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Handbook of Research on E-Learning Standards and Interoperability:

Frameworks and Issues SAE International
The European Conference on Technology-Enhanced Learning (EC-TEL 2008) was the third event of a series that started in 2006. The two first editions were organized by Pro-Learn (<http://www.prolearn-project.org/>), a European Network of Excellence. In 2008, several members of Kaleidoscope, the other European Network of Excellence (<http://www.noekaleidoscope.org/pub/>), joined as co-chair, committee members, reviewers and authors. These two networks are no longer funded, but our aim was to turn EC-TEL into a sustainable series of high-quality events and thereby to contribute to the scientific landscape of technology-enhanced learning. A new network, named STELLAR, will be launched in 2009, with members from both existing networks as well as new members and will support the future editions of this conference. The scope of EC-TEL 2008 covered the different fields of learning technologies: education, psychology, computer science. The contributions in this volume address the sign of innovative environments, computational models and architectures, results of empirical studies on socio-cognitive processes, field studies regarding the use of technologies in context, collaborative processes, pedagogical scenarios, reusable learning objects and emerging objects, groups and communities, learning networks, interaction analysis, metadata, personalization, collaboration scripts, learning adaptation, collaborative environments, resources, tangible tools, as well as learning management systems.
Annual Department of Defense Bibliography of Logistics Studies and Related Documents

Cybellium Ltd

The development of self-adaptive software requires the engineering of an adaptation engine that controls and adapts the underlying adaptable software by means of feedback loops. The adaptation engine often describes the adaptation by using runtime models representing relevant aspects of the adaptable software and particular activities such as analysis and planning that operate on these runtime models. To systematically address the interplay between runtime models and adaptation activities in adaptation engines, runtime megamodels have been proposed for self-adaptive software. A runtime megamodel is a specific runtime model whose elements are runtime models and adaptation activities. Thus, a megamodel captures the interplay between multiple models and between models and activities as well as the activation of the activities. In this article, we go one step further and present a modeling language for Executable Runtime Megamodels (EUREMA) that considerably eases the development of adaptation engines by following a model-driven engineering approach. We provide a domain-specific modeling language and a runtime interpreter for adaptation engines, in particular for feedback loops. Megamodels are kept explicit and alive at runtime and by interpreting them, they are directly executed to run feedback loops. Additionally, they can be dynamically adjusted to adapt feedback loops. Thus, EUREMA supports development by making feedback loops, their runtime models, and adaptation activities explicit at a higher level of abstraction. Moreover, it enables complex solutions where multiple feedback loops interact or even operate on top of each other. Finally, it leverages the co-existence of self-adaptation and off-line adaptation for evolution.
New Pencil Points IGI Global
We live in an era defined by a wealth of open and readily available information, and the accelerated evolution of social, mobile and creative technologies. The provision of knowledge, once a primary role of educators, is now devolved to an immense web of free and readily accessible sources. Consequently, educators need to redefine their role not just "from sage on the stage to guide on the side" but, as more and more voices insist, as "designers for learning". The call for such a repositioning of educators is heard from leaders in the field of technology-enhanced learning (TEL) and resonates well with the growing culture of design-based research in Education. However, it is still struggling to find a foothold in educational practice. We contend that the root causes of this

discrepancy are the lack of articulation of design practices and methods, along with a shortage of tools and representations to support such practices, a lack of a culture of teacher-as-designer among practitioners, and insufficient theoretical development. The Art and Science of Learning Design (ASLD) explores the frameworks, methods, and tools available for teachers, technologists and researchers interested in designing for learning. Learning Design theories arising from findings of research are explored, drawing upon research and practitioner experiences. It then surveys current trends in the practices, methods, and methodologies of Learning Design. Highlighting the translation of theory into practice, this book showcases some of the latest tools that support the learning design process itself.

