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Data Engineering has become a necessary and critical activity for business, engineering, and scientific organizations as the move to service oriented architecture and web services moves into full swing. Notably, the US Department of Defense is mandating that all of its agencies and contractors assume a defining presence on the Net-centric Global Information Grid. This book provides the first practical approach to data engineering and modeling, which supports interoperabililty with consumers of the data in a service- oriented architectures (SOAs). Although XML (eXtensible Modeling Language) is the lingua franca for such interoperability, it is not sufficient on its own. The approach in this book addresses critical objectives such as creating a single representation for multiple applications, designing models capable of supporting dynamic processes, and harmonizing legacy data models for web-based co-existence. The approach is based on the System Entity Structure (SES) which is a well-defined structure, methodology, and practical tool with all of the functionality of UML (Unified Modeling Language) and few of the drawbacks. The SES originated in the formal representation of hierchical simulation models. So it provides an axiomatic formalism that enables automating the development of XML dtds and schemas, composition and decomposition of large data models, and analysis of commonality among structures. Zeigler and Hammond include a range of features to benefit their readers. Natural language, graphical and XML forms of SES specification are employed to allow mapping of legacy meta-data. Real world examples and case studies provide insight into data engineering and test evaluation in various application domains. Comparative information is provided on concepts of ontologies, modeling and simulation, introductory linguistic background, and support options enable programmers to work with advanced tools in the area. The website of the Arizona Center for Integrative Modeling and Simulation, co-founded by Zeigler in 2001, provides links to downloadable software to accompany the book. The only practical guide to integrating XML and web services in data engineering Introduces linguistic levels of interoperability for effective information exchange Covers the interoperability standards mandated by national and international agencies Complements Zeigler's classic THEORY OF MODELING AND SIMULATION

Link 16 is a Communications, Navigation, and Identification (CNI) system, intended to exchange surveillance and Command and Control (C2) information among various C2 and weapons platforms, which enhance the missions of each service. NATO STANAG 5516/MIL-STD-6016 describes the TADIL J message formats and Link 16 network instructions. Several protocols have evolved to satisfy specific needs. The NATO STANAG 5602 SIMPLE Link 16 Standard is one such protocol. The standard is designed to be complementary to the SIMPLE Standard. Recently, the Simulation Interoperability Standards Organization (SISO) has developed a Link 16 Simulation Standard. The objective of the simulation standard is to establish a single format to exchange TADIL J messages, and emulate a Link 16 radio frequency network that supports Distributed Missions Operations (DMO) training for the warfighter. In developing a standard for simulating Link 16 in Distributive Interactive Simulation (DIS) and High Level Architecture (HLA), it is recognized that there are widely varying requirements for achieving fidelity among different users. The IEEE 1278.1a-1998 Standard describes established DIS Transmitter and Signal Protocol Data Units (PDUs), but they are not specifically defined for Link 16 simulation. The SISO Link 16 Standard does not change the IEEE 1278.1a-1998 Standard fields for the Transmitter or Signal PDUs, but exploits the fact that both PDUs are variable length. For Transmitter PDUs, the standard defines how the variable length modulation parameter fields must be populated. For Signal PDUs, Link 16 specific information is relegated to the variable length data fields. This paper presents the Link 16 DIS Transmitter and Signal PDU structures, HLA HLA BOM Object Model Templates (OMTs), general requirements, and implementation guidelines that provide interoperability among C2 systems.

Apresentando os elementos constituintes de projetos de alta complexidade, como os projetos espaciais, este livro discorre sobre as melhores práticas das principais organizações do mundo dedicadas ao tema. Além disso, divulga tendências atuais, onde tanto as agências governamentais quanto as empresas privadas estarão desempenhando uma série de serviços, tais como transporte de astronautas e suprimentos para estações espaciais, turismo espacial e viagens a outros planetas e satélites. Espera-se desta forma entregar aos gerentes de projeto uma ferramenta que poderá ser-lhes útil para o aprimoramento de suas atividades, de modo a melhorar processos e maximizar resultados, mesmo que não ligados diretamente à área espacial.

This book constitutes the refereed proceedings of the 6th International Conference, SENSORNETS 2017, Porto, Portugal, held in February 2017, and the 7th International Conference, SENSORNETS 2018, Funchal, Madeira, Portugal, held in January 2018. The 18 full papers presented were carefully reviewed and selected from 67 submissions. The papers cover the following topics: sensor networks, including hardware of sensor networks, wireless communication protocols, sensor networks software and architectures, wireless information networks, data manipulation, signal processing, localization and object tracking through sensor networks, obstacles, applications and uses.

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Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) Part III November 2005DIANE PublishingIndex of Specifications and StandardsDepartment Of Defense Index of Specifications and Standards Alphabetical Listing Part I July 2005DIANE PublishingCTIA: Consolidated Treaties and International Agreements 2008 Volume VIssued March 2010

Traditional tactical communications systems consist of a number of separate subsystems with little interworking between them and with external sensors and weapons systems. Combat net radio (CNR) has provided the high-mobility communications required by combat troops, while trunk communications systems have provided high-capacity communications between headquarters at the expense of mobility. The focus of this book is on new, information-age technologies that promise to offer seamless integration of real-time data sharing, creating a single logical network architecture to facilitate the movement of data throughout the battlespace. Because the structure of this network is constrained by the fundamental trade-off between range, mobility and capacity that applies to all communications systems, this network is unlikely to be based on a single network technology. This book presents an architecture for this network, and shows how its subsystems can be integrated to form a single logical network.

