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Drawing for Civil Engineering *The South African Mechanical Engineer* **Unisa Latin American Report** **Global Perspectives on Teacher Performance Improvement** *Unisa English Studies* *Intersection and Interchange Design* **Implementing Communities of Practice in Higher Education** *Index to South African Periodicals* *Journal of the South African Institute of Mining and Metallurgy* *Model Driven Engineering Languages and Systems* **Graph Drawing** **World Guide to Libraries** *Theories of Information Behavior* **Graph Drawing** **Report Writing Style Guide for Engineering Students** *Introduction to Graphics Communications for Engineers* **Nasionale register van navorsingsprojekte** **Monitoring the Quality of Education in Schools** **Engineering Drawing** **Aeronautical Engineer's Data Book** **Sustaining TEL: From Innovation to Learning and Practice** Graphic Imprints *Civil Engineering* **Institutional Transformation To Engage A Diverse Student Body** **Manufacturing Processes and Systems** *Architectural Graphics* Sustainable Development Goals and Institutions of Higher Education **Software Engineering for Manufacturing Systems** *Advances on Mechanics, Design Engineering and Manufacturing IV* *Advances in Informatics and Computing in Civil and Construction Engineering* **Transdisciplinary Engineering Methods for Social Innovation of Industry 4.0** **Applied Thermodynamics and Heat Transfer** American Engineer and Railroad Journal Achieving Software Quality Through Teamwork *Pattern Recognition. ICPR International Workshops and Challenges* **Creativity in Engineering** **Numbers & Needs** **Comparative and International Education for Student Teachers** *Computational Design* **South Africa**

Global Perspectives on Teacher Performance Improvement Jul 29 2022 In-service teacher professional development is central to most empirical conceptions of educational quality. As the techniques and strategies for educational reform have spread rapidly throughout the world, teacher professional development practices have been borrowed across borders. It is important to study the global sharing of information on teacher professional development. Global Perspectives on Teacher Performance Improvement examines the implementation of proven, high quality teacher professional development practices in unique environments around the world. It further explains the power of a globally connected community of teacher quality improvement. Covering topics such as mentoring programs, education technology, and education workforce, this book is an essential resource for educational administration and faculty, pre-service teachers, the public education sector, government officials, educators of both K-12 and higher education, researchers, and academicians.

American Engineer and Railroad Journal Jan 29 2020

Architectural Graphics Sep 06 2020 This book reports on several advances in architectural graphics, with a special emphasis on education, training and research. It gathers a selection of contributions to the 19th International Conference on Graphic Design in Architecture, EGA 2022, held on June 2-4, 2022, in Cartagena, Spain, with the motto: "Beyond drawings. The use of architectural graphics".

Theories of Information Behavior Oct 20 2021 This unique book presents authoritative overviews of more than 70 conceptual frameworks for understanding how people seek, manage, share, and use information in different contexts. A practical and readable reference to both well-established and newly proposed theories of information behavior, the book includes contributions from 85 scholars from 10 countries. Each theory description covers origins, propositions, methodological implications, usage, links to related conceptual frameworks, and listings of authoritative primary and secondary references. The introductory chapters explain key concepts, theorymethod connections, and the process of theory development.

Drawing for Civil Engineering Nov 01 2022 Commencing with the fundamentals of drawing and continuing with draughting practice and conventions, this textbook emphasizes detailing, rather than the calculations or design of the components.

Manufacturing Processes and Systems Oct 08 2020 This two-volume set comprises a collection of 350 peer-reviewed papers which cover the latest advances in, and applications of, computer numerical control systems, operations planning, geometric dimensioning and tolerancing, quality systems, basic machine-tool elements, process automation, operator-machine systems, cost estimating, metrology and testing, and many similar topics.

