigidity limited his ability of attract large numbers to his community-based vision. By presenting Morgan's life and career within the context of the larger social and cultural events of his day, this revealing biographical study offers new insight into the achievements and motivations of an important but historically neglected American reformer. Book

jacket.

How Evolution Shapes Our Lives Springer Nature

MCDM 2009, the 20th International Conference on Multiple-Criteria Decision M- ing, emerged as a global forum dedicated to the sharing of original research results and practical development experiences among researchers and application developers from different multiple-criteria decision making-related areas such as multiple-criteria decision aiding, multiple criteria classification, ranking, and sorting, multiple obj- tive continuous and combinatorial optimization, multiple objective metaheuristics, multiple-criteria decision making and preference modeling, and fuzzy multiple-criteria decision making. The theme for MCDM 2009 was " New State of MCDM in the 21st Century. " The conference seeks solutions to challenging problems facing the development of multiple-criteria decision making, and shapes future directions of research by prom- ing high-quality, novel and daring research findings. With the MCDM conference, these new challenges and tools can easily be shared with the multiple-criteria decision making community. The workshop program included nine workshops which focused on different topics in new research challenges and initiatives of MCDM. We received more than 350 submissions for all the workshops, out of which 121 were accepted. This includes 72 regular papers and 49 short papers. We would like to thank all workshop organizers and the Program Committee for the excellent work in maintaining the conference ' s standing for high-quality papers.

Simulated Evolution and Learning Springer Science & Business Media

Today many school students are shielded from one of the most important concepts in modern science: evolution. In engaging and conversational style, Teaching About Evolution and the Nature of Science provides a well-structured framework for understanding and teaching evolution. Written for teachers, parents, and community officials as well as scientists and educators, this book describes how evolution reveals both the great diversity and similarity among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use to introduce principles of evolution. Background information, materials, and step-by-step presentations are provided for each activity. In addition, this volume: Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction. Answers frequently asked questions about evolution. Teaching About Evolution and the Nature of Science builds on the 1996 National Science Education Standards released by the National Research Council--and offers detailed guidance on how to evaluate and choose instructional materials that support the standards. Comprehensive and practical, this book brings one of today's educational challenges into focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school administrators, and interested members of the community.

Essays on Biology and Society Greenwood Publishing Group

In paleoanthropology the group of hominids known as the "robust" australopithecines has emerged as one of the most interesting. Through them we have the opportunity to examine the origin, natural history, and ultimate extinction of not just a single species, but of an entire branch in the hominid fossil record. It is generally agreed that the human lineage can be traced back to this group of comparatively small-brained, large-toothed creatures. This volume focuses on the evolutionary history of these early hominids with state-of-the-art contributions by leading international authorities in the field. Although a case can be made for a "robust" lineage, the functional and taxonomic implications of the morphological features are subject to vigorous disagreement. An area of lively debate is the possible causal relationship between the presence of early Homo and the origin, evolution, and virtual extinction of "robust" australopithecines.This volume summarizes what has been learned about the evolutionary history of the "robust" australopithecines in the 50 years since Robert Broom first encountered the visage of a new kind of ape-man from Kromdraai. New discoveries from Kromdraai to Lomekwi have served to keep us aware that the paleontological record for hominid evolution is hardly exhausted. Because of such finds no single volume can hope to stand as a summary on the "robust" australopithecines for very long, but this classic volume comes close to achieving this goal. The book sheds new light upon some old questions and also acts to provide new questions. The answers to those questions bring us closer to a fuller understanding and appreciation of the origins, evolution, and ultimate demise of the "robust" australopithecines. Since the "robust" australopithecines most likely stand as our closest relatives, a better understanding of their origin, history, and demise serves to provide heightened appreciation of the course of human evolution itself. This definitive volume addresses the questions and problems surrounding this important lineage.

