

Evolution Challenges Integrating Research And Practice In Teaching And Learning About Evolution

Swarm, Evolutionary, and Memetic Computing Integrating Quantitative and Qualitative Research in Development Projects The Evolution of Flexible Integration in European Defence Policy Integrating Innovation Systems Perspective and Value Chain Analysis in Agricultural Research for Development Phenotypic Integration Evolutionary Biology The Epistemology of Development, Evolution, and Genetics Evolution and International Organization Evolution of Supply Chain Management Social Web Evolution: Integrating Semantic Applications and Web 2.0 Technologies Evolutionary Acquisition Integrating Organizational Evolution and Strategy Framing Immigrant Integration The Evolution of Global Paper Industry 1800–2050 VLSI-SoC: Technologies for Systems Integration E-Government Interoperability and Information Resource Integration: Frameworks for Aligned Development Evolutionary Conservation Biology The Evolution of International Security Studies Evolutionary Studies Research topics in software evolution and maintenance Evolutionary Biomechanics Understanding Evolution Cultural Evolution Applications of Evolutionary Computation Integrating Ecology and Evolution in a Spatial Context Philosophical Transactions Frontiers in Ecology, Evolution and Complexity Web-Enabled Systems Integration: Practices and

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Challenges Evolutionary Paths Towards the Mobility Patterns of the Future Evolution Challenges The Evolution of Mammalian Sociality in an Ecological Perspective The Evolution of Integrated Marketing Communications Designing Complex Web Information Systems: Integrating Evolutionary Process Engineering Professionalism and Public Service Conceptual Challenges in Evolutionary Psychology Handbook of Research on Business Process Modeling Oceanography Conceptual Challenges in Evolutionary Psychology Evolutionary Perspectives on Environmental Problems View Evolution Support for Information Integration Systems Over Dynamic Distributed Information Spaces

Swarm, Evolutionary, and Memetic Computing

This brief discusses factors associated with group formation, group maintenance, group population structure, and other events and processes (e.g., physiology, behavior) related to mammalian social evolution. Within- and between-lineages, features of prehistoric and extant social mammals, patterns and linkages are discussed as components of a possible social “tool-kit”. “Top-down” (predators to nutrients), as well as “bottom-up” (nutrients to predators) effects are assessed. The present synthesis also emphasizes outcomes of Hebbian (synaptic) decisions on Malthusian parameters (growth rates of populations) and their consequences for (shifting) mean fitnesses of populations. Ecology and evolution (EcoEvo) are

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connected via the organism's "norms of reaction" (genotype x environment interactions; life-history tradeoffs of reproduction, survival, and growth) exposed to selection, with the success of genotypes influenced by intensities of selection as well as neutral (e.g. mutation rates) and stochastic effects. At every turn, life history trajectories are assumed to arise from "decisions" made by types responding to competition for limiting resources constrained by Hamilton's rule (inclusive fitness operations).

Integrating Quantitative and Qualitative Research in Development Projects

This series will include monographs and collections of studies devoted to the investigation and exploration of knowledge, information, and data-processing systems of all kinds, no matter whether human, (other) animal, or machine. Its scope is intended to span the full range of interests from classical problems in the philosophy of mind and philosophical psychology through issues in cognitive psychology and sociobiology (concerning the mental capabilities of other species) to ideas related to artificial intelligence and to computer science. While primary emphasis will be placed upon theoretical, conceptual, and epistemological aspects of these problems and domains, empirical, experimental, and methodological studies will also appear from time to time. Few areas of inquiry have generated as

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much interest and enthusiasm in recent times as has the discipline known as "evolutionary psychology", but its pretensions and its accomplishments have not always been properly understood. This collection brings together important work in psychology, anthropology, and the philosophy of science that contributes toward that goal, especially by emphasizing the role of natural selection and sexual selection as crucial factors in the evolution of cognitive mechanisms for information processing. The methodological studies that are presented here are bound to enhance appreciation for the scope and limits of this fascinating domain. The editor has produced a fascinating volume that should appeal to a broad and diverse audience.

