

# 11 Issue

## **Undercurrent Journal: Vol. 11, Issue 2 (Summer 2015) [COLOR]**

Undercurrent is the only student-run national undergraduate journal publishing scholarly essays and articles that explore the subject of international development. The journal is a refereed publication dedicated to providing a non-partisan, supportive, yet critical and competitive forum exclusively for undergraduate research, writing, and editing.

## **FAA Airworthiness Directive**

Indian Ocean studies, which once lagged behind studies of the Atlantic and the Pacific, is an important emerging academic field which has come into its own. In the next fifty years, the Indian Ocean Region will become very significant as a result of enormous demographic changes. What was the Ocean of the South is rapidly becoming the Ocean of the Centre, the Ocean of the Future. Curtin University, Western Australia, has a long and distinguished history of engagement with the Indian Ocean region and with Indian Ocean Studies, and its Australia-Asia-Pacific Institute of Curtin University continues to maintain a focus on the Indian Ocean -past, present and future. This book examines a number of themes emerging from its 2014 Conference entitled \"Indian Ocean Futures\"

## **A History of the Donaldson Family and Its Connections**

'A fascinating and challenging story' New York Review of Books 'This is an incredibly absorbing and insightful book about the most important scientific question of our age' Mark Miodownik, author of Stuff Matters 'The story of the quest to understand life's genesis is a universal one, in which everyone can find pleasure and fascination. By asking how life came to be, we are implicitly asking why we are here, whether life exists on other planets, and what it means to be alive. This book is the story of a group of fragile, flawed humans who chose to wrestle with these questions. By exploring the origin of life, we can catch a glimpse of the infinite.' How did life begin? Why are we here? These are some of the most profound questions we can ask. For almost a century, a small band of eccentric scientists has struggled to answer these questions and explain one of the greatest mysteries of all: how and why life began on Earth. There are many different proposals, and each idea has attracted passionate believers who promote it with an almost religious fervour, as well as detractors who reject it with equal passion. But the quest to unravel life's genesis is not just a story of big ideas. It is also a compelling human story, rich in personalities, conflicts, and surprising twists and turns. Along the way the journey takes in some of the greatest discoveries in modern biology, from evolution and cells to DNA and life's family tree. It is also a search whose end may finally be in sight. In *The Genesis Quest*, Michael Marshall shows how the quest to understand life's beginning is also a journey to discover the true nature of life, and by extension our place in the universe.

## **General Technical Report NE**

The world of developed economies looks at the problems of people with disabilities from a technical, social, psychological and informational perspective. Impacts in favour of people with disabilities are most often equated with the removal of barriers and integration. Nowadays, virtually every form of social and economic life should take in account inclusion and removal of barriers. Urban planning, the design of buildings, communication networks and the products, tools can be done from the perspective of removing barriers for people with disabilities. It is crucial to promote a way of thinking aimed at taking into account the needs of people with disabilities in the creation of all new civilizational solutions. Monograph “Ergonomics for People

with Disabilities: Design for Accessibility” presents interdisciplinary attitude to the issue of designing for people with disabilities. The aim of the monograph is to present the factors affecting life activation of people with disabilities (including “50+” and “mature” people) and the problems that people with disabilities face by the participation in social and professional life and the daily activities and how design for accessibility can help with solving those problems. Concepts presented in the first part are focused on designing of products supporting inclusion such as wheelchairs, orthopaedic seats, carrier vests and hand tools. This part consist of five chapters. Field of interest of second part of the monograph is how to design accessible socio-technical environment. The subject is presented in four chapters on two hospital case studies, backyard sensorimotor path case and integrated therapeutic environment case. Third part is focused on universal design with ICT solutions. It consist of the concepts and analysis of solutions supporting people with disabilities and elderly people presented in six chapters. Scope of the last part is human factor design for barriers reduction. In three chapters problems such deafness, dementia and professional activity of people with disabilities were presented. Monograph includes the wide perspective of engineers, designers, architects, psychologists, sociologists, vocational counsellors and medicals that can inspire to new look at design for accessibility.