Monitoring the Quality of Education in Schools May 15 2021 The monitoring of quality has been part of the educational landscape for many decades. Originally the need to monitor arose as part of an economic process whereby policy makers wanted to discern the return on investment in education. This bottom line thinking, while still prominent, has receded into the background in light of global changes and the emergence of a global economy. Now in addition to the question “what is the return on investment?”, the more important question is “are the students in schools ready to participate in the economy of a 21st century society?”. This is underpinned by the inquiry into what knowledge and competencies are required for students to participate meaningfully in nation-building. This inquiry can only be undertaken by means of monitoring, evaluating where the students are and what is required so that students reach their potential. In an ever-changing technologically-oriented world the manner in which competencies and knowledge are identified and how these need to be measured and identified is important. In this book, the theory and practice of underpinning the monitoring of the quality of education is described. This is followed by a number of practical examples, in the form of country case studies, on how theory plays out in practice. The book further provides common themes across developed and developing emerging economies underscoring the need for approaches which are locally relevant but internationally transferable.

Nasionale register van navorsingsprojekte Jun 15 2021

Sustaining TEL: From Innovation to Learning and Practice Feb 09 2021 These proceedings of the ?fth European Conference on Technology Enhanced Learning (EC-TEL 2010) exemplify the highly relevant and successful research being done in TEL. Because of this greatwork,this year’s conference focused on “Sustaining TEL: From Innovation to Learning and Practice.” The last decade hasseensigni?cantinvestmentintermsofe?ortandresources(i.e.,time,people, and money) in innovating education and training. The time has come to make the bold step from small-scale innovation research and development to larg- scale and sustainable implementation and evaluation. It is time to show the world (i.e., government, industry, and the general population) that our ?eld has matured to the stage that sustainable learning and learning practices – both in schools and in industry – can be achieved based upon our work. ThepresentdayTEL communitynowfaces newresearchquestionsrelatedto large-scale deployment of technology enhanced learning, supporting individual learning environments through mashups and social software, new approaches in TEL certi?cation, and so forth. Furthermore, new approaches are required for the design, implementation, and use of TEL to improve the understanding and communication of educational desires and the needs of all stakeholders, ranging from researchers, to learners, tutors, educational organizations, companies, the TEL industry, and policy makers. And the TEL community has taken up this challenge. As one can see in this volume, in its ?fth year the conference was once more able to assemble the most prominent and relevant research results in the TEL area. The conference generatedmorethan150submissionswhichdemonstratesaverylivelyinterestin the conference theme, thus signi?cantly contributing to the conference’s success.

Intersection and Interchange Design May 27 2022

Introduction to Graphics Communications for Engineers Jul 17 2021 "This workbook is an introduction to the standard practices used by engineers and technologists to communicate graphically. The primary goal of this text is to assist students in learning the techniques and standards of communicating graphically so that design ideas can be clearly communicated and produced"--

Aeronautical Engineer's Data Book Mar 13 2021 Aeronautical Engineer's Data Bookis an essential handy guide containing useful up to date information regularly needed by the student or practising engineer. Covering all aspects of aircraft, both fixed wing and rotary craft, this pocket book provides quick access to useful aeronautical engineering data and sources of information for further in-depth information. Quick reference to essential data Most up to date information available

Advances on Mechanics, Design Engineering and Manufacturing IV Jun 03 2020 This book gathers contributions presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2022), held on June 1–3, 2022, in Ischia, Italy. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and collaborative and soft robotics. The book is organized into five main parts, reflecting the focus and primary themes of the conference. The contributions presented here not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed and future interdisciplinary collaborations.

Graph Drawing Sep 18 2021 This book constitutes the proceedings of the 22nd International Symposium on Graph Drawing, GD 2014, held in W ü rzburg, Germany, in September 2014. The 41 full papers presented in this volume were carefully reviewed and selected from 72 submissions. The back matter of the book

also contains 2 page poster papers presented at the conference. The contributions are organized in topical sections named: planar subgraphs; simultaneous embeddings; applications; contact representations; k-planar graphs; crossing minimization; level drawings; theory; fixed edge directions; drawing under constraints; clustered planarity; and greedy graphs.

