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# Engineering Science 2012 Memo N

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Demystifying eResearch Springer Nature  
With the current emphasis on sustainable construction there is now a move towards using non-hazardous waste materials and by-products, as binders in making self-compacting concrete. *Alternative Cementitious Materials for Self-Compacting Concrete* provides a detailed review on the various properties of self-compacting concrete (SCC) and how they are

affected by the use, of by-products and waste materials in concrete production. The book provides a fair comparison on the application and use of various types of materials in SCC. It also provides the latest data and detailed information on modeling and soft computing techniques for estimation of the various properties of SCC as well as detailed investigations on microstructural characterization. The book will be a valuable reference resource for materials scientists, and civil and structural engineers working in construction materials and self-compacting concrete, as well as for those working in the cement production and non-hazard waste industries. - Includes detailed information on modeling and computational techniques for

estimating SCC properties - Provides comprehensive information on the use of waste materials and by-products in self-compacting concrete - Covers comprehensive information on the different properties of SCC  
Advances in Computers Unhalu Press  
eResearch presents new challenges in managing data. This book explains to librarians and other information specialists what eResearch is, how it impacts library services and collections, and how to contribute to eResearch activities at their parent

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institutions. Today's librarians need to be technology-savvy information experts who understand how to manage datasets. *Demystifying eResearch: A Primer for Librarians* prepares librarians for careers that involve eResearch, clearly defining what it is and how it impacts library services and collections, explaining key terms and concepts, and explaining the importance of the field. You will come to understand exactly how the use of networked computing technologies enhances and supports collaboration and innovative methods particularly in scientific research, learn about eResearch library initiatives and best practices, and recognize the professional development opportunities that eResearch offers. This book takes the broad approach to the complex topic of eResearch and how it pertains to the library community, providing an

introduction that will be accessible to readers without a background in electronic research. The author presents a conceptual overview of eResearch with real-world examples of electronic research activities to quickly increase your familiarity with eResearch and awareness of the current state of eResearch librarianship.

Big Data, Cloud Computing and IoT  
Academic Press

Prosiding ini memuat sejumlah abstrak dan makalah yang disajikan dalam Celebes International Conference on Diversity of Wallacea ' s Line (CICDWL 2015). Mengusung tema "Sustainable Management of Geological, Biological, and Cultural Diversities of Wallacea's Line toward A Millennium Era" seminar ini diselenggarakan di Kendari pada 8 – 10 Mei 2015.

IoT CRC Press

This book presents the proceedings of the 2018 International Conference on Security with Intelligent Computing and Big-data Services (SICBS 2018). With the

proliferation of security with intelligent computing and big-data services, the issues of information security, big data, intelligent computing, blockchain technology, and network security have attracted a growing number of researchers. Discussing topics in areas including blockchain technology and applications; multimedia security; information processing; network, cloud and IoT security; cryptography and cryptosystems; as well as learning and intelligent computing and information hiding, the book provides a platform for researchers, engineers, academics and industrial professionals from around the globe to present their work in security-related areas. It not only introduces novel and interesting ideas, but also stimulates discussions and inspires new ideas.

Security with Intelligent Computing and Big-data Services Springer

Computational Intelligence techniques have been widely explored in various domains including forensics. Analysis in forensic encompasses the study of pattern analysis that answer the question of interest in security, medical, legal, genetic studies and etc. However, forensic analysis is usually

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performed through experiments in lab which is expensive both in cost and time. Therefore, this book seeks to explore the progress and advancement of computational intelligence technique in different focus areas of forensic studies. This aims to build stronger connection between computer scientists and forensic field experts. This book, *Computational Intelligence in Digital Forensics: Forensic Investigation and Applications*, is the first volume in the Intelligent Systems Reference Library series. The book presents original research results and innovative applications of computational intelligence in digital forensics. This edited volume contains seventeen chapters and presents the latest state-of-the-art advancement of *Computational Intelligence in Digital Forensics*; in both theoretical and application papers related to novel discovery in intelligent forensics. The chapters are further organized into three sections: (1) Introduction, (2) Forensic Discovery and Investigation, which discusses the computational intelligence technologies employed in Digital Forensic, and (3) Intelligent Forensic Science