Book Title: Ergonomics For People With Disabilities Book Subtitle: Design For Accessibility Scientific editors: Aleksandra Polak-Sopinska, Jan Królikowski Technical editor: Magdalena Wróbel-Lachowska Editors affiliations: Faculty of Management and Production Engineering, Lodz University of Technology, Poland Series Title: Advances in Production Management and Ergonomics Series ISSN: 2544-7610 Series Volume: 1e-ISBN: 978-3-11-061783-2 Edition Number: 1 Copyright: 2018 Publisher: De Gruyter Copyright Holder: Department of Production Management and Logistics, Faculty of Management and Production Engineering, Lodz University of Technology, Poland Number of Pages: 238 Department of Production Management and Logistics, Lodz University of Technology, Poland

## **Current Abstracts**

The wide gap between the existing security solutions and the actual practical deployment in smart manufacturing, smart home, and remote environments (with respect to wireless robotics) is one of the major reasons why we require novel strategies, mechanisms, architectures, and frameworks. Furthermore, it is also important to access and understand the different level of vulnerabilities and attack vectors in Wireless Sensor Network (WSN) and Wireless Robotics. This book includes an in-depth explanation of a secure and dependable Wireless Robotics (WR) architecture, to ensure confidentiality, authenticity, and availability. Features Blockchain technology for securing data at end/server side Emerging technologies/networking, like Cloud, Edge, Fog, etc., for communicating and storing data (securely). Various open issues, challenges faced in this era towards wireless robotics, including several future research directions for the future. Several real world’s case studies are included Chapters on ethical concerns and privacy laws, i.e., laws for service providers Security and privacy challenges in wireless sensor networks and wireless robotics The book is especially useful for academic researchers, undergraduate students, postgraduate students, and industry researchers and professionals.

## **Problems of Communism**

Innovations and Advances in Computer Sciences and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Innovations and Advances in Computer Sciences and Engineering includes selected papers form the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2008) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2008).

## **Agricultural Outlook**

This book constitutes the refereed proceedings of the 9th Asia-Pacific Network Operations and Management

Symposium, APNOMS 2006. The book presents 50 revised full papers and 25 revised short papers, organized in topical sections on management of ad hoc and sensor networks, network measurements and monitoring, mobility management, QoS management, management architectures and models, security management, E2E QoS and application management, management experience, NGN management, and IP-based network management.

## **Decisions**

Highlights the Progression of Meshing Technologies and Their Applications Finite Element Mesh Generation provides a concise and comprehensive guide to the application of finite element mesh generation over 2D domains, curved surfaces, and 3D space. Organised according to the geometry and dimension of the problem domains, it develops from the basic meshing algorithms to the most advanced schemes to deal with problems with specific requirements such as boundary conformity, adaptive and anisotropic elements, shape qualities, and mesh optimization. It sets out the fundamentals of popular techniques, including: Delaunay triangulation Advancing-front (ADF) approach Quadtree/Octree techniques Refinement and optimization-based strategies From the geometrical and the topological aspects and their associated operations and inter-relationships, each approach is vividly described and illustrated with examples. Beyond the algorithms, the book also explores the practice of using metric tensor and surface curvatures for generating anisotropic meshes on parametric space. It presents results from research including 3D anisotropic meshing, mesh generation over unbounded domains, meshing by means of intersection, re-meshing by Delaunay-ADF approach, mesh refinement and optimization, generation of hexahedral meshes, and large scale and parallel meshing, along with innovative unpublished meshing methods. The author provides illustrations of major meshing algorithms, pseudo codes, and programming codes in C++ or FORTRAN. Geared toward research centers, universities, and engineering companies, Finite Element Mesh Generation describes mesh generation methods and fundamental techniques, and also serves as a valuable reference for laymen and experts alike.