Evolutionary History of the Robust Australopithecines Princeton University Press

This volume is an outgrowth of a Symposium entitled "Evolution of Escape in Space and Time" held at the XV International Congress of Entomology in Washington, D. C., USA in August, 1976. The choice of topic was prompted by recent advances in evolutionary ecology and the apparent suitability of insect migration and dia pause as appropriate material for evolutionary studies. In the event, that choice seems amply justified as I hope a perusal of these papers will show. These Sympos ium papers hardly cover the topic of the evolution of escape mechanisms exhaustively, and I am sure everyone will have his favorite lacuna. Some of the more obvious ones are indicated by Professor Southwood in his Concluding Remarks at the end of the book. The purpose of the Symposium, however, was not complete coverage, but rather to indicate the potential inherent in insect migration and diapause for the study of evolutionary problems. In that I think we have succeeded reasonably well. These papers are expanded and in some cases somewhat altered versions of the papers delivered in Washington. This has allowed greater coverage of the topics in question. I suggested a format of a general overview of a topic emphasizing the author's own research con tributions. In general the papers follow this outline although emphases vary. Two of the authors, Dr. Rainey and Dr. Lumme, were unable to attend the Symposium. Dr. Rainey's paper was read by Mr. Frank Walsh, but Dr.

20th International Conference, MCDM 2009, Chengdu/Jiuzhaigou, China, June 21-26, 2009. Proceedings Springer Nature

This book constitutes the refereed proceedings of the 11th International Conference on Simulated Evolution and Learning, SEAL 2017, held in Shenzhen, China, in November 2017. The 85 papers presented in this volume were carefully reviewed and selected from 145 submissions. They were organized in topical sections named: evolutionary optimisation; evolutionary multiobjective optimisation; evolutionary machine learning; theoretical developments; feature selection and dimensionality reduction; dynamic and uncertain environments; real-world applications; adaptive systems; and swarm intelligence.

Information and Communication Frontiers Media SA

Four years ago we edited a volume of 36 papers entitled Molecular Approaches to Ecology and Evolution (Schierwater et ai. , 1994), in which we attempted to put to gether a diverse array of papers that demonstrated the impact that the technologi cal revolution ofmolecular biology has had on the field ofevolutionary biologyand ecology. The present volume borrows from that theme but attempts to focus more sharply on the impact that molecular biology has had on our understanding of dif ferent hierarchical levels important in evolutionary and ecological studies. Because DNA sequence variation is at the heart ofeverypaper in the present volume, we feel it necessary to examine how DNA has affected study at various levels of biological organization. The majority of the chapters in the present volume follow themes es tablished in the earlier volume; all chapters by authors in the previous volume are either fully updated or entirely new and expand into areas that we felt were impor tant for a more complete understanding of the impact of DNA technology on ecol ogy and evolution. The collection of papers in this volume cover a diverse

array of ecological and evolutionary questions and demonstrates the breadth of coverage molecular tech nology has imparted on modern evolutionary biology. There are also a broad range of hierarchical questions approached by the 17 papers in this volume.

Early Avian Evolution Early Avian Evolution

Biological evolution is a fact—but the many conflicting theories of evolution remain controversial even today. When Adaptation and Natural Selection was first published in 1966, it struck a powerful blow against those who argued for the concept of group selection—the idea that evolution acts to select entire species rather than individuals. Williams ' s famous work in favor of simple Darwinism over group selection has become a classic of science literature, valued for its thorough and convincing argument and its relevance to many fields outside of biology. Now with a new foreword by Richard Dawkins, Adaptation and Natural Selection is an essential text for understanding the nature of scientific debate.

Social Computing, Behavioral-Cultural Modeling and Prediction National Academies Press

This volume constitutes the proceedings of the 7th International Conference on Simulated Evolution and Learning, SEAL 2008, held in Melbourne, Australia, during December 7-10, 2008. The 65 papers presented were carefully reviewed and selected from 140 submissions. The topics covered are evolutionary learning; evolutionary optimisation; hybrid learning; adaptive systems; theoretical issues in evolutionary computation; and real-world applications of evolutionary computation techniques.