The Evolution of Flexible Integration in European Defence Policy

Over the past few decades, a growing body of research has emerged from a variety of disciplines to highlight the importance of cultural evolution in understanding human behavior. Wider application of these insights, however, has been hampered by traditional disciplinary boundaries. To remedy this, in this volume leading researchers from theoretical biology, developmental and cognitive psychology, linguistics, anthropology, sociology, religious studies, history, and economics come together to explore the central role of cultural evolution in

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different aspects of human endeavor. The contributors take as their guiding principle the idea that cultural evolution can provide an important integrating function across the various disciplines of the human sciences, as organic evolution does for biology. The benefits of adopting a cultural evolutionary perspective are demonstrated by contributions on social systems, technology, language, and religion. Topics covered include enforcement of norms in human groups, the neuroscience of technology, language diversity, and prosociality and religion. The contributors evaluate current research on cultural evolution and consider its broader theoretical and practical implications, synthesizing past and ongoing work and sketching a roadmap for future cross-disciplinary efforts. Contributors: Quentin D. Atkinson, Andrea Baronchelli, Robert Boyd, Briggs Buchanan, Joseph Bulbulia, Morten H. Christiansen, Emma Cohen, William Croft, Michael Cysouw, Dan Dediu, Nicholas Evans, Emma Flynn, Pieter François, Simon Garrod, Armin W. Geertz, Herbert Gintis, Russell D. Gray, Simon J. Greenhill, Daniel B. M. Haun, Joseph Henrich, Daniel J. Hruschka, Marco A. Janssen, Fiona M. Jordan, Anne Kandler, James A. Kitts, Kevin N. Laland, Laurent Lehmann, Stephen C. Levinson, Elena Lieven, Sarah Mathew, Robert N. McCauley, Alex Mesoudi, Ara Norenzayan, Harriet Over, Jürgen Renn, Victoria Reyes-García, Peter J. Richerson, Stephen Shennan, Edward G. Slingerland, Dietrich Stout, Claudio Tennie, Peter Turchin, Carel van Schaik, Matthijs Van Veelen, Harvey Whitehouse, Thomas Widlok, Polly Wiessner, David Sloan Wilson

Integrating Innovation Systems Perspective and Value Chain Analysis in Agricultural Research for Development

"So far, EA implementation of military space programs has produced mixed results. The capabilities and requirements definition and management processes are major challenges in all EA programs. EA programs require an evolutionary costing approach; most cost analysts interviewed expressed generally positive views about EA."--BOOK JACKET.

Phenotypic Integration

This book reviews, updates and enhances the basic concepts surrounding the academic theory and practice of Integrated Marketing Communication (IMC). Since the introduction of IMC in the late 1980s, the concept has spread around the world. In that expansion, many authors have written about IMC; practitioners have adopted and adapted the concept to fit their own market situations. Further, dramatic changes have occurred in the technologies used in marketing communications which consumers have accepted and employed in their consumption of marketers' messages and incentives. Thus, there have been dramatic changes in how IMC was initially envisioned and how it has developed over time. This book identifies and discusses these changes, how they have

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occurred and what they mean going forward for all types of marketers around the world. Thus, IMC, and indeed integration of communications at all organisational levels is an essential in the 21st century organisations. This book was published as a special issue of the Journal of Marketing Communications.

Evolutionary Biology

A report based on a workshop held in 1998 at which outside research specialists and World Bank staff discussed the importance of integrating quantitative and qualitative research methods and reviewed experiences in the use of mixed method approaches in Bank research and project design.

The Epistemology of Development, Evolution, and Genetics

The advances of the WWW have dramatically increased the need for efficient and flexible mechanisms to provide integration methods for multiple information sources, which has caused a need for a careful integration of the concepts and systems. It is of great importance for issues and concerns to be identified and handled, in order to ensure the continuous building of systems for ever-changing technology and business requirements. Web-Enabled Systems Integration: Practices and Challenges consists of a collection of quality research papers that

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describe original ideas and insights associated with the task of integration.

