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Using Nobel Prize-winning examples like the transistor, laser, and magnetic resonance imaging, Venky Narayanamurti and Tolu Odumosu explore the daily micro-practices of research and show that distinctions between the search for knowledge and creative problem solving break down when one pays attention to how pathbreaking research actually happens. Revived appreciation of John Dewey as an inspirational advocate of participatory democracy has been tempered by criticism that he lacks a concrete political program. William R. Caspary makes the case for Dewey as a more discerning and challenging political theorist than this. Caspary draws from Dewey's extensive writings a concrete politics of participatory democracy, solving classic dilemmas confronting both democratic theorists and citizen activists. He compares Dewey's views with the full range of approaches in contemporary democratic theory and explores the underpinnings of Dewey's political theory by offering a thorough and innovative account of his philosophy of science, social science, and ethics. In Dewey's democratic theory, conflict is an inescapable condition of politics, according to Caspary, and is also an essential stimulus for the advancement of individuals and societies. Recognizing the centrality of conflict, Caspary claims, Dewey makes conflict resolution an overarching concept in his theory of democracy. Caspary argues that conflict resolution is central to Dewey's philosophy of ethics and of science. Caspary--a scholar with many years of experience as a social movement activist, ombudsperson, and mediator--traces this conflict resolution orientation throughout Dewey's writings. Caspary brings Dewey's abstract theories down to earth with examples from present-day social and political experiments, including progressive educational experiments, common-ground dialogues on abortion, the South African program for truth and reconciliation, and worker self-management cooperatives. These cases illustrate Dewey's linking of political action, social experimentation, and public discourse. They pin down specific meanings for Dewey's sometimes vague political maxims, and suggest workable programs. Throughout Caspary demonstrates the courage and vision of Dewey's unwavering commitment to participatory democracy. This book constitutes the thoroughly refereed proceedings of the Second International Workshop on Trustworthy Eternal Systems via Evolving Software, Data and Knowledge, EternalS, held in Montpellier, France, in August 2012 and co-located with the 20th European Conference on Artificial Intelligence (ECAI 2012). The 10 revised full papers presented were carefully reviewed and selected from various submissions. The papers are organized into three main sections: natural language processing (NLP) for software systems, machine learning for software systems, roadmap for future research. A learn-to-read about the seasons as shown by an apple tree. Using the Thomist notion of wisdom as a key for interpretation, Coelho traces the flowering of the universal viewpoint into a mature theological method ? one that holds out the hope of an effective transcultural mediation of meanings and values. The DEEPER project aims to see if artificial evolution can create entirely new technologies, such as transistor-less circuits for sophisticated technological applications. The project is likely to have high impact in basic science. Using artificial evolution to explore "bottom-up" may lead to devices with significant advantages in size/weight ratio, fault tolerance, radiation tolerance, and speed of response. The project objectives are as follows: (1) to build and test an intrinsic evolution platform (evolvable motherboard), (2) to investigate evolving circuits using radiation-damaged silicon, (3) to investigate evolving circuits/information processors in liquid crystal, and (4) to investigate other novel materials that are field configurable and that may support artificial intrinsic evolution. The authors note that, with the success of the apparent evolution in liquid crystals and disruption of moving institutions, they have not had the time to investigate radiation-damaged components and their behavior under evolution. Following this status report is a paper entitled "Evolution in materio: A Tone Discriminator in Liquid Crystal." The abstract for this paper reads as follows: Intrinsic evolution is often limited to using standard electronic components as the media for problem solving. It has been argued that because such components are human designed and intentionally have predictable responses, they may not be the optimal medium to use when trying to get a naturally inspired search technique to solve a problem. Evolution has been demonstrated as capable of exploiting the physical properties of material to form solutions. However, by giving evolution only conventional components, researchers may be limiting themselves to solving certain problems. Using liquid crystal as the evolution substrate, the authors demonstrate that it is possible to evolve systems, including a tone discriminator, in materio. (20 figures, 16 refs.). The classic Chinese novel *The Water Margin* (*Shuihu zhuan*) tells the story of a band of outlaws in twelfth-century China and their insurrection against the corrupt imperial court. Imported into Japan in the early seventeenth century, it became a ubiquitous source of inspiration for translations, adaptations, parodies, and illustrated woodblock prints. There is no work of Chinese fiction more important to both the development of early modern Japanese literature and the Japanese imagination of China than *The Water Margin*. In *The Japanese Discovery of Chinese Fiction*, William C. Hedberg investigates the reception of *The Water Margin* in a variety of early modern and modern Japanese contexts, from eighteenth-century Confucian scholarship and literary exegesis to early twentieth-century colonial ethnography. He examines the ways Japanese interest in Chinese texts contributed to new ideas about literary canons and national character. By constructing an account of Japanese literature through the lens of *The Water Margin*'s literary afterlives, Hedberg offers an alternative history of East Asian textual culture: one that focuses on the transregional dimensions of Japanese literary history and helps us rethink the definition and boundaries of Japanese literature itself. *Emergent Science* is essential reading for anyone involved in supporting scientific learning and development with young children aged between birth and 8. Drawing on theory, the book helps to develop the essential skills needed to understand and support science in this age range. The book is organised into three parts: development, contexts and pedagogy, exploring the underpinning theory alongside practical ideas to help trainees, teachers and childcare practitioners to create high-quality science experiences for the children they teach. The text includes guidance on developing professional, study and research skills to graduate and postgraduate level, as well as