Technical Data Digest John Wiley & Sons
Handbook of Research on E-Learning Standards and Interoperability: Frameworks and Issues promotes the discussion of specific solutions for increasing the interoperability of standalone and Web-based educational tools. This book investigates issues arising from the deployment of learning standards and provides relevant theoretical frameworks and leading empirical research findings. Chapters presented in this work are suitable for practitioners and researchers in the area of educational technology with a focus on content reusability and interoperability.

Data Acquisition from Light-Duty Vehicles Using OBD and CAN Springer Science & Business Media

This book constitutes the refereed post-conference proceedings of the 14th International Workshop on Groupware: Design, Implementation, and Use, held in Omaha, Nebraska, USA, during September 14-18, 2008. The 30 papers presented were carefully reviewed and selected from numerous submission. The topics covered are groupware solutions, co-located groups, groupware for health care, collaborative systems development, collaborative emergency response, groupware

approaches, patterns of collaboration, thinklets-based process design, mobile applications, knowledge and learning, groupware technologies, and collaborative modeling.

Data Acquisition from HD Vehicles Using J1939 CAN Bus

Universitätsverlag Potsdam

In the engine development process, simulation and predictive programs have continuously gained in reliance. Due to the complexity of future internal combustion engines the application of simulation programs towards a reliable "virtual engine development" is a need that represents one of the greatest challenges. Marco Chioldi presents an innovative 3D-CFD-tool, exclusively dedicated and optimized for the simulation of internal combustion engines.

Thanks to improved or newly developed 3D-CFD-models for the description of engine processes, this tool ensures an efficient and reliable calculation also by using coarse 3D-CFD-meshes. Based on this approach the CPU-time can be reduced up to a factor 100 in comparison to traditional 3D-CFD-simulations. In addition an integrated and automatic "evaluation tool" establishes a comprehensive analysis of the relevant engine parameters. Due to the capability of a reliable "virtual development" of full-engines, this fast response 3D-CFD-tool makes a major contribution to the engine development process. Südwestmetall-Förderpreis 2010

SEO For Dummies John Wiley & Sons

A unique system focus that presents specific solutions for specific appliances This publication presents state-of-the-art power management techniques for modern electronic appliances that rely on such very large-scale integration (VLSI) chips as CPUs and DSPs. The author thoroughly covers all aspects of the field, including semiconductor manufacturing processes, packages, circuits, functions, and systems. A unique and significant contribution to the field, the publication adopts a "system focus" by first presenting the appliance and then delving into the power management architecture and topologies that best serve each appliance.

In addition to specific techniques and applications, the publication discusses fundamental physical and socioeconomic issues. For example, the author examines Moore's law and its effect on power management and heat dissipation, which points to a future breakthrough needed to continue the fast pace of advancement in the high-tech industry. The author provides a solid technical foundation and an analysis of popular electronic appliances, including: * Overview of the semiconductor industry * Plain-English discussion of semiconductor processes and packages * Step-by-step guide to analog design building from the transistor to higher-level functions, leading to the implementation of a complete voltage regulator * Popular DC-DC voltage regulation architectures * AC-DC architectures for power conversion * Ultra-portable devices, such as cellular phones, PDAs, and digital still cameras * Desktop and notebook PCs The publication concludes with a chapter on special power management topics and an expert forecast of future directions for the field. This is essential reading for researchers, engineers, and designers in the semiconductor and integrated circuits industries. With its extensive use of cross-section drawings as well as transistor circuit schematics, this is also a recommended textbook for advanced undergraduate and graduate courses in computer science and electrical engineering.

NASA Specifications and Standards IGI Global

Your fully updated guide to search engine optimization Packed with tips, tricks, and secrets, SEO For Dummies shows you how to create and maintain a website that ranks at the top of search engines and drives high-volume traffic. Using plain-English explanations and easy-to-follow instructions, this friendly guide helps you come to grips with search engine basics—what they are, which ones are important, and how to get started—and build a search-engine-friendly site. SEO is an integral

part of getting a site to rank in the various search engines in order to attract potential customers. In the new edition of this bestselling guide to search engine optimization, you'll learn the ins and outs and best practices of successful SEO in order to make your website content more search-engine friendly so that it ranks higher among searches and draws the masses. Covering the latest information on pay-per-click options, using social media to boost your profile, and managing your platform and reputation to positively impact your search engine rankings, this hands-on guide is the fun and friendly place to start learning how to move your site to the top of the rankings. Develop a search strategy and use local search capabilities Build sites that increase your search visibility Analyze results with updated tracking tools Maximize content marketing strategies If you're asking yourself the essential question of "how do I get people to visit my site," you've come to the right place!