Applications, which encompasses the applications of computational intelligence in Digital Forensic, such as human anthropology, human biometrics, human by products, drugs, and electronic devices. **Beyond the Code** Springer  
For many civilian, security, and military applications, distributed and networked coordination offers a more promising alternative to centralized command and control in terms of scalability, flexibility, and robustness. It also introduces its own challenges. *Distributed Networks: Intelligence, Security, and Applications* brings together scientific research in distributed network intelligence, security, and novel applications. The book presents recent trends and advances in the theory and applications of network intelligence and helps you understand how to successfully incorporate them into distributed systems and services. Featuring contributions by leading scholars and experts from around the world, this collection covers: Approaches for distributed network intelligence Distributed models for distributed enterprises, including forecasting and performance measurement models Security applications for distributed enterprises, including intrusion tackling and peer-to-peer traffic detection Future wireless networking scenarios, including the use of

software sensors instead of hardware sensors Emerging enterprise applications and trends such as the smartOR standard and innovative concepts for human-machine interaction in the operating room Several chapters use a tutorial style to emphasize the development process behind complex distributed networked systems and services, which highlights the difficulties of knowledge engineering of such systems. Delving into novel concepts, theories, and advanced technologies, this book offers inspiration for further research and development in distributed computing and networking, especially related to security solutions for distributed environments. [Cotton Science and Processing Technology](#) Springer  
This book inclusively and systematically presents the fundamental methods, models and techniques of practical application of grey data analysis, bringing together the authors' many years of theoretical exploration, real-life application, and teaching. It also reflects the majority of recent theoretical and applied advances in the theory achieved by scholars from across the world, providing readers a vivid overall picture of this new theory and its pioneering research activities. The book

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includes 12 chapters, covering the introduction to grey systems, a novel framework of grey system theory, grey numbers and their operations, sequence operators and grey data mining, grey incidence analysis models, grey clustering evaluation models, series of GM models, combined grey models, techniques for grey systems forecasting, grey models for decision-making, techniques for grey control, etc. It also includes a software package that allows practitioners to conveniently and practically employ the theory and methods presented in this book. All methods and models presented here were chosen for their practical applicability and have been widely employed in various research works. I still remember 1983, when I first participated in a course on Grey System Theory. The mimeographed teaching materials had a blue cover and were presented as a book. It was like finding a treasure: This fascinating book really inspired me as a young intellectual going through a period of confusion and lack of academic direction. It shone with pearls of wisdom and offered a beacon in the mist for a man trying to find his way in

academic research. This book became the guiding light in my life journey, inspiring me to forge an indissoluble bond with Grey System Theory. —Sifeng Liu

**HCTL Open Science and Technology Letters (STL)** Springer Nature

This book summarizes all different fields of cotton fiber, including genetics, fiber chemistry, soft materials, textile, and fashion engineering. It also contains some new applications such as biomaterials, nanocoated smart fabrics, and functional textiles. Moreover, the significant improvement recently in gene modification and gene technology is introduced. This book discusses all these aspects in a more straightforward way, and new illustrations will help readers to understand the contents. It is intended for undergraduate and graduate students who are interested in cotton science and processing technologies, researchers investigating the updated applications of cotton in various fields as well as industrialists who want to have a quick review of the cotton and its different stages.

Euro-Par 2013: Parallel Processing Workshops CRC Press

For over 80 years, the National Society of Professional Engineers (NSPE) has been a

leader in the promotion of ethical practice within the field of engineering. One of the Society's greatest contributions is the formation and adoption of the NSPE Code of Ethics. But the code, with its six "Fundamental Canons," is only truly instructive if engineers can bridge the gap between principles and action. Here there is no substitute for personal reflection on the ethical and philosophical issues that underlie the code. If done well, such reflection provides an indispensable basis for moral problem solving. Beyond the Code: A Philosophical Guide to Engineering Ethics is designed to complement the NSPE Code of Ethics by helping readers "go beyond" in their understanding of the philosophical issues bound up in the code. Each chapter addresses one of the Fundamental Canons of the NSPE code, and provides a philosophical analysis of the various parts of each canon by employing contemporary and classical texts. This unique approach to engineering ethics guides students and professionals in their readings of the appended selections to refine their understanding of the code in order to apply

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it to the practical challenges of today's engineers. Key Features: Is the first introduction to engineering ethics that helps students understand and apply the NSPE Code of Ethics to engineering practice Includes a Preface from Arthur E. Schwartz, NSPE Deputy Executive Director and General Counsel, and NAFE Executive Director As a hybrid text, includes primary philosophical texts with extensive introductions and guided reading questions from the book's three authors Offers case studies from the NSPE Board of Ethical Review, allowing students to see a direct connection between the issues discussed in the text and real-world engineering practice Includes the following pedagogical aids: "Key Terms and Concepts" for each chapter "Preparing to Read" sections before each primary source reading "Guided Reading Questions" after each primary source reading "Going Beyond—Our Questions for a Deep Dive" after each case study.

**Spectrophotometric Determination of Nickel and Cobalt** CRC Press

Regenerative therapy has rapidly developed as one of the most promising treatments for patients suffering from severe heart failure.

