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Modeling and Simulation-Based Data Engineering Bernard P. Zeigler, Phillip E Hammonds, 2007-08-07 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 interoperability 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 hierarchical 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 Advances and Applications of DSmT for Information Fusion, Vol. IV Florentin Smarandache, Jean Dezert, 2015-03-01 The fourth volume on Advances and Applications of Dezert Smarandache Theory DSmT for information fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics The contributions see List of Articles published in this book at the end of the volume have been published or presented after disseminating the third volume 2009 http fs gallup unm edu DSmT book3 pdf ininternational conferences seminars workshops and journals

Advances and Applications of DSmT for Information Fusion, Vol. 3 Florentin Smarandache, Jean Dezert, 2004 This volume has about 760 pages split into 25 chapters from 41 contributors First part of this book presents advances of Dezert Smarandache Theory DSmT which is becoming one of the most comprehensive and flexible fusion theory based on belief

functions It can work in all fusion spaces power set hyper power set and super power set and has various fusion and conditioning rules that can be applied depending on each application Some new generalized rules are introduced in this volume with codes for implementing some of them For the qualitative fusion the DSm Field and Linear Algebra of Refined Labels FLARL is proposed which can convert any numerical fusion rule to a qualitative fusion rule When one needs to work on a refined frame of discernment the refinement is done using Smarandache's algebraic codification New interpretations and implementations of the fusion rules based on sampling techniques and referee functions are proposed including the probabilistic proportional conflict redistribution rule A new probabilistic transformation of mass of belief is also presented which outperforms the classical pignistic transformation in term of probabilistic information content The second part of the book presents applications of DSmT in target tracking in satellite image fusion in snow avalanche risk assessment in multi biometric match score fusion in assessment of an attribute information retrieved based on the sensor data or human originated information in sensor management in automatic goal allocation for a planetary rover in computer aided medical diagnosis in multiple camera fusion for tracking objects on ground plane in object identification in fusion of Electronic Fusion of identification information from Support Measures allegiance report in map regenerating forest stands etc ELINT-ESM sensors Tadeusz Pietkiewicz, Bronisław Wajszczyk, This paper presents a method of fusion of identification attribute information provided by ELINT ESM sensors Electronic Intelligence Electronic Support Measures In the first section the basic taxono my of attribute identification in accordance with the standards of STANAG 1241 ed 5 and STANAG 1241 ed 6 draft is adopted Advances and Applications of DSmT for Information Fusion. Collected Works, Volume 5 Florentin Smarandache, Jean Dezert, Albena Tchamova, This fth volume on Advances and Applications of DSmT for Information Fusion collects theoretical and applied contributions of researchers working in different elds of applications and in mathematics and is available in open access The collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs unm edu DSmT book4 pdf or www onera fr sites default les 297 2015 DSmT Book4 pdf in international conferences seminars workshops and journals or they are new The contributions of each part of this volume are chronologically ordered First Part of this book presents some theoretical advances on DSmT dealing mainly with modi ed Proportional Con ict Redistribution Rules PCR of combination with degree of intersection coarsening techniques interval calculus for PCR thanks to set inversion via interval analysis SIVIA rough set classi ers canonical decomposition of dichotomous belief functions fast PCR fusion fast inter criteria analysis with PCR and improved PCR5 and PCR6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their Matlab codes Because more applications of DSmT have emerged in the past years since the apparition of the fourth book of DSmT in 2015 the second part of this volume is about selected applications of DSmT mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent

protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection GPS systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identi cation of maritime vessels fusion of support vector machines SVM Silx Furtif RUST code library for information fusion including PCR rules and network for ship classi cation Finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 These contributions are related with decision making under uncertainty belief approximations probability transformations new distances between belief functions non classical multi criteria decision making problems with belief functions generalization of Bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classi cation and hybrid techniques mixing deep learning with belief functions as well Attribute information evaluation in C&C systems Ksawery Krenc, Adam Kawalec, This chapter describes what particular pieces of information about a source should be taken into account in order to get a reasonable assessment of an attribute information retrieved based on the sensor data or human originated information It has been proven that actual sensor weights and hypotheses masses do not change randomly but they vary in time according to tracked target motion however not directly to the target position It is postulated that the knowledge about target position only is insu cient and at least two dynamical coordinates target state vectors are required to re ect the target orientation which has an in uence on actual hypotheses assessment formed on the basis of the sensor data or visual sightings