Evolution and International Organization

An integrative view of the evolution of genetics and the natural world Even in this advanced age of genomics, the evolutionary process of unicellular and multicellular organisms is continually in debate. Evolutionary Biology, Cell?Cell Communication, and Complex Disease challenges current wisdom by using physiology to present an integrative view of the nature, origins, and evolution of fundamental biological systems. Providing a deeper understanding of the way genes relate to the traits of living organisms, this book offers useful information applying evolutionary biology, functional genomics, and cell communication studies to complex disease. Examining the 4.5 billion-year evolution process from environment adaptations to cell-cell communication to communication of genetic information for reproduction, Evolutionary Biology hones in on the "why and how" of evolution by uniquely focusing on the cell as the smallest unit of biologic structure and function. Based on empirically derived data rather than association studies, Evolutionary Biology covers: A model for forming testable hypotheses in complex disease studies The integrating role played by the evolution of metabolism, especially lipid metabolism The evolutionary continuum from development to homeostasis Regeneration and aging mediated by signaling molecules Ambitious and game-changing Evolutionary Biology suggests that

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biology began as a mechanism for reducing energy within the cell, defying the Second Law of Thermodynamics. An ideal text for those interested in forward thinking scientific study, the insights presented in Evolutionary Biology help practitioners effectively comprehend the evolutionary process.

Evolution of Supply Chain Management

There is a paradox when it comes to Darwinian ideas within the academy. On one hand, Darwin's theories have famously changed the foundational ideas related to the origins of life, shaping entire disciplines in the biological sciences. On the other hand, people in educated societies across the globe today are famously misinformed and uneducated about Darwinian principles and ideas. Applications of evolutionary theory outside the traditional areas of biology have been slow to progress, and scholars doing such work regularly run into all kinds of political backlash. However, a slow but steady push to advance the teaching of evolution across academic disciplines has been under way for more than a decade. This book serves to integrate the vast literature in the interdisciplinary field of Evolutionary Studies (EvoS), providing clear examples of how evolutionary concepts relate to all facets of life. Further, this book provides chapters dedicated to the processes associated with an EvoS education, including examples of how an interdisciplinary approach to evolutionary theory has been implemented successfully at various colleges, universities, and degree programs. This book also offers chapters

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outlining a variety of applications to an evolution education, including improved sustainable development, medical practices, and creative and critical thinking skills. Exploring controversies surrounding evolution education, this volume provides a roadmap to asking and answering Darwinian questions across all areas of intellectual inquiry.

Social Web Evolution: Integrating Semantic Applications and Web 2.0 Technologies

Evolutionary Acquisition

This book constitutes the refereed conference proceedings of the 18th International Conference on the Applications of Evolutionary Computation, EvoApplications 2015, held in Copenhagen, Spain, in April 2015, colocated with the Evo 2015 events EuroGP, EvoCOP, and EvoMUSART. The 72 revised full papers presented were carefully reviewed and selected from 125 submissions. EvoApplications 2015 consisted of the following 13 tracks: EvoBIO (evolutionary computation, machine learning and data mining in computational biology), EvoCOMNET (nature-inspired techniques for telecommunication networks and other parallel and distributed systems), EvoCOMPLEX (evolutionary algorithms and

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complex systems), EvoENERGY (evolutionary computation in energy applications), EvoFIN (evolutionary and natural computation in finance and economics), EvoGAMES (bio-inspired algorithms in games), EvoIASP (evolutionary computation in image analysis, signal processing, and pattern recognition), EvoINDUSTRY (nature-inspired techniques in industrial settings), EvoNUM (bio-inspired algorithms for continuous parameter optimization), EvoPAR (parallel implementation of evolutionary algorithms), EvoRISK (computational intelligence for risk management, security and defence applications), EvoROBOT (evolutionary computation in robotics), and EvoSTOC (evolutionary algorithms in stochastic and dynamic environments).

Integrating Organizational Evolution and Strategy

Advances in molecular biology, remote sensing, systems biology, bioinformatics, non-linear science, the physics of complex systems and other fields have rendered a great amount of data that remain to be integrated into models and theories that are capable of accounting for the complexity of ecological systems and the evolutionary dynamics of life. It is thus necessary to provide a solid basis to discuss and reflect on these and other challenges both at the local and global scales. This volume aims to delineate an integrative and interdisciplinary view that suggests new avenues in research and teaching, critically discusses the scope of the diverse methods in the study of complex systems, and points at key open questions.

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Finally, this book will provide students and specialists with a collection of high quality open access essays that will contribute to integrate Ecology, Evolution and Complexity in the context of basic research and in the field of Sustainability Sciences.

Framing Immigrant Integration

The first intellectual history of International Security Studies since 1945, providing an unparalleled survey for students and scholars.

