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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, the follow-up to these earlier conferences. ICCS access to instrumentation, knowledge synthesis, 2003 is unique, in that it was a single event 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 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.

Nuclear Science Abstracts Springer Science & Business Media
"This book provides information on different styles of instructional design methodologies, tips, and strategies on how to use technology to facilitate active learning and techniques to help faculty and researchers develop online instructional and teaching materials. It enables libraries to provide a foundational

reference for researchers, educators, administrators, and others in the context of instructional systems and technology"--Provided by publisher.

An Innovative 3D-CFD-Approach towards Virtual Development of Internal Combustion Engines Springer Science & Business Media

Thoroughly updated and expanded, Fundamentals of Medium/Heavy Diesel Engines, Second Edition offers comprehensive coverage of basic concepts and fundamentals, building up to advanced instruction on the latest technology coming to market for medium- and heavy-duty diesel engine systems.

Fundamentals of Medium/Heavy Duty Diesel Engines IGI Global

This Essential Buyer's Guide on Triumph's popular Stag examines the model's history, evolution, features, fittings, performance and typical problem areas through detailed text and color photographs of both restored and original examples.

Technical Data Digest IGI Global

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.

Confidential Documents 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.

Architecture Solutions for E-Learning Systems Springer

This book constitutes the thoroughly refereed post-conference proceedings of the Satellite Events of the 16th Extended Semantic Web Conference, ESWC 2019, held in Portorož, Slovenia, in June 2019. The volume contains 38 poster and demonstration papers, 2 workshop papers, 5 PhD symposium papers, and 3 industry track papers, selected out of a total of 68 submissions. They deal with all areas of semantic web research, semantic technologies on the Web and Linked Data.

Technical Abstract Bulletin ASTM International

The future market forces and environmental considerations in the passenger car and commercial vehicle sector mean more stringent engine downsizing is far more prevalent. Therefore, novel systems are required to provide boosting solutions including hybrid, electric-motor and exhaust waste energy recovery systems for high efficiency, response, reliability, durability and compactness. The current emission legislations and environmental trends for reducing CO₂ and fuel consumption are the major market forces in the land and marine transport industries. The internal combustion engine is the key product and downsizing, efficiency and economy are the driving forces for development for both spark ignition (SI) and compression ignition (CI) engines in both markets. Future market forces and environmental considerations for transportation, specifically in the passenger car, commercial vehicle and the marine sectors mean more stringent engine downsizing. This international conference is the latest in the highly successful and prestigious series held regularly since 1978.

These proceedings from the Institution OCOs highly successful and prestigious series address current and novel aspects of turbocharging systems design, boosting solutions for engine downsizing and improvements in efficiency, and present the latest research and development in this growing and innovative area. Focuses on boosting solutions including hybrid, electric-motor and exhaust waste energy recovery systems Explores the current need for high efficiency, reliability, durability and compactness in recovery systems Examines what new systems developments are underway"

Monthly Catalog of United States Government Publications Springer
Beginning with 1937, the April issue of each vol. is the Fleet reference annual.

Index of Specifications and Related Publications Used by U.S. Air Force Military Index IGI Global
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.

Index of Specifications and Standards
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Issues in Artificial Intelligence, Robotics and Machine Learning: 2013 Edition is a ScholarlyEditions™ book that delivers

timely, authoritative, and comprehensive information about Expert Systems. The editors have built Issues in Artificial Intelligence, Robotics and Machine Learning: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Expert Systems 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 Artificial Intelligence, Robotics and Machine Learning: 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 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 <http://www.ScholarlyEditions.com/>.

ScholarlyEditions

Annotation Emerging from a November 1991 symposium in Scottsdale, Arizona, 19 papers report on advances in developing, testing, and applying engine cooling fluids for automobiles and heavy duty engines. Among the topics are carboxylic acids as corrosion inhibitors in engine coolant, phosphate-

molybdate supplements to heavy duty diesel engines, the toxicity and disposal of engine coolants, and the characterization of used engine coolant by statistical analysis. Annotation copyright by Book News, Inc., Portland, OR.

Intelligent Adaptation and Personalization Techniques in Computer-Supported Collaborative Learning 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. The Commercial Car Journal Jones & Bartlett Learning

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 Chiodi 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 Journal of Science and Engineering Research Hearst Books

"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. Systematic Introduction to Expert Systems Springer Science & Business Media

The two volume set LNCS 12506 and 12507 constitutes the proceedings of the 19th International Semantic Web Conference, ISWC 2020, which was planned to take place in Athens, Greece, during November 2-6, 2020. The conference changed to a virtual format due to the COVID-19 pandemic. The papers included in this volume deal with the latest advances in fundamental research, innovative technology, and applications of the Semantic Web, linked data, knowledge graphs, and knowledge processing on the Web. They were carefully reviewed and selected for inclusion in the proceedings as follows: Part I: Features 38 papers from the research track which were accepted from 170 submissions; Part II: Includes 22 papers from the resources track which were accepted from 71 submissions; and 21 papers in the in-use track, which had a total of 46 submissions. Chapter "Transparent Integration and Sharing of Life Cycle Sustainability Data with Provenance" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Engine Coolant Testing, Third Volume Springer
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.

Emerging Technologies and Applications in Data Processing and Management Springer Nature Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June)

Catalog of Copyright Entries. Third Series
Groupware: Design, Implementation, and Use
Groupware: Design, Implementation, and Use
Springer

Monthly Catalogue, United States Public Documents Springer Nature

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.