Autologous bone marrow-derived cells and cardiac stem cells have been clinically applied for cell injection therapy for heart failure. As a next-generation therapy, tissue-engineered myocardial-patch transplantation h

*Advances in Carbon Management Technologies* Springer

If the detrimental impacts of human-induced climate change continue to mount, technologies for geoengineering our climate – i.e. deliberate modifying of the Earth's climate system at a large scale – are likely to receive ever greater attention from countries and societies worldwide.

Geoengineering technologies could have profound ramifications for our societies, and yet agreeing on an international governance framework in which even serious research into these planetary-altering technologies can take place presents an immense international political challenge. In this important book, a diverse collection of internationally respected scientists, philosophers, legal scholars, policymakers, and civil society representatives examine and reflect upon the global geoengineering debate they have

helped shape. Opening with essays examining the historic origins of contemporary geoengineering ideas, the book goes on to explore varying perspectives from across the first decade of this global discourse since 2006. These essays methodically cover: the practical and ethical dilemmas geoengineering poses; the evolving geoengineering research agenda; the challenges geoengineering technologies present to current international legal and political frameworks; and differing perceptions of geoengineering from around the world. The book concludes with a series of forward looking essays, some drawing lessons from precedents for governing other global issues, others proposing how geoengineering technologies might be governed if/as they begin to emerge from the lab into the real world. This book is an indispensable resource for scientists, activists, policymakers, and political figures aiming to engage in the emerging debate about geoengineering our climate.

*Computational Intelligence in Digital Forensics: Forensic Investigation and Applications* Routledge

To mitigate climate change and to reduce

the emissions of greenhouse gases the interest in the utilization of renewable energies has increased drastically in the recent years. Due to the broad availability and its negative carbon emissions biomass is an attractive renewable energy resource. By applying the biomass chemical looping gasification technology the biomass can be used for the generation of electricity or the production of syngas as feedstock for synthetic fuels such as hydrogen and methanol. To promote the progress of this technology, a novel two-stage design for the gasification reactor is proposed in this work aiming to reduce the undesired tar content in the produced syngas, while maintaining a high syngas yield. To investigate the performance of this design, a reaction model was developed using the so-called multiphase particle-in-cell (MP-PIC) method. Furthermore, optimization recommendations for biomass chemical looping processes in general were derived to adjust the syngas composition and to increase the syngas yield.

*Proceedings of 2nd International Conference on Micro-Electronics, Electromagnetics and Telecommunications* Woodhead Publishing

The volume delivers a wealth of effective methods to deal with various types of uncertainty inherently existing in human-centric decision problems. It elaborates on comprehensive decision frameworks to handle different decision scenarios, which help use effectively the explicit and tacit knowledge and intuition, model perceptions and preferences in a more human-oriented style. The book presents original approaches and delivers new results on fundamentals and applications related to human-centered decision making approaches to business, economics and social systems. Individual chapters cover multi-criteria (multiattribute) decision making, decision making with prospect theory, decision making with incomplete probabilistic information, granular models of decision making and decision making realized with the use of non-additive measures. New emerging decision theories being presented as along with a wide spectrum of ongoing research make the book valuable to all interested in the field of advanced decision-making. The volume, self-contained in its nature, offers a systematic exposure to the concepts, design methodologies, and detailed algorithms. A prudent balance between the theoretical studies and applications makes the material suitable for researchers and graduate students in information, computer sciences, psychology, cognitive science, economics, system engineering, operation research and management science, risk management, public and social policy.

**Information and Software Technologies**

CRC Press

Advances in Computers carries on a tradition of excellence, presenting detailed coverage of innovations in computer hardware, software, theory, design, and applications. The book provides contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles typically allow. The articles included in this book will become standard references, with lasting value in this rapidly expanding field. - Presents detailed coverage of recent innovations in computer hardware, software, theory, design, and applications - Includes in-depth surveys and tutorials on new computer technology pertaining to computing: combinatorial testing, constraint-based testing, and black-box testing - Written by well-known authors and researchers in the field - Includes extensive bibliographies with most chapters - Presents volumes devoted to single themes or subfields of computer science

*Alternative Cementitious Materials for Self-Compacting Concrete* CRC Press

This edited book aims to provide a collection of scientific evidence on gender issues in the construction industry that contributes to discussions on equality, gender diversity, and inclusion in the built

environment; it also provides baseline data for policy design and future research on women in the built environment. Presenting research findings from Africa, India, and Australia, the aims of this book are broad and it begins with an assessment of the gender-based challenges in the construction sector from the perspective of two generations of women. It goes on to discuss the issues affecting the recruitment and career progression of women in construction and also to proffer solutions to the low turnout of women in the construction industry. Further chapters cover issues on the retention and persistence of women in the sector despite the perceived gender-rooted challenges. Research into female leadership in the construction industry is also presented in this book with specific focus on the management of construction sites, quantity surveying practice, and digital leadership. This book ends with a discussion on the impact of gender consideration on the sustainability of construction businesses, accessibility of housing finance, and infrastructure provisions such as markets. The research in this book is key reading for

scholars of construction management, gender studies, and DEI and the workplace. **Geoengineering our Climate?** Springer  
**Multiphase Particulate Systems in Turbulent Flows: Fluid-Liquid and Solid-Liquid Dispersions** provides methods necessary to analyze complex particulate systems and related phenomena including physical, chemical and mathematical description of fundamental processes influencing crystal size and shape, suspension rheology, interfacial area of drops and bubbles in extractors and bubble columns. Examples of mathematical model formulation for different processes taking place in such systems is shown. Discussing connections between turbulent mixing mechanisms and precipitation, it discusses influence of fine-scale structure of turbulence, including its intermittent character, on breakage of drops, bubbles, cells, plant cell aggregates. An important aspect of the mathematical modeling presented in the book is multi-fractal, taking into account the influence of internal intermittency on different phenomena. Key Features Provides detailed descriptions of dispersion processes in turbulent flow,

interactions between dispersed entities, and continuous phase in a single volume  
Includes simulation models and validation experiments for liquid-liquid, gas-liquid, and solid-liquid dispersions in turbulent flows  
Helps reader learn formulation of mathematical models of breakage or aggregation processes using multifractal theory  
Explains how to solve different forms of population balance equations  
Presents a combination of theoretical and engineering approaches to particulate systems along with discussion of related diversity, with exercises and case studies  
Application of the MP-PIC Method for Modelling a Novel Plant Design for Biomass Chemical Looping Gasification Walter de Gruyter GmbH & Co KG  
HCTL Open Science and Technology Letters (HCTL Open STL) is an international, open-access, peer-reviewed journal devoted to various disciplines of Science and Technology published (bi-monthly) by HCTL Open Publications Solutions and Hybrid Computing Technology Labs, India. - Get more information at: <http://stl.hctl.org/>  
*ICIME 2013 Proceedings of the 4th International Conference on IS Management and Evaluation* Taylor & Francis

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These are the proceedings of the 2nd International Conference on Engineering Sciences and Technologies (ESaT 2016), held from 29th of June until the 1st of July 2016 in the scenic High Tatras Mountains, Tatranské Matliare, Slovak Republic. After the successful implementation and excellent feedback of the first international conference ESaT 2015, ESaT 2016 was organized under the auspices of the Faculty of Civil Engineering, Technical University of Košice, Slovak Republic in collaboration with the University of Miskolc, Hungary. The conference focused on a wide spectrum of topics and subject areas in civil engineering sciences. The proceedings bringing new and original advances and trends in various fields of engineering sciences and technologies that accost a wide range of academics, scientists, researchers and professionals from universities and practice. The authors of the articles originate from different countries around the world guaranteeing the importance, topicality, quality and level of presented results.

**Advances and Trends in Engineering Sciences and Technologies II** Trans Tech Publications Ltd

The commodification of science—often identified with commercialization, or the selling of expertise and research results and the “capitalization of knowledge” in academia and beyond—has been investigated as a threat to the autonomy of science and academic culture and criticized for undermining the social responsibility of modern science. In *From Commodification to the Common Good*, Hans Radder revisits the commodification of the sciences from a philosophical perspective to focus instead on a potential alternative, the notion of public-interest science. Scientific knowledge, he argues, constitutes a common good only if it serves those affected by the issues at stake, irrespective of commercial gain. Scrutinizing the theory and practices of scientific and technological patenting, Radder challenges the legitimacy of commercial monopolies and the private appropriation and exploitation of research results. His book invites us to reevaluate established laws and to question doctrines and practices that may impede or even prohibit scientific research and social progress so that we might achieve real and significant transformations in service of the common good.

[Human-Centric Decision-Making Models for Social Sciences](#) Springer

The book is a collection of high-quality peer-reviewed research papers presented in the first International Conference on Signal, Networks, Computing, and Systems (ICSNCS 2016) held at Jawaharlal Nehru University, New Delhi, India during February 25–27, 2016. The book

is organized in to two volumes and primarily focuses on theory and applications in the broad areas of communication technology, computer science and information security. The book aims to bring together the latest scientific research works of academic scientists, professors, research scholars and students in the areas of signal, networks, computing and systems detailing the practical challenges encountered and the solutions adopted.