The Evolution of Global Paper Industry 1800--2050

VLSI-SoC: Technologies for Systems Integration

In the last half of the twentieth century industry encountered a revolutionary change brought about by the harnessed power of seemingly ever-increasing capacity, speed and functionality of computers and microprocessors. This strength provided management and workers within industries with new capabilities for management, planning and control, design, quality assurance and customer support. Organized information flow became the mainstay of industrial companies.

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New tools and information technology systems emerged and evolved to enable companies to integrate the various departments (Design, Procurement, Manufacturing, Sales and Finance) within companies, particularly the larger ones, including international corporations. This was to give them a chance to meet new demands for product time to market, just in time supply of orders, and customer support. To the smaller company these changes were not so apparent. Neither the tools nor systems nor indeed their economic value seemed appropriate to them except for special cases. While all this was happening the structure of the larger companies began to disintegrate. Strong competitive pressures and globalization of the market place brought this about. Shedding unwanted competence and subcontracting it to others became common practice. Regional market pressures triggered companies to reorganize to create, produce, and distribute goods and services. Greater dependency on chains of supply from external companies became the norm. Medium and smaller sized companies began to gain some advantage and at the same time some were sucked into management and control systems governed by the larger companies.

E-Government Interoperability and Information Resource Integration: Frameworks for Aligned Development

Provides a complete view of the architectures, problems, and solutions linked to

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the design and development of modern web information systems.

Evolutionary Conservation Biology

The twenty-first century presents an increasing number of environmental problems, including toxic pollution, global warming, destruction of tropical forests, extinction of biological diversity, and depletion of natural resources. These environmental problems are generally due to human behavior, namely over-consumption of resources and overpopulation. Designing effective policies to address these problems requires a deep understanding of human behavior as well as ecology. This in turn requires considerations of human nature, and the evolutionary "design" of the human mind. Evolutionary research on human behavior has profound implications for the environmental sciences. The aim of this collection is to bring together a variety of chapters that show how and why. Part 1, "Human Nature and Resource Conservation," addresses environmental problems from different evolutionary perspectives. Part 2, "The Ecological Noble Savage Hypothesis," examines the notion that our environmental problems are due to Western culture, and that our ancestors and people in indigenous societies lived in harmony with nature until the corrupting influences of Western culture. Part 3, "The Tragedy of the Commons," explores the conservation of common-pool or open-access natural resources, such as fisheries, forests, grazing lands, freshwater, and clean air. Part 4, "The Evolution of Discounting and Conspicuous

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Consumption," looks at the problem of explaining why people are so ecologically short-sighted and why people in developed countries consume so many resources. Part 5, "Overpopulation and Fertility Declines," addresses the evolution of human reproductive decisions. Part 6, "Biophilia," aims to explain why people cherish nature as well as destroy it. The goal of this volume is to introduce environmental thinkers to evolutionary perspectives on human behavior, and the new interdisciplinary sciences of evolutionary psychology and behavioral ecology. This reader aims to help bridge the artificial division between the biological and social sciences, and provide a synthesis between evolutionary sciences of human behavior and environmental sciences. Dustin J. Penn is director, Konrad Lorenz Institute, Austrian Academy of Sciences, Vienna. Iver Myrsterud is biologist and researcher at the Department of Biology, University of Oslo, Norway.

The Evolution of International Security Studies

Evolutionary Studies

Research topics in software evolution and maintenance

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Why is evolution so difficult to understand? Uncover the common misconceptions and core concepts in this concise and accessible book.

Evolutionary Biomechanics

Evolution Challenges goes beyond the science versus religion debate to ask why evolution is so often rejected as a legitimate scientific fact, focusing on a wide range of cognitive, socio-cultural, and motivational factors that make concepts such as evolution difficult to grasp.

Understanding Evolution

Debates on immigrant integration often center on “national models of integration,” a concept that reflects the desire of both researchers and policy makers to find common ground. This book challenges the idea that there has ever been a coherent or consistent Dutch model of integration and asserts that though Dutch society has long been seen as exemplary for its multiculturalism—and argues that the incorporation of migrants remains one of the country's most pressing social and political concerns. In addition to an analysis of how immigration is framed and reframed through diverse dialogues, the author provides a highly dynamic overview of integration policy and its evolution alongside migration research.