## **Indian Ocean Futures**

How did we first come to believe in a correspondence between writers' lives and their works? When did the person of the author--both as context and target of textual interpretation--come to matter so much to the way we read? This book traces the development of author centrism back to the scholarship of early Renaissance humanists. Working against allegoresis and other traditions of non-historicizing textual reception, they discovered the power of engaging ancient works through the speculative reconstruction of writers' personalities and artistic motives. To trace the multi-lingual and eventually cross-cultural rise of reading for the author, this book presents four case studies of resolutely experimental texts by and about writers of high ambition in their respective generations: Lorenzo Valla on the forger of the Donation of Constantine, Erasmus on Saint Jerome, the poet George Gascoigne on himself, and Fulke Greville on Sir Philip Sidney. An opening methodological chapter and exhortative conclusion frame these four studies with accounts of the central lexicon--character, intention, ethos, persona--and the range of genre evidence that contemporaries used to discern and articulate authorial character and purpose. Constellated throughout with examples from the works of major contemporaries including John Aubrey, John Hayward, Galileo, Machiavelli, and Shakespeare, this volume resurrects a vibrant culture of biographism continuous with modern popular practice and yet radically more nuanced in its strategic reliance on the explanatory power of probabilism and historical conjecture--the discursive middle ground now obscured from view by the post-Enlightenment binaries of truth and fiction, history and story, fact and fable.

## **The Genesis Quest**

Key account management as an alternative organizational form of marketing management became increasingly popular in many companies during the last years. In its beginning, key account management was particularly applied in the consumer packaged goods industry with respect to wholesalers as well as large department stores; for some time, key account management has also been applied time by suppliers in

industrial markets as well as by companies offering product-related services in order to serve their most important customers. Despite its practical relevance in marketing management, the implementation of key account management as well as its integration within the supplier's organization is hardly realized on an adequate economic evaluation. Similarly, key account management controlling of an already implemented key account management organization is also lacking. These organizational units are, once implemented, neither controlled nor evaluated concerning their economic performance. With respect to these rather surprising findings in marketing management practice the author develops a theory-based decision support model, which seems capable of overcoming the previously described deficits. Based on a comparative analysis, the efficiency of alternative key account management organizations is evaluated using criteria developed from transaction costs economics. This decision model enables companies to evaluate each organizational key account management alternative on the basis of transaction cost economizing effects. In addition, set-up costs which arise due to the implementation of the organizational unit are also included in the cost-benefit calculation.

## **New Releases**

**Brighton Baby: A Revolutionary Organic Approach to Having an Extraordinary Child - The Complete Guide to Preconception & Conception** is about helping couples achieve optimal health - mentally, physically, emotionally, and spiritually - before you conceive your future child. Author and perinatal expert, Roy Dittmann, OMD, MH takes couples on a journey that celebrates the power of love as the intangible "blueprint of life". Dr. Dittmann exposes the dangers of conceiving in our toxic world and focuses couples on how to prepare body, mind, and spirit for the moment of conception. Using integral wisdom, Dr. Dittmann helps couples go from 'overwhelm' to taking practical steps to realize their goals of having an extraordinary child. "Brighton Baby is about the art and science of gifting the best of who we are to our future children. It is about reducing human suffering by preventing subtle and overt birth defects before they occur. It is about transforming the context inside of which we conceive and birth children." - Roy Dittmann, OMD, MH, author Throughout the book, Dr. Dittmann turns the spotlight on the hidden dangers of: heavy metals and other toxins, genetically modified foods, pesticides, artificial sweeteners, rancid oils, antibiotics, processed foods, contaminated drinking water, electrosmog, and the pluses & minuses of vaccines - merging science and common sense to compel couples to take action today to prevent birth defects in their future child. Brighton Baby is a call to action for couples to commit now to consciously preparing for your future child together.