[An Innovative 3D-CFD-Approach towards Virtual Development of Internal Combustion Engines](#) IGI Global

"Fundamentals of Medium/Heavy Duty Diesel Engines, Second Edition offers comprehensive coverage of every ASE task with clarity and precision in a concise format that ensures student comprehension and encourages critical thinking. This edition describes safe and effective diagnostic, repair, and maintenance procedures for today's medium and heavy vehicle diesel engines"--

[The Commercial Car Journal](#) Springer

The need for manufacturers to meet U.S. Environmental Protection Agency (EPA) mobile source diesel emissions standards for on-highway light duty and heavy duty vehicles has been the driving force for the control of diesel particulate and NOx emissions reductions. Diesel Particulate Emissions: Landmark Research 1994-2001 contains the latest research and development findings that will help guide engineers to achieve low particulate emissions from future engines. Based on extensive SAE literature from the past seven years, the 45 papers in this book have been selected from the SAE Transactions Journals.

11th International Conference on Turbochargers and Turbocharging

Elsevier

Modern vehicles have electronic control units (ECUs) to control various subsystems such as the engine, brakes, steering, air conditioning, and infotainment. These ECUs (or simply 'controllers') are networked together to share information, and output directly measured and calculated data to each other. This in-vehicle network is a data goldmine for improved maintenance, measuring vehicle performance and its subsystems, fleet management, warranty and legal issues, reliability, durability, and accident reconstruction. The focus of *Data Acquisition from HD Vehicles Using J1939 CAN Bus* is to guide the reader on how to acquire and correctly interpret data from the in-vehicle network of heavy-duty (HD) vehicles. The reader will learn how to convert messages to scaled engineering parameters, and how to determine the available parameters on HD vehicles, along with their accuracy and update rate. Written by two specialists in this field, Richard (Rick) P. Walter and Eric P. Walter, principals at HEM Data, located in the United States, the book provides a unique road map for the data acquisition user. The authors give a clear and concise description of the CAN protocol plus a review of all 19 parts of the SAE International J1939 standard family. Pertinent standards are illuminated with tables, graphs and examples. Practical applications covered are calculating fuel economy, duty cycle analysis, and capturing intermittent faults. A comparison is made of various diagnostic approaches including OBD-II, HD-OBD and World Wide Harmonized (WWH) OBD. *Data Acquisition from HD Vehicles Using J1939 CAN Bus* is a must-have reference for those interested to acquire data effectively from the SAE J1939 equipped vehicles.

Emerging Technologies and Applications in Data Processing and Management IGI Global

"This book provides fundamental research on the architecture of learning technology systems, discussing such issues as the common structures in LTS and solutions for specific forms such as knowledge-based, distributed, or adaptive applications of e-learning. Researchers, and scholars in the fields of learning content software development, computing

and educational technologies, and e-learning will find it an invaluable resource"--Provided by publisher.

Architecture Solutions for E-Learning Systems Springer

At present one of the main obstacles to a broader application of expert systems is the lack of a theory to tell us which problem-solving methods are available for a given problem class. Such a theory could lead to significant progress in the following central aims of the expert system technique: - Evaluating the technical feasibility of expert system projects: This depends on whether there is a suitable problem-solving method, and if possible a corresponding tool, for the given problem class. - Simplifying knowledge acquisition and maintenance: The problem-solving methods provide direct assistance as interpretation models in knowledge acquisition. Also, they make possible the development of problem-specific expert system tools with graphical knowledge acquisition components, which can be used even by experts without programming experience. - Making use of expert systems as a knowledge medium: The structured knowledge in expert systems can be used not only for problem solving but also for knowledge communication and tutorial purposes. With such a theory in mind, this book provides a systematic introduction to expert systems. It describes the basic knowledge representations and the present situation with regard to the identification, realization, and integration of problem-solving methods for the main problem classes of expert systems: classification (diagnostics), construction, and simulation.