all the information needed to develop scientific skills, attitudes, understanding and language through concrete, social experiences for young children. Features include: Reflective tasks-at three levels of professional development;- early career/student, developing career/teacher and later career/leader. Case studies that exemplify good practice and practical ideas. Tools for learning - explain how science professionals can develop their professional, study skills and research skills to Masters level This book constitutes the thoroughly refereed post-proceedings of the First International Workshop on Knowledge Discovery and Emergent Complexity in Bioinformatics, KDECB 2006, held in Ghent, Belgium, in May 2006, in connection with the 15th Belgium-Netherlands Conference on Machine Learning. The 12 revised full papers cover various topics in the areas of knowledge discovery and emergent complexity research in bioinformatics. For this book, the editors invited and called for contributions from indispensable research areas relevant to "chance discovery," which has been defined as the discovery of events significant for making a decision, and studied since 2000. From respective research areas as artificial intelligence, mathematics, cognitive science, medical science, risk management, methodologies for design and communication, the invited and selected authors in this book present their particular approaches to chance discovery. The chapters here show contributions to identifying rare or hidden events and explaining their significance, predicting future trends, communications for scenario development in marketing and design, identification effects and side-effects of medicines, etc. The methods presented in this book are based on the interaction of human, machine, and human's living environment, rather than based purely automated predictions of the future. This is a promising direction of computer-supported decision of human in a radically changing environment. Boucher's World, where every sentient being is endowed with psychic abilities. But, having these abilities hasn't been any help in getting them out of a Dome that covers their entire continent, effectively keeping them imprisoned. It has been this way since shortly after Earthlings joined another race, the Elwists, on the planet in the Epsilon Eridani star system a little over two thousand years ago. No one knows who put it there or why. One day, a preadult Human descendant of the original settlers, Jade Lowry, and her Cat partner, Tally, make a remarkable discovery: a door to the outside. Have a pest company worker and her cat partner found the key to freedom? Comprehensive Medicinal Chemistry III provides a contemporary and forward-looking critical analysis and summary of recent developments, emerging trends, and recently identified new areas where medicinal chemistry is having an impact. The discipline of medicinal chemistry continues to evolve as it adapts to new opportunities and strives to solve new challenges. These include drug targeting, biomolecular therapeutics, development of chemical biology tools, data collection and analysis, in silico models as predictors for biological properties, identification and validation of new targets, approaches to quantify target engagement, new methods for synthesis of drug candidates such as green chemistry, development of novel scaffolds for drug discovery, and the role of regulatory agencies in drug discovery. Reviews the strategies, technologies, principles, and applications of modern medicinal chemistry Provides a global and current perspective of today's drug discovery process and discusses the major therapeutic classes and targets Includes a unique collection of case studies and personal essays reviewing the discovery and development of key drugs A learn-to-read book about signs in the city. What factors affect creativity and the generation of creative images? What factors affect the ability to reinterpret those images? Research described in this book indicates that expectations constrain both of these attributes of creativity. Characteristics of the imagined pattern, such as cohesiveness or its psychological goodness, also affect image generation and reinterpretation. Other evidence indicates that images can be combined mentally to yield new, manipulable composites. Cognitive models encompass the research and extend it to fields as diverse as architecture, music, and problem solving. ?Using the domain of crisis management, Christian Reuter explores challenges and opportunities for technology design in emergent environments. He therefore empirically analyzes collaborative work in inter-organizational crisis – such as the police, fire departments, energy network operators and citizens – in order to identify collaboration practices that reveal work infrastructure limitations. He also designs, implements and evaluates novel concepts and ICT artifacts towards the support of emergent collaboration. Besides the discovery of potential organizational effects on the ability to deal with emergence he presents methodological implications for technology design. We study multiple-unit, laboratory experimental call markets in which orders are cleared by a single price at a scheduled "call." The markets are independent trading "days" with two calls each day preceded by a continuous and public order flow. Markets approach the competitive equilibrium over time. The price formation dynamics operate through the flow of bids and asks configured as the "jaws" of the order book with contract execution featuring elements of an underlying mathematical principle, the Newton-Raphson method for solving systems of equations. Both excess demand and its slope play a systematic role in call market price discovery. Learn all about honeybees in