## **Obscene Matter Sent Through the Mail**

This book provides an overview of the Second Council Directive 77/91/EEC of 13 December 1976 (also known as the Capital Directive) and its implementing rules in each Member State of the European Union and the European Economic Area. It provides companies and advisors with useful insights regarding articles of association and related documents, the incorporation and capital requirements of European companies with limited liability and the rules applicable to the acquisition and pledge of their own shares, the cross-participations, the financial assistance and the distribution of profits. A general report on the Capital Directive is followed by a discussion of the implementation of the rules laid down in the Directive in the national laws of each Member State, each in accordance with a common format and contributed by a practitioner from that State.

## **Occupational Outlook Quarterly**

**Experiments in Freedom** examines ways in which identities have been represented in recent South African play texts published in English. It begins by exploring descriptions of identity from various philosophical, psychological and anthropological perspectives and elaborates ways in which drama is uniquely suited to represent—as well as to effect—transformations of identity. In exploring the fraught terrain of identity studies, the book examines a selection of play texts in terms of five different discourse of identity—gender,

nationalism, ethnicity, syncretism and race. Instead of building a sustained thesis throughout his text, Krueger writes in short bursts about a multiplicity of topics, extending his explorations rhizomatically into the crevices of a new South African society loath to relinquish its stranglehold on the politics of identity.

## **Ergonomics For People With Disabilities**

Intelligent systems and technologies are increasingly finding their ways in our daily lives. This book presents a sample of recent research results from key researchers. The contributions include: Introduction to intelligent systems; A Fuzzy Density Analysis of Subgroups by means of DNA Oligonucleotides; Evolution of Cooperating Classification Rules with an Archiving Strategy to Underpin Collaboration; Designing Agents with Dynamic Capability; Localized versus Locality Preserving Representation Methods in Face Recognition Tasks; Invariance Properties of Recurrent Neural Networks; Solving Bioinformatics Problems by Soft Computing Techniques; Transforming an Interactive Expert Code into a Stateful Service and a Multicore-enabled System; Ro-WordNet with Paradigmatic Morphology and Subjectivity Mark-up; Special Cases of Relative Object Qualification using the AMONG Operator; Effective Speaker Tracking Strategies for Multi-party Human-Computer Dialogue; The Fuzzy Interpolative Control for Passive Greenhouses; GPS safety system for airplanes; 3D Collaborative Interfaces for E-learning; Open Projects in Contemporary E-Learning; Software Platform for Archaeological Patrimony Inventory and Management. The book is directed to the graduate students, researchers, professors and the practitioner of intelligent systems.

## **Code of Federal Regulations**

Explore the cutting-edge field of DNA origami and its transformative impact on Nanobiotechnology with this comprehensive guide. In DNA Origami, Fouad Sabry brings you closer to the future of molecular design, nanorobotics, and medical advancements. This book is an indispensable resource for professionals, researchers, undergraduate and graduate students, and enthusiasts in nanotechnology and nanobiotechnology. Chapters Brief Overview: 1: DNA origami: Introduction to the core concept of folding DNA to create precise, nanometerscale shapes for nanotechnological applications. 2: Nanomedicine: Explore how DNA origami is revolutionizing targeted drug delivery and diagnostic methods in medicine. 3: Nanoruler: Learn about the use of DNA-based structures as measuring devices for precise molecular interactions. 4: Nanorobotics: Discover how DNA origami forms the backbone of next-generation molecular robots with the ability to execute specific tasks. 5: Holliday junction: Delve into the significance of this DNA structure in the context of molecular recognition and self-assembly in nanobiotechnology. 6: RNA origami: Understand the unique aspects of RNA-based origami and its applications in biotechnology and gene therapy. 7: Spherical nucleic acid: This chapter unveils the potential of spherical nucleic acids in drug delivery systems and biomolecular interactions. 8: Nanochemistry: Learn the basics of nanochemistry, bridging the gap between chemistry and nanotechnology in biological systems. 9: DNA nanotechnology: Discover the role of DNA in creating molecular machines and other functional devices with specific purposes in biotechnological fields. 10: TectoRNA: Investigate the role of TectoRNA in building complex RNA nanostructures for biotechnological applications. 11: Nadrian Seeman: Explore the groundbreaking work of Nadrian Seeman, the pioneer of DNA nanotechnology, and his contribution to the field. 12: Self-assembling peptide: Examine the potential of self-assembling peptides in creating synthetic biomaterials and their role in tissue engineering. 13: Nanoscale plasmonic motor: This chapter uncovers the exciting applications of plasmonic motors at the nanoscale in molecular and cellular mechanics. 14: Niveen Khashab: Learn about Niveen Khashab's pioneering work in designing multifunctional nanostructures for drug delivery. 15: Molecular self-assembly: Explore the mechanisms of molecular self-assembly and how they contribute to the creation of nanoscale devices. 16: Nanobiotechnology: Dive into the interdisciplinary field of nanobiotechnology, where nanotechnology meets biology to solve complex scientific problems. 17: Biointerface: Discover the role of biointerfaces in the development of bionanomaterials for medical applications. 18: Nanotechnology: A comprehensive overview of the field of nanotechnology, its principles, and its applications in biotechnological research. 19: Nucleic acid design: Learn the principles behind the design of nucleic acids for creating programmable molecular systems. 20: Peptide nucleic acid: This chapter delves into the unique