Intelligent Adaptation and Personalization Techniques in Computer-Supported

Collaborative Learning Delene Kvasnicka

Adaptation and personalization have been extensively studied in CSCL research community aiming to

design intelligent systems that adaptively support eLearning processes and collaboration. Yet, with the fast development in Internet technologies, especially with the emergence of new data technologies and the mobile technologies, new opportunities and perspectives are opened for advanced adaptive and personalized systems.

Adaptation and personalization are posing new research and development challenges to nowadays CSCL systems. In particular, adaptation should be focused in a multi-dimensional way (cognitive, technological, context-aware and personal). Moreover, it should address the particularities of both individual learners and group collaboration. As a consequence, the aim of this book is twofold. On the one hand, it discusses the latest advances and findings in the area of intelligent adaptive and personalized learning systems. On the other hand it analyzes the new implementation perspectives for intelligent adaptive learning and collaborative systems that are brought by the advances in scripting languages, IMS LD, educational modeling languages and learning activity management systems. Given the variety of learning needs as well as the existence of different technological solutions, the book exemplifies the methodologies and best practices through several case studies and adaptive real-world collaborative learning scenarios, which show the advancement in the field of analysis, design and implementation of intelligent adaptive and personalized systems.

Scientific and Technical Aerospace Reports Springer
Advances in web technology and the proliferation of sensors

and mobile devices connected to the internet have resulted in the generation of immense data sets available on the web that need to be represented, saved, and exchanged. Massive data can be managed effectively and efficiently to support various problem-solving and decision-making techniques. Emerging Technologies and Applications in Data Processing and Management is a critical scholarly publication that examines the importance of data management strategies that coincide with advancements in web technologies. Highlighting topics such as geospatial coverages, data analysis, and keyword query, this book is ideal for professionals, researchers, academicians, data analysts, web developers, and web engineers.

Fundamentals of Medium/Heavy Duty Diesel Engines SAE International Unleash the Power of Visibility with "Mastering SEO" In today's digital landscape, search engine optimization (SEO) is the driving force behind online success. SEO professionals are the architects of visibility, ensuring that businesses and websites can be found by their target audience. "Mastering SEO" is your comprehensive guide to excelling in the world of SEO, providing you with the knowledge, skills, and strategies to dominate search engine rankings and drive organic traffic to your website. Your Path to SEO Excellence SEO is more than just keywords; it's about understanding the algorithms, user intent, and content strategy that propel websites to the top of search results. Whether you're a newcomer to SEO or an experienced practitioner seeking to refine your skills, this book will empower you to master the art and science of SEO. What You Will Discover SEO Fundamentals: Gain a deep understanding of SEO principles, including keyword research, on-page optimization, and off-page SEO techniques. Technical SEO: Dive into the technical aspects of SEO, including website architecture, mobile optimization, and website speed. Content Strategy: Learn to create SEO-optimized content that engages readers and satisfies search engine algorithms. Local and Global SEO: Explore strategies for optimizing websites for local and international audiences. SEO