Advances and Applications of DSmT for Information Fusion. Collected Works, Volume 4 Florentin Smarandache, Jean Dezert, 2015-07-01 The fourth volume on Advances and Applications of Dezert Smarandache Theory DSmT for information fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics The contributions have been published or presented after disseminating the third volume 2009 http fs gallup unm edu DSmT book3 pdf in international conferences seminars workshops and journals Sensor Networks César Benavente-Peces, Nancy Cam-Winget, Eric Fleury, Andreas Ahrens, 2019-09-10 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

Fusion of Identification Information from ESM Sensors and Radars Using

Dezert-Smarandache Theory Rules Tadeusz Pietkiewicz, 2023-01-01 This paper presents a method of fusion of

identification attribute information provided by two types of sensors combined primary and secondary IFF surveillance radars and ESM Electronic Support measures In the first section the basic taxonomy of attribute identification is adopted in accordance with the standards of STANAG 1241 ed 5 and STANAG 1241 ed 6 draft These standards provide the following basic values of the attribute identifications FRIEND HOSTILE NEUTRAL UNKNOWN and additional values ASSUMED FRIEND and SUSPECT The basis of theoretical considerations is Dezert Smarandache theory DSmT of inference The paper presents and practically uses for combining identification information from different ESM sensors and radars six information fusion rules proposed by DSmT the Proportional Conflict Redistribution rules PCR1 PCR2 PCR3 PCR4 PCR5 and PCR6 In the paper rules of determining attribute information by ESM sensor equipped with the data base of radar emitters are presented It was proposed that each signal vector sent by the ESM sensor contained an extension specifying a randomized identification declaration hypothesis basic belief assignment BBA The paper also presents a model for determining the basic belief assignment for a combined primary and secondary radar Results of the PCR rules of sensor information combining for different scenarios of radio electronic situation deterministic and Monte Carlo are presented in the final part of the paper They confirm the legitimacy of the use of Dezert Smarandache theory into information fusion for primary radars secondary radars and ESM sensors **Defense Data Systems** Germany, 1998 **Treaties and Other International Acts Series** .1946 Sensor Data Fusion and Integration of the Human Element ,1999 Practical Seal Design Martini, 2018-05-04 This compact on the job handbook provides all the practical and theoreticalinformation to design elastomeric O ring seals for the full range of static reciprocating and rotary functions Complete with fully illustrated detailed examples to guide you step bystepthrough virtually every seal design situation Practical Seal Designprovides thorough coverage of ring seal geometry material compoundcapability material performance and design methods detailed designconsiderations including stretch swell shrinkage and blowout prevention as well as innovations to extend seal life span and minimize systemhysteresis unmatched treatment of piston cylinder seal and shaft sealdesign and clearly elucidated specifications for military aerospace andindustrial standards With quick access features to facilitate prompt proper and effective design Practical Seal Design is an essential single source reference for mechanical manufacturing industrial automotive aeronautical and ocean engineers Furthermore this one of a kind work is an excellent reference text forprofessional seminars on hydrodynamic pneumatic and mechanicalengineering systems and undergraduate mechanical design courses **Electronic Warfare** J. P. R. Browne, Michael T. Thurbon, 1998 Part of the Brassey's Air Power series this book fully assesses the role of electronic warfare in the air with the story of its development and initial applications together with a look at the nature of the technology involved Wehrtechnik ,1989

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