Unisa English Studies Jun 27 2022

Unisa Latin American Report Aug 30 2022

Institutional Transformation To Engage A Diverse Student Body Nov 08 2020 Helps readers engage with a number of core higher education (HE) issues that have dominated UK and International policy. This title helps them in developing the concept of institutional transformation and student engagement to widen participation in HE and improve student retention and success.

Applied Thermodynamics and Heat Transfer Mar 01 2020 Bearing in mind the large relative significance of problems involved in the removal of heat from the nuclear reactors and its conversion into other types of energy, the basic information on thermodynamics and heat transfer are treated. (Author).

Graphic Imprints Jan 11 2021 This is the Proceedings of the International Congress of Graphic Design in Architecture, EGA 2018, held in Alicante, Spain, May 30-June 1, 2018. About 200 professionals and researchers from 18 different countries attended the Congress. This book will be of interest to researchers in the field of architecture and Engineering. Topics discussed are Innovations in Architecture, graphic design and architecture, history and heritage among others.

Numbers & Needs Sep 26 2019

Computational Design Jul 25 2019 New computational design tools have evolved rapidly and been increasingly applied in the field of design in recent years, complimenting and even replacing the traditional design media and approaches. Design as both the process and product are changing due to the emergence and adoption of these new technologies. Understanding and assessing the impact of these new computational design environments on design and designers is important for advancing design in the contemporary context. Do these new computational environments support or hinder design creativity? How do those tools facilitate designers' thinking? Such knowledge is also important for the future development of design technologies. Research shows that design is never a mysterious non-understandable process, for example, one general view is that design process shares a common analysis-synthesis-evaluation model, during which designers interact between design problem and solution spaces. Understanding designers' thinking in different environments is the key to design research, education and practice. This book focuses on emerging computational design environments, whose impact on design and designers have not been comprehensively and systematically studied. It comprises three parts. The history and recent developments of computational design technologies are introduced in Part I. The main categories of technologies cover from computer-aided drafting and modelling tools, to visual programming and scripting tools for algorithmic design, to advanced interfaces and platforms for interactions between designers, between designers and computers, and between the virtual environment and the physical reality. To critically explore design thinking, especially in these new computational design environments, formal approaches to studying design thinking and design cognition are introduced and compared in Part II, drawing on literature and studies from the 70s to the current era. Part III concludes the book by exploring the impact of different computational design technologies on design and designers, using a series of case studies conducted by the author team building on their close collaboration over the past five years. The book offers new insights into designers' thinking in the rapidly evolving computational design environments, which have not been critically and systematically studied and reported in the current literature. The book is meant for design researchers, educators and students, professional practitioners and consultants, as well as people who are interested in computational design in general.

Journal of the South African Institute of Mining and Metallurgy Feb 21 2022

Advances in Informatics and Computing in Civil and Construction Engineering May 03 2020 This proceedings volume chronicles the papers presented at the 35th CIB W78 2018 Conference: IT in Design, Construction, and Management, held in Chicago, IL, USA, in October 2018. The theme of the conference focused on fostering, encouraging, and promoting research and development in the application of integrated information technology (IT) throughout the life-cycle of the design, construction, and occupancy of buildings and related facilities. The CIB – International Council for Research and Innovation in Building Construction – was established in 1953 as an association whose objectives were to stimulate and facilitate international cooperation and information exchange between governmental research institutes in the building and construction sector, with an emphasis on those institutes engaged in technical fields of research. The conference brought together more than 200 scholars from 40 countries, who presented the innovative concepts and methods featured in this collection of papers.

Achieving Software Quality Through Teamwork Dec 30 2019 Successful software depends not only on technical excellence but on how members of the software team work together. Written in easy to understand language by a leading expert in the field, this ground-breaking volume provides an overview of the team culture required to develop quality software. Reflecting the different views on the nature of software quality, the book helps groups in a software team to communicate more effectively and to overcome the conflict created by their different perceptions of quality. You learn the roles and activities of team members (including customers) throughout the life of a software product, from before the software development starts and during the software development lifecycle, to after the software has been deployed and is in use.