Cultural Evolution

Leading population biologists examine ecological and evolutionary issues in the context of space.

Applications of Evolutionary Computation

"This book explores the potential of Web 2.0 and its synergies with the Semantic Web and provides state-of-the-art theoretical foundations and technological applications"--Provided by publisher.

Integrating Ecology and Evolution in a Spatial Context

This title discusses the study of evolution through the analysis of biomechanical systems. Instead of reviewing the entire breadth of the biomechanical literature, a few key examples are explored in depth as vehicles for discussing fundamental concepts, analytical techniques, and evolutionary theory.

Philosophical Transactions

As anthropogenic environmental changes spread and intensify across the planet,

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conservation biologists have to analyze dynamics at large spatial and temporal scales. Ecological and evolutionary processes are then closely intertwined. In particular, evolutionary responses to anthropogenic environmental change can be so fast and pronounced that conservation biology can no longer afford to ignore them. To tackle this challenge, areas of conservation biology that are disparate ought to be integrated into a unified framework. Bringing together conservation genetics, demography, and ecology, this book introduces evolutionary conservation biology as an integrative approach to managing species in conjunction with ecological interactions and evolutionary processes. Which characteristics of species and which features of environmental change foster or hinder evolutionary responses in ecological systems? How do such responses affect population viability, community dynamics, and ecosystem functioning? Under which conditions will evolutionary responses ameliorate, rather than worsen, the impact of environmental change?

Frontiers in Ecology, Evolution and Complexity

This edited volume presents new insights and challenges in the field of electric mobility in relation to new mobility and infrastructure concepts as well as to renewable energies. The book covers the socio-economic view on the topic as well as technical aspects and thus offers valuable knowledge for future business models. It primarily addresses practitioners and researchers in the field but may

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also be of use to graduate students.

Web-Enabled Systems Integration: Practices and Challenges

This LNCS volume contains the papers presented at the First Swarm, Evolutionary and Memetic Computing Conference (SEMCCO 2010) held during December 16--18, 2010 at SRM University, Chennai, in India. SEMCCO 2010 marked the beginning of a prestigious international conference series that aims at bringing together researchers from academia and industry to report and review the latest progress in the cutting-edge research on swarm, evolutionary, and memetic computing, to explore new application areas, to design new bio-inspired algorithms for solving specific hard optimization problems, and finally to create awareness on these domains to a wider audience of practitioners. SEMCCO 2010 received 225 paper submissions from 20 countries across the globe. After a rigorous peer-review process involving 610 reviews in total, 90 full-length articles were accepted for oral presentation at the conference. This corresponds to an acceptance rate of 40% and is intended for maintaining the high standards of the conference proceedings. The papers included in this LNCS volume cover a wide range of topics in swarm, evolutionary, and memetic computing algorithms and their real-world applications in problems selected from diverse domains of science and engineering.

Evolutionary Paths Towards the Mobility Patterns of the Future

A new voice in the nature-nurture debate can be heard at the interface between evolution and development. Phenotypic integration--or, how large numbers of characteristics are related to make up the whole organism, and how these relationships evolve and change their function--is a major growth area in research, attracting the attention of evolutionary biologists, developmental biologists, and geneticists, as well as, more broadly, ecologists, physiologists, and paleontologists. This edited collection presents much of the best and most recent work the topic.

Evolution Challenges

Focuses on the integration of new technologies into digital government, generating new insights into e-government interoperability.

The Evolution of Mammalian Sociality in an Ecological Perspective

Each issue of Transactions B is devoted to a specific area of the biological sciences, including clinical science. All papers are peer reviewed and edited to the highest standards. Published on the 29th of each month, Transactions B is essential

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reading for all biologists.

The Evolution of Integrated Marketing Communications

This book contains extended and revised versions of the best papers presented at the 17th IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2009, held in Florianópolis, Brazil, in October 2009. The 8 papers included in the book together with two keynote talks were carefully reviewed and selected from 27 papers presented at the conference. The papers cover a wide variety of excellence in VLSI technology and advanced research addressing the current trend toward increasing chip integration and technology process advancements bringing about stimulating new challenges both at the physical and system-design levels, as well as in the test of these systems.