This book contains a collection of innovative chapters emanating from topics raised during the 5th KES International Conference on Intelligent Decision Technologies (IDT), held during 2013 at Sesimbra, Portugal. The authors were invited to expand their original papers into a plethora of innovative chapters espousing IDT methodologies and applications.

This book documents leading-edge contributions, representing advances in Knowledge-Based and Intelligent Information and Engineering System. It acknowledges that researchers recognize that society is familiar with modern Advanced Information Processing and increasingly expect richer IDT systems. Each chapter concentrates on the theory, design, development, implementation, testing or evaluation of IDT techniques or applications. Anyone that wants to work with IDT or simply process knowledge should consider reading one or more chapters and focus on their technique of choice. Most readers will benefit from reading additional chapters to access alternative technique that often represent alternative approaches. This book is suitable for anyone interested in or already working with IDT or Intelligent Decision Support Systems. It is also suitable for students and researchers seeking to learn more about modern Artificial Intelligence and Computational Intelligence techniques that support decision-making in modern computer systems.

The TMS 2016 Annual Meeting Supplemental Proceedings is a collection of papers from the TMS 2016 Annual Meeting & Exhibition, held February 14-18 in Nashville, Tennessee, USA. The papers in this volume represent 21 symposia from the meeting. This volume, along with the other proceedings volumes published for the meeting, and archival journals, such as Metallurgical and Materials Transactions and Journal of Electronic Materials, represents the available written record of the 67 symposia held at TMS2016. This proceedings volume contains both edited and unedited papers; the unedited papers have not necessarily been reviewed by the symposium organizers and are presented "as is." The opinions and statements expressed within the papers are those of the individual authors only, and no confirmations or endorsements are intended or implied.

This book constitutes the proceedings of the 6th European Conference on Modelling Foundations and Applications, held in Paris, France, in June 2010.

The rapid evolution of technical capabilities in the systems engineering (SE) community requires constant clarification of how to answer the following questions: What is Systems Architecture? How does it relate to Systems Engineering? What is the role of a Systems Architect? How should Systems Architecture be practiced? A perpetual reassessment of concepts and practices is taking place across various systems disciplines at every level in the SE community. Architecture and Principles of Systems Engineering addresses these integral issues and prepares you for changes that will be occurring for years to come. With their simplified discussion of SE, the authors avoid an overly broad analysis of concepts and terminology. Applying their substantial experience in the academic, government, and commercial R&D sectors, this book is organized into detailed sections on: Foundations of Architecture and Systems Engineering Modeling Languages, Frameworks, and Graphical Tools Using Architecture Models in Systems Analysis and Design Aerospace and Defense Systems Engineering Describing ways to improve methods of reasoning and thinking about architecture and systems, the text integrates concepts, standards, and terminologies that embody emerging model-based approaches but remain rooted in the long-standing practices of engineering, science, and mathematics. With an emphasis on maintaining conceptual integrity in system design, this text describes succinct practical approaches that can be applied to the vast array of issues that readers must resolve on a regular basis. An exploration of the important questions above, this book presents the authors' invaluable experience and insights regarding the path to the future, based on what they have seen work through the power of model-based approaches to architecture and systems engineering.

Link 16 is a Communications, Navigation and Identification (CNI) system, intended to exchange surveillance and Command and Control (C2) information among various C2 and weapons platforms, which enhance the missions of each service. Link 16 is the primary NATO standard for the tactical datalink. NATO STANAG 5516/MIL-STD-6016C describes the TADIL J message formats and Link 16 network instructions. A protocol for simulating Link 16 in Distributive Interactive Simulation (DIS) and High Level Architecture (HLA) is in process of becoming a Simulation Interoperability Standards Organization (SISO) standard: SISO-STD-002-V2.9.6. The standard is scheduled to begin formal balloting in April 2005. The Air Force Distributed Mission Operations Center of Excellence (DMOC) located at Kirtland AFB, New Mexico, has implemented the Distributed Interactive Simulation (DIS) portion of SISO-STD-002- V2.8. In addition, Northrop Grumman has implemented the Draft Link 16 Simulation Standard protocol on its Common Connection Device (CCD), and one such device is at the DMOC. The software followed the draft standard and modified the DIS Transmitter and Signal Protocol Data Units (PDUs) for Fidelity Levels 0 - 3. During the DIS standard implementation, valuable lessons on the design were provided to the SISO Standards Group, as well as recommended changes to the standard. Two tests and one experiment, which incorporated the changes to the Link 16 standard, were conducted at the DMOC. The tests and experiment objectives were to verify and validate the DIS portion of the standard. The first test was conducted the week of 9 Dec 2002, the second the week of 24 Feb 2003. The experiment was conducted during the JEFX 04 SPIRAL 3 Test, 17 26 May 2004. This paper presents the test results, experiment results, and lexicon of the Link 16 standard, in an effort to increase interoperability among C2 systems.

This book constitutes the thoroughly refereed post-proceedings of the 13th International Monterey Workshop on Composition of Embedded Systems: Scientific and Industrial Issues, held in Paris, France, in October 2006. The 12 revised full papers presented were carefully selected during two rounds of reviewing and improvement from numerous submissions. The workshop discussed a range of challenges in embedded systems design that require further major advances in technology.

Consolidated Treaties of International Agreements is the only up-to-date publication available that offers the full-text coverage of all new treaties and international agreements to which the United States is a party. Treaties that have been formally ratified but not officially published, aswell as those pending ratification, are included to guarantee the most comprehensive treaty information available. Executive agreements that have been made available by the Department of State in the previous year are also included. A unique and thorough indexing system, with indices appearing ineach volume, allows quick and easy access to treaties.

Vols. for 1970-71 includes manufacturers' catalogs.