Index to South African Periodicals Mar 25 2022

Comparative and International Education for Student Teachers Aug 25 2019

Creativity in Engineering Oct 27 2019 Creativity is like an iceberg - the resulting new idea, or novel solution is only 10% of the effort. The other 90% is the complex interplay of thinking skills and strategies, personal and motivational properties that activate these skills and strategies, and the social and organizational factors of the environment that influence the creative process. Creativity in Engineering focuses on the Process, Person, Product, and Place to understand when and why creativity happens in the engineering environment and how it can be further encouraged. Special Features: Applies findings in creativity research to the engineering arena Defines engineering creativity and differentiates it from innovation Discusses personality and motivational factors that impact creativity Clarifies the role of creativity in the design process Details the impact of thinking skills and strategies in creativity Identifies the role the organization and environment plays in encouraging creativity Discusses the 4P's of Creativity: Person, Product, Process, and Place Provides tactics and tools that will help users foster creativity in engineering environments Identifies how creativity results in innovative new solutions to problems Applies creativity research and knowledge to the engineering space

Civil Engineering Dec 10 2020

South Africa Jun 23 2019

Sustainable Development Goals and Institutions of Higher Education Aug 06 2020 This volume brings together both theoretical and case study based contributions to the implementation of the Sustainable Development Goals (SDGs) in Institutions of Higher Education (IHE), presenting an impactful combination of authors from both developing and developed countries. While most current publications addressing the SDGs and education focus on sustainable development in general and specific topics such as climate change or energy, this book attempts to accelerate the localisation of the SDGs by presenting opportunities and innovations offered in various universities and campuses regarding SDGs localisation. The book seeks to provide an important contribution to the global dialogue on IHE and the SDGs, and will be of interest to academics and researchers engaged in the SDGs and education, as well as government agencies and other interested stakeholders. The book focuses on curriculum and learning matters, research and development as well as community engagement. Case studies detail the integration of SDGs in academic and professional development, new approaches to implementing sustainability science instruction, improvements in teaching practices to enhance teacher competence, and responsible management education. Additional focus is placed on the alignment of the SDGs in higher education with the other goals, emphasizing technological innovation for improved human health and environmental management, and climate change policies and action plans. Interdisciplinary solutions for pressing environmental problems are also provided, making sure that no one is left behind in realising these global development goals.

World Guide to Libraries Nov 20 2021 Each new edition lists approximately 43,000 libraries in more than 200 countries with details of their current addresses and an inventory of their present holdings.

Implementing Communities of Practice in Higher Education Apr 25 2022 In this edited collection, the authors pick up the communities of practice (CoP) approach of sharing practice in their reflection on the experience of taking their CoP vision from a dream to reality. Their stories articulate the vision, the passion and the challenge of working within and/or changing existing institutional culture and practice. The book discusses strategies that worked and considers the lessons learnt to inspire future dreamers and schemers. The multiple perspectives provided in the case studies will assist higher education leaders, as well as academic and professional staff, in establishing or assessing CoPs. The book offers insights into implementation strategies, practical guidelines and ideas on how CoP theoretical underpinnings can be tailored to the higher education context.

Model Driven Engineering Languages and Systems Jan 23 2022 This book constitutes the refereed proceedings of the 15th International Conference on Model

Driven Engineering Languages and Systems, MODELS 2012, held in Innsbruck, Austria, in September/October 2012. The 50 papers presented in this volume were carefully reviewed and selected from a total of 181 submissions. They are organized in topical sections named: metamodels and domain specific modeling; models at runtime; model management; modeling methods and tools, consistency analysis, software product lines; foundations of modeling; static analysis techniques; model testing and simulation; model transformation; model matching, tracing and synchronization; modeling practices and experience; and model analysis.