Designing Complex Web Information Systems: Integrating Evolutionary Process Engineering

This book presents an historical analysis of the global paper industry evolution from a comparative perspective. At the centre are 16 producing countries (Finland, Sweden, Norway, the USA, Germany, Canada, Japan, the UK, the Netherlands, Italy, Spain, Portugal, Chile, Brazil, Uruguay and Russia). A comparative study of the

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paper industry evolution can achieve the following important research objectives. First, we can identify the country specific historical features of paper industry evolution and compare them to the general business trends explicable by existing theoretical knowledge. Second, we can identify and isolate the factors causing both the rise and fall of industrial populations. Third, a shared research agenda can produce an intensive analysis of global industry dynamics. Finally, an extended research period of 250 years can identify what is truly unique in the paper industry evolution and the extent to which it took the same path as other important manufacturing industries.

Professionalism and Public Service

unlike the historical-descriptive or legalistic approaches still pervading the majority of publications on international organization, has an implicit (empirical-) theoretical orientation. As a concomitant development, Yalem notes an increasing methodological sophistication among some students of international organization. However, except for some favorable comments on the evolving theory of international community formation, Yalem does not evaluate the contribution of the empirical-theory-cum methodology literature to the study of international organization. More recently, Riggs and his associates (1970) and Alger (1960-70; 1970) have taken it upon themselves to do just this. The analysis of the impact of behavioralism on the study of the United Nations system by Robert

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Riggs and his associates is a rather devastating indictment. Though demonstrating a concern to present balanced and qualified conclusions from their pemsal of the relevant literature, they summarize their assessment in the following statement: Behavioral research has probably been the most disappointing in the area of its central concern, that of theory-building. The grand theories tend to be heuristic in nature, divorced from the essential data base; and the best-supported propositions have the natrowest theoretical significance. Despite its aims and pretensions, the approach has not yet produced a coherent set of explanatory propositions to bring order or scientific exactness to the study of international organization or any substantial segment of it (Riggs et al. , 1970: 230).

Conceptual Challenges in Evolutionary Psychology

Representing the leading scholars in the field, Professionalism and Public Service assesses the state of public administration in Canada while also moving the discipline forward both as a profession and an academic discipline. The contributors to this volume trace the evolution of public administration institutions and explore issues such as the protection and improvement of the public service, recent innovations in the area of service delivery, and how this has created increased legitimacy and recognition from citizens. The various chapters also examine the importance of ongoing learning and training within the public service, and study many recent advances in teaching methods for both students as well as

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for public administration practitioners. Written in honour of Kenneth Kernaghan, the groundbreaking scholar who played an important role in public administration in Canada, *Professionalism and Public Service* thematically highlights some of his lasting contributions to the discipline. It is a history of the recent evolution of an essential part of Canadian governance and a fitting tribute to a distinguished scholar.

Handbook of Research on Business Process Modeling

"This book aids managers in the transformation of organizations into world-class competitors through business process applications"--Provided by publisher.

Oceanography

These essays examine the developments in three fundamental biological disciplines--embryology, evolutionary biology, and genetics. These disciplines were in conflict for much of the 20th century and the essays in this collection examine key methodological problems within these disciplines and the difficulties faced in overcoming the conflicts between them. Burian skillfully weaves together historical appreciation of the settings within which scientists work, substantial knowledge of the biological problems at stake and the methodological and philosophical issues

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faced in integrating biological knowledge drawn from disparate sources.

Conceptual Challenges in Evolutionary Psychology

This book offers a multi-disciplinary approach by scientists and philosophers that reveals the stamp of evolution on everyday life: how kinship unravels nurture, how family life affects the personalities we acquire, how our minds develop to negotiate social hierarchies, whether we decide to eat or not, what qualities we prefer in our sexual and marriage patterns, how we name and raise our children, how our thoughts and emotions are framed to make adaptive decisions, and methods for identifying evolved adaptations of the human life-cycle. It serves as an advanced text for students and scholars that critiques the dominating work of Buss, Cosmides and Tooby, Dennett, and Pinker. Taking the field beyond the narrow and contentious innatist-adaptionist view of the mind, it supplies a much sought-after interactional, `biopsychosociocultural' paradigm using a variety of evidence to converge on carefully reasoned conclusions.

Evolutionary Perspectives on Environmental Problems

View Evolution Support for Information Integration Systems

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