properties of peptide nucleic acids and their potential applications in genetic engineering and diagnostics. 21: Intracellular delivery: The final chapter explores the mechanisms of intracellular delivery of nanostructures and their impact on gene therapy and molecular medicine. By reading this book, you will not only deepen your understanding of DNA origami and its vast applications but also appreciate the broader significance of Nanobiotechnology in shaping the future of science and medicine. Whether you are a professional, a student, or an enthusiast, this book is an essential guide to the cutting edge of biotechnology.

## **Assembly Bill**

These proceedings represent the work of contributors to the 17th International Conference on Intellectual Capital, Knowledge Management & Organisational Learning (ICICKM 2020), hosted by ACI and the University of Toronto, Canada on 15-16 October 2020. The Conference Chairs are Dr. Anthony Wensley, from the University of Toronto and Dr. Max Evans, from McGill University. The Programme Chair is Dr. Ilja Frissen from McGill University.

## **Security and Privacy-Preserving Techniques in Wireless Robotics**

First published in 1989. Political science in Austria is a relatively young discipline. It began to gradually establish itself in the 60's and only as recently as 1971 was it anchored in the curriculum of Austrian universities as a separate field of study. With the present book in English the editors hope to stimulate the interest of international social scientists in Austria, to overcome language barriers, and to make the topical problems and developments of Austrian democracy accessible to an international reading public. The book is intended to reflect the current state of a discipline-political science. However, it is also to be a contribution to the further development of this discipline. It should stimulate further, intensive and critical occupation with the theme "parties and the party system in Austria."

## **Agriculture Economics Reports**

Contains a diverse compilation of major speeches, congressional testimony, policy statements, fact sheets, and other foreign policy information from the State Dept.

## **Investigation of Illegal Or Improper Activities in Connection with 1996 Federal Election Campaigns**

The Onion, with its unique brand of deadpan satirical humor, has become a familiar part of the American scene. The newspaper has a readership of over a million, and reaches millions more with its spin-off books and Onion News Network. The Onion has shown us that standard ways of thinking about the news have their grotesque and silly side, and this invites philosophical examination. Twenty-one philosophers were commissioned to provide witty philosophical perspectives on just what makes the Onion so truthful and insightful. Former Governor Sarah Palin reported: "I just couldn't put it down. The Onion and Philosophy is the most exciting book I've read since Principia Mathematica." Are the Onion writers truly cynical, or just cynically faking it? Does the Onion really have a serious point of view on religion? On sex? On politics? Who cares what Area Man thinks? If everyone's so dumb, how come so many Onion readers keep on laughing at how dumb they are?

## **Innovations and Advances in Computer Sciences and Engineering**

Biology Bulletin of the Academy of Sciences of the USSR.

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