

GENERAL SYSTEMS

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Edited by

ANATOL RANOFORT

General Systems Volume

Francisco Parra-Luna



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Performance, Reliability, and Availability Evaluation of Computational Systems, Volume 2 Paulo Romero Martins Maciel, 2023-03-06 This textbook intends to be a comprehensive and substantially self contained two volume book covering performance reliability and availability evaluation subjects The volumes focus on computing systems although the methods may also be applied to other systems The first volume covers Chapter 1 to Chapter 14 whose subtitle is Performance Modeling and Background The second volume encompasses Chapter 15 to Chapter 25 and has the subtitle Reliability and Availability Modeling Measuring and Workload and Lifetime Data Analysis This text is helpful for computer performance professionals for supporting planning design configuring and tuning the performance reliability and availability of computing systems Such professionals may use these volumes to get acquainted with specific subjects by looking at the particular chapters Many examples in the textbook on computing systems will help them understand the concepts covered in each chapter The text may also be helpful for the instructor who teaches performance reliability and availability evaluation subjects Many possible threads could be configured according to the interest of the audience and the duration of the course Chapter 1 presents a good number of possible courses programs that could be organized using this text Volume II is composed of the last two parts Part III examines reliability and availability modeling by covering a set of fundamental notions definitions redundancy procedures and modeling methods such as Reliability Block Diagrams RBD and Fault Trees FT with the respective evaluation methods adopts Markov chains Stochastic Petri nets and even hierarchical and heterogeneous modeling to represent more complex systems Part IV discusses performance measurements and reliability data analysis It first depicts some basic measuring mechanisms applied in computer systems then discusses workload generation After we examine failure monitoring and fault injection and finally we discuss a set of techniques for reliability and maintainability data analysis

Advances and Applications of DSMT for Information Fusion (Collected Works. Volume 5) Florentin Smarandache, Jean Dezert, Albena Tchamova, 2023-12-27 This fifth volume on Advances and Applications of DSMT for Information Fusion collects theoretical and applied contributions of researchers working in different fields 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/DSMTbook4.pdf or www.onera.fr/sites/default/files/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 modified Proportional Conflict 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 classifiers 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 identification of maritime vessels fusion of support vector machