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We presents the 32st volume of the International Journal of Engineering Research in Africa which contains articles describing the results of engineering research and solutions in the fields of the applied mechanics, research of materials and processing technologies in the mechanical engineering, construction materials, equipment design, technological processes in the chemical production, environmental engineering and

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engineering management. The articles will be useful for the professionals concerned with mechanical engineering, materials science, chemical engineering, engineering management as well as for academic teachers and students majoring in these fields of engineering science.

We are glad to present our readers with the 40th volume of International Journal of Engineering Research in Africa. This volume contains articles describing the research results in the fields of materials science, mechanical engineering, power distribution and power control, construction materials and technologies, technological

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processes in the wastewater treatment and industrial engineering. The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science. Composites, Metal Matrix Composite, Concrete, Building Materials, Mineral Waste, Seismic Motion, Wastewater Treatment, Vortex Condenser, Atmospheric Moisture, Power Engineering, Power Control, Industrial Engineering, Product Quality, Fuzzy Control, Intergrated Planning, Lean Manufacture Materials Science. We are glad to present to our readers the 37th volume of International Journal of Engineering

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Research in Africa. This volume contains articles describing the research results in the fields of materials science, mechanical engineering, power distribution, construction materials and technologies, technological processes in the chemical production and environmental engineering, network engineering and supply chain. The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science. International Journal of Engineering Research in Africa Vol. 61 International Journal of Engineering Research in

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Africa Vol. 33

International Journal of Engineering Research in Africa Vol. 11

Numerical Modelling

This easy-to-use pocket guide, compiled from the sixth edition of the "Publication Manual of the American Psychological Association," provides complete guidance on the rules of style that are critical for clear communication.

The increasing demand for environmentally friendly materials and the need for cheaper fibres points the search in the direction of natural products such as bark, leaves, scales or shells. The aim of this book is

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to provide a forum to review the recent advances in the area of plant and animal-based composites and identify possible trends for further developments. Recently, artificial intelligence (AI), the internet of things (IoT), and cognitive technologies have successfully been applied to various research domains, including computer vision, natural language processing, voice recognition, and more. In addition, AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications. On the other hand, network design and optimization for AI applications addresses a complementary topic, namely the support of AI-based systems through

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novel networking techniques, including new architectures, as well as performance models for IoT systems. IoT has paved the way to a plethora of new application domains, at the same time posing several challenges as a multitude of devices, protocols, communication channels, architectures, and middleware exist. Big data generated by these devices calls for advanced learning and data mining techniques to effectively understand, learn, and reason with this volume of information, such as cognitive technologies. Cognitive technologies play a major role in developing successful cognitive systems which mimic “cognitive” functions associated with human intelligence, such as “learning” and “problem

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solving.” Thus, there is a continuing demand for recent research in these two linked fields. The Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies discusses the latest innovations and applications of AI, IoT, and cognitive-based smart systems. The chapters cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation, public policies, technologies and intellectual capital, innovation systems, competition and strategies, marketing and growth capability, and governance and relegation models. These applications span areas such as healthcare, security and privacy, industrial systems,

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multidisciplinary sciences, and more. This book is ideal for technologists, IT specialists, policymakers, government officials, academics, students, and practitioners interested in the experiences of innovations and applications of AI, IoT, and cognitive technologies.

Academic Publications and Citations

Design based Research

International Journal of Engineering Research in Africa
Vol. 57

International Journal of Applied Management Sciences and Engineering (IJAMSE).

The 49th volume of "International Journal of Engineering Research in Africa" contains peer-reviewed manuscripts

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reflecting the research results in the fields of materials science, applied mechanics and mechanical engineering. Such issues as sensitivity analysis, renewable energy, pressure gradient, multiphase flow, power quality are raised in the volume. The presented scientific articles can be appreciated by the majority of engineers, academic teachers and students majoring in the fields of engineering science.

For your attention is presented the 23rd volume of International Journal of Engineering Research in Africa. In this issue collected manuscripts which describe the results of research and engineering decisions in many branches of engineering knowledge and practice such as materials and processing technologies in mechanical engineering, construction and in

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architecture; design and research of machines and mechanisms; modern methods and algorithms of optimization and data mining and latest researches in area of organization of manufacture. We hope this volume will be useful for a wide audience of readers, from students to practicing engineers. In the 61st volume of "International Journal of Engineering Research in Africa" are included the peer-reviewed manuscripts reflecting the research results in the fields of structural metals and composite materials, technologies of materials processing and synthesis, biomass gasification technology and numerical analysis processes of natural convection in the porous medium. Readers will also be interested in investigations in radio electronics, wind energy and energy management, building materials and

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geotechnics. The presented scientific articles will be appreciated by many engineers and technologists from the industrial sector, as well as academics and students majoring in engineering science.

Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies

International Journal of Energy Optimization and Engineering (IJEEO).

International Journal of Engineering Research in Africa Vol. 35

International Journal of Engineering Research in Africa

This periodical edition includes peer-reviewed papers based on results of scientific research and engineering solutions

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in different areas of modern engineering science.

We are glad to present the 34th volume of International Journal of Engineering Research in Africa to our readers. This volume contains articles describing the research results in the fields of materials science in the mechanical engineering, construction materials, technological processes in the chemical production, power distribution, communication engineering and engineering management. The articles will be useful for many engineers as well as for academic teachers and students majoring in these

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fields of engineering science.

In this volume of journal "International Journal of Engineering Research in Africa" articles which describe the results of engineering researches and decisions in the fields of structural materials, building materials and construction technologies, applied dynamics of fluid and flow, power engineering, transportation and engineering management of modern production are collected. Published articles will be useful for professionals from field of mechanical engineering, chemical engineering, engineering management and for students and

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academic teachers of the related specialties.
International Journal of Surface Engineering
and Interdisciplinary Materials Science
(IJSEIMS).

My Life and Work

International Journal of Engineering Research
in Africa Vol. 1

Emerging Research in Computing, Information,
Communication and Applications

The 39th volume of International
Journal of Engineering Research in
Africa contains articles describing the
research results in the fields of

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materials science, mechanical engineering, power engineering, construction materials and technologies, technological processes in the chemical production, planning and scheduling of production system. The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science. This book demonstrates applications and case studies performed by experts for

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professionals and students in the field of technology, engineering, materials, decision making management and other industries in which mathematical modelling plays a role. Each chapter discusses an example and these are ranging from well-known standards to novelty applications. Models are developed and analysed in details, authors carefully consider the procedure for constructing a mathematical replacement of phenomenon

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under consideration. For most of the cases this leads to the partial differential equations, for the solution of which numerical methods are necessary to use. The term Model is mainly understood as an ensemble of equations which describe the variables and interrelations of a physical system or process. Developments in computer technology and related software have provided numerous tools of increasing power for specialists in mathematical

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modelling. One finds a variety of these used to obtain the numerical results of the book.

In the current volume of journal "International Journal of Engineering Research in Africa" are collected papers by results of scientific and engineering researches from the many branches of applied sciences, starting from materials science and finishing to the logistics and management of the modern industrial manufacture. This

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collection will be useful and interesting for a wide range of engineers, researchers and students.

Issues in Engineering Research and Application: 2012 Edition

ERCICA 2016

Issues in Engineering Research and Application: 2013 Edition

International Journal of Engineering Research in Africa Vol. 40

This journal volume is available electronically and in print. The online version is available online at

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<http://www.scientific.net/jera>.

We are glad to present the 35th volume of International Journal of Engineering Research in Africa. This volume contains articles describing the research results in the fields of materials science in the mechanical engineering, construction materials, technological processes in the chemical production, power distribution and engineering management. The articles will be useful for many engineers as well as for academic teachers and students majoring in these fields of engineering science. Applied Mechanics, Structure Materials, Materials Processing, Building Materials, Construction Technologies, PID Control, Distillation Process, Engineering Management General Engineering.

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In this issue of journal International Journal of Engineering Research in Africa are collected articles which describe the results of engineering solutions of actual problems in mechanical engineering and processing technologies, researching and designing of machines, in the practice the designing of the communication systems and construction and engineering management of modern production. Published articles will be useful for professionals from field of mechanical engineering, students and academic teachers of the related specialties

International Journal of Engineering Fluid Mechanics
International Journal of Engineering Research in Africa Vol.
12

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Plant and Animal Based Composites

International Journal of Biomedical and Clinical Engineering (IJBCE).

Author Impact

In this volume of journal "International Journal of Engineering Research in Africa" are collected articles which describe the results of engineering solutions of actual problems in mechanical engineering, materials processing technologies and chemical technologies, researching and designing of machines, in the designing of control systems for technological processes and engineering management of modern production. Published articles will be useful for professionals from field of mechanical engineering, chemical engineering, engineering

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management and for students and academic teachers of the related specialties.

This book presents the proceedings of International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2016. ERCICA provides an interdisciplinary forum for researchers, professional engineers and scientists, educators, and technologists to discuss, debate and promote research and technology in the upcoming areas of computing, information, communication and their applications. The book discusses these emerging research areas, providing a valuable resource for researchers and practicing engineers alike.

International Journal of Engineering Research in Africa Vol.

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49

An Autobiography of Matthew N. O. Sadiku
International Journal of Information Technology and Web
Engineering (IJITWE).

Issues in Engineering Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Safety Engineering. The editors have built Issues in Engineering Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Safety Engineering in this

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eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Engineering Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at

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<http://www.ScholarlyEditions.com/>.

"We present for our readers the 33rd volume of the International Journal of Engineering Research in Africa which contains articles describing the results of engineering research and solutions in the fields of the applied mechanics, research of materials and processing technologies in the mechanical engineering, construction materials and technologies, equipment design, power electronics, power distribution, technological processes in the chemical production, environmental engineering and engineering management. The articles will be useful for the

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professionals concerned with mechanical engineering, materials science, chemical engineering, power production and engineering management as well as for academic teachers and students majoring in these fields of engineering science."

This e-book is a compilation of papers presented at the Mechanical Engineering Research Day 2017 (MERD'17) - Melaka, Malaysia on 30 March 2017.

Proceedings of Mechanical Engineering Research Day 2017

International Journal of Engineering Research in

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Africa Vol. 26

Issues in Engineering Research and Application: 2011 Edition

International Journal of Engineering Research in Africa Vol. 34

The 57th volume of "International Journal of Engineering Research in Africa" are included peer-reviewed manuscripts reflecting the research results in the fields of materials science, applied and fluid mechanics, power engineering and power management, ecology safety and agriculture, communication, road construction, building materials, and geotechnical engineering. The presented scientific articles can be appreciated by the majority of engineers, academic teachers,

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and students majoring in the fields of engineering science. In this book, Dr. Matthew Sadiku has shared the amazing story of how he rose from his humble beginnings in Nigeria. He described how he was raised in a Muslim home. After his conversion to Christianity, his drive led him to relocate to the United States for advanced degrees. He has provided a text that is lively from beginning to the end. The book provides a good understanding of his life, thought, and work. You will learn about what it takes to be a mover and shaker for God as you see Sadiku traverse the nation rising to success in the academic and publishing worlds. The book is an essential reading for those interested in the genesis of greatness.

Issues in Engineering Research and Application: 2011 Edition

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Concise Rules of APA Style

International Journal of Engineering Research in Africa Vol. 60

This issue of the journal includes articles that described the last research results in materials science, mechanical engineering and machine design, heat transfer, treatment of the aqueous environment and solid waste aerobic degradation, power engineering, cloud computing, inventory management, crop production.

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Issues in Engineering Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Noise Control Engineering. The editors have built Issues in Engineering Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Noise Control Engineering in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Engineering Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed

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