Tools: Master the use of essential SEO tools and software to streamline your optimization efforts. Analytics and Reporting: Discover how to measure SEO success and report on key performance metrics. Why "Mastering SEO" Is Essential Comprehensive Coverage: This book provides comprehensive coverage of SEO topics, ensuring that you have a well-rounded understanding of SEO techniques and best practices. Expert Guidance: Benefit from insights and advice from experienced SEO professionals and industry experts who share their knowledge and proven strategies. Career Advancement: SEO expertise is in high demand, and this book will help you unlock your full potential in this dynamic field. Stay Competitive: In a crowded online marketplace, mastering SEO is vital for staying competitive and achieving digital marketing success. Your Journey to SEO Mastery Begins Here "Mastering SEO" is your roadmap to excelling in the world of SEO and advancing your career. Whether you aspire to be an SEO specialist, digital marketer, or business owner, this guide will equip you with the skills and knowledge to achieve your goals. Don't miss the opportunity to become a master of SEO. Start your journey to SEO excellence today and join the ranks of professionals who are shaping the digital landscape. "Mastering SEO" is the ultimate resource for individuals seeking to excel in the world of search engine optimization. Whether you are new to SEO or looking to enhance your skills, this book will provide you with the knowledge and strategies to become a proficient SEO expert. Don't wait; begin your journey to SEO mastery today! © 2023 Cybellium Ltd. All rights reserved. www.cybellium.com

Model-driven engineering of adaptation engines for self-adaptive software Springer Science & Business Media Increasing demands for noise reduction and refinement dictate improvements in technology in many areas of vehicle and power plant design and development. The papers from this IMechE conference consider all aspects of this topic. *Flow and Combustion in Reciprocating Engines* Jones & Bartlett Learning Some of the most challenging

problems in science and engineering are being addressed by the integration of computation and science, a research field known as computational science. Computational science plays a vital role in fundamental advances in biology, physics, chemistry, astronomy, and a host of other disciplines. This is through the coordination of computation, data management, access to instrumentation, knowledge synthesis, and the use of new devices. It has an impact on researchers and practitioners in the sciences and beyond. The sheer size of many challenges in computational science dictates the use of supercomputing, parallel and distributed processing, grid-based processing, advanced visualization and sophisticated algorithms. At the dawn of the 21st century the series of International Conferences on Computational Science (ICCS) was initiated with a first meeting in May 2001 in San Francisco. The success of that meeting motivated the organization of the second meeting held in Amsterdam April 21-24, 2002, where over 500 participants pushed the research field further. The International Conference on Computational Science 2003 (ICCS 2003) is the follow-up to these earlier conferences. ICCS 2003 is unique, in that it was a single event held at two different sites almost opposite each other on the globe - Melbourne, Australia and St. Petersburg, Russian Federation. The conference ran on the same dates at both locations and all the presented work was published in a single set of proceedings, which you hold in your hands right now. *Big Data Analytics for Internet of Things* Springer Science & Business Media Optimization of combustion processes in automotive engines is a key factor in reducing fuel consumption. This book, written by eminent university and industry researchers, investigates and describes flow and combustion

processes in diesel and gasoline engines.

The Art & Science of Learning

Design John Wiley & Sons
BIG DATA ANALYTICS FOR
INTERNET OF THINGS Discover
the latest developments in
IoT Big Data with a new
resource from established and
emerging leaders in the field
Big Data Analytics for
Internet of Things delivers a
comprehensive overview of all
aspects of big data analytics
in Internet of Things (IoT)
systems. The book includes
discussions of the enabling
technologies of IoT data
analytics, types of IoT data
analytics, challenges in IoT
data analytics, demand for
IoT data analytics, computing
platforms, analytical tools,
privacy, and security. The
distinguished editors have
included resources that
address key techniques in the
analysis of IoT data. The
book demonstrates how to
select the appropriate
techniques to unearth
valuable insights from IoT
data and offers novel designs
for IoT systems. With an
abiding focus on practical
strategies with concrete
applications for data
analysts and IoT
professionals, Big Data
Analytics for Internet of
Things also offers readers: A
thorough introduction to the
Internet of Things, including
IoT architectures, enabling
technologies, and
applications An exploration
of the intersection between
the Internet of Things and
Big Data, including IoT as a
source of Big Data, the
unique characteristics of IoT
data, etc. A discussion of
the IoT data analytics,
including the data analytical
requirements of IoT data and
the types of IoT analytics,
including predictive,
descriptive, and prescriptive
analytics A treatment of
machine learning techniques
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Perfect for professionals,

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data analytics related to IoT
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and manufacturers interested
in facilitating the efficient
implementation of data
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