this amazing insect discovery book! This book is a spin-off of a by-invitation-only workshop on self-* properties in complex systems held in summer 2004 in Bertinoro, Italy. The workshop aimed to identify the conceptual and practical foundations for modeling, analyzing, and achieving self-* properties in distributed and networked systems. Based on the discussions at the workshop, papers were solicited from workshop participants and invited from leading researchers in the field. Besides presenting sound research results, the papers also present visionary statements, thought-provoking ideas, and exploratory results. The 27 carefully reviewed revised full papers, presented together with a motivating introduction and overview, are organized in topical sections on self-organization, self-awareness, self-awareness versus self-organization, supporting self-properties, and peer-to-peer algorithms. The present book takes the discovery that quantum-like behaviour is not solely reserved to atomic particles one step further. If electrons are modelled as vibrating droplets instead of the usually assumed point objects, and if the classical laws of nature are applied, then exactly the same behaviour as in quantum theory is found, quantitatively correct! The world of atoms is strange and quantum mechanics, the theory of this world, is almost magic. Or is it? Tiny droplets of oil bouncing round on a fluid surface can also mimic the world of quantum mechanics. For the layman - for whom the main part of this book is written - this is good news. If the everyday laws of nature can conspire to show up quantum-like phenomena, there is hope to form mental pictures how the atomic world works. The book is almost formula-free, and explains everything by using many sketches and diagrams. The mathematical derivations underlying the main text are kept separate in a -peer reviewed - appendix. The author, a retired professor of Flight Mechanics and Propulsion at the Delft University of Technology, chose to publish his findings in this mixed popular and scientific form, because he found that interested laymen more often than professional physicists feel the need to form visualisations of quantum phenomena. The book is a serious attempt to compile a science-based worldview or ideology. My Emergent God is divided into three parts. The first part is an ontology, the second deals with socioeconomic and political doctrines, and the third part is on futurology, that is, the future of technology, ideology, and the human race. Real-life photographs and non-fiction supportive text combine with the proven instructional strategies of guided reading to create a program that explores key science concepts as part of reading instruction. The Emergent Mind is the author's

personal story of self discovery, the creative potential existent in each of us, and the joyous freedom wholeness brings. Her memoir revelations are also about change that is sorely needed today. It is change that will only come by evolving our cultures to open systems, nurturing our young to live in harmony with our life-sustaining earth and with each other. It is a story merging the ancient wisdom of human values with science--from Flatland to Parallel Dimensions--applicable to our daily lives. A collection of readily reproducible bioinformatic methods to advance the drug discovery process from gene identification to protein modeling to the identification of specific drug candidates. The authors demonstrate these techniques, including microarray analysis, the analysis of genes as potential drug targets, virtual screening and in silico protein design, and cheminformatics, in a variety of practical situations. Because these technologies are still emergent, each chapter contains an extended introduction that explains the theory and application of the technology and techniques described. This book explores the different stages in the life cycle of the small firm, and ways to solve entrepreneurial dilemmas that the entrepreneur faces during and in-between these different stages of development. This book constitutes the thoroughly refereed post-conference proceedings of the Second International ICST Conference on Complex Sciences, COMPLEX 2012, held in Santa Fe, New Mexico, USA in December 2012. The 29 revised full papers presented were carefully reviewed and selected from various submissions. The papers cover aspects on foundations and analysis of complex systems, complex biological systems, complex social systems, complex engineering systems. "This book provides relevant theoretical frameworks and the latest empirical research finding to improve understanding of geospatial discovery methodologies and technologies, as well as techniques to design and deploy geospatial resources in Information Infrastructures"--Provided by publisher. This book is dedicated to Professor Selim G. Akl to honour his groundbreaking research achievements in computer science over four decades. The book is an intellectually stimulating excursion into emergent computing paradigms, architectures and implementations. World top experts in computer science, engineering and mathematics overview exciting and intriguing topics of musical rhythms generation algorithms, analyse the computational power of random walks, dispelling a myth of computational universality, computability and complexity at the microscopic level of synchronous computation, descriptive complexity of error detection, quantum cryptography, context-free parallel communicating grammar systems, fault tolerance of hypercubes, finite automata theory of bulk-synchronous parallel computing, dealing with silent data corruptions in high-performance computing, parallel sorting on graphics processing units, mining for functional dependencies in relational databases, cellular automata optimisation of wireless sensors networks, connectivity preserving network transformers, constrained resource networks, vague computing, parallel evolutionary optimisation, emergent behaviour in multi-agent systems, vehicular clouds, epigenetic drug discovery, dimensionality reduction for intrusion detection systems, physical maze solvers, computer chess, parallel algorithms to string alignment, detection of community structure. The book is a unique combination of vibrant essays which inspires scientists and engineers to exploit natural phenomena in designs of computing architectures of the future.

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