Pattern Recognition. ICPR International Workshops and Challenges Nov 28 2019 This 8-volumes set constitutes the refereed of the 25th International Conference on Pattern Recognition Workshops, ICPR 2020, held virtually in Milan, Italy and rescheduled to January 10 - 11, 2021 due to Covid-19 pandemic. The 416 full papers presented in these 8 volumes were carefully reviewed and selected from about 700 submissions. The 46 workshops cover a wide range of areas including machine learning, pattern analysis, healthcare, human behavior, environment, surveillance, forensics and biometrics, robotics and egovision, cultural heritage and document analysis, retrieval, and women at ICPR2020.

Engineering Drawing Apr 13 2021 Following the national engineering curriculum, this title contains competency-based training requirements and Australian standards.

Transdisciplinary Engineering Methods for Social Innovation of Industry 4.0 Apr 01 2020 The concept of concurrent engineering (CE) was first developed in the 1980s. Now often referred to as transdiciplinary engineering, it is based on the idea that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process (PCP). The main goal of CE is to increase the efficiency and effectiveness of the PCP and reduce errors in later phases, as well as incorporating considerations – including environmental implications – for the full lifecycle of the product. It has become a substantive methodology in many industries, and has also been adopted in the development of new services and service support. This book presents the proceedings of the 25th ISPE Inc. International Conference on Transdisciplinary Engineering, held in Modena, Italy, in July 2018. This international conference attracts researchers, industry experts, students, and government representatives interested in recent transdisciplinary engineering research, advancements and applications. The book contains 120 peer-reviewed papers, selected from 259 submissions from all continents of the world, ranging from the theoretical and conceptual to papers addressing industrial best practice, and is divided into 11 sections reflecting the themes addressed in the conference program and addressing topics as diverse as industry 4.0 and smart manufacturing; human-centered design; modeling, simulation and virtual design; and knowledge and data management among others. With an overview of the latest research results, product creation processes and related methodologies, this book will be of interest to researchers, design practitioners and educators alike.

Report Writing Style Guide for Engineering Students Aug 18 2021

Graph Drawing Dec 22 2021 The 11th International Symposium on Graph Drawing (GD 2003) was held on September 21–24, 2003, at the Universit` a degli Studi di Perugia, Perugia, Italy. GD 2003 attracted 93 participants from academic and industrial institutions in 17 countries. In response to the call for papers, the program committee received 88 re- larsubmissionsdescribingoriginalresearchand/orsystemdemonstrations.Each submission was reviewed by at least 4 program committee members and c- ments were returned to the authors. Following extensive e-mail discussions, the program committee accepted 34 long papers (12 pages each in the proceedings) and 11 short papers (6 pages each in the proceedings). Also, 6 posters (2 pages each in the proceedings) were displayed in the conference poster gallery. In addition to the 88 submissions, the program committee also received a submission of special type, one that was not competing with the others for a time slot in the conference program and that collects selected open problems in graph drawing. The aim of this paper, which was refereed with particular care andUNCHANGEDtworoundsofrevisions,istostimulatefutureresearchinthe graph drawing community. The paper presents 42 challenging open problems in di?erentareasofgraphdrawingandcontainsmorethan120references.Although the length of the paper makes it closer to a journal version than to a conference extended abstract, we decided to include it in the conference proceedings so that it could easily reach in a short time the vast majority of the graph drawing community.

The South African Mechanical Engineer Sep 30 2022

Software Engineering for Manufacturing Systems Jul 05 2020 Software has become a decisive cost and time factor in regard to developing and establishing manufacturing systems and setting them into operation. In addition, software determines the availability, reliability as well as functionality of manufacturing units. Software Engineering for Manufacturing Systems considers the methods and procedures required to deal with problems in the software engineering of control technology for manufacturing systems. Significantly, the following topics are addressed: * definitions and requirements of software for control technology * system design, describing forms of control software * CASE tools for the generation of a code * configuration, adaption of standard software variants, and re-usability of software * and man-machine interface. It contains the selected proceedings of the International Conference on Software Engineering and Case Tools for Control Technology of Manufacturing Systems, sponsored by the IFIP and held in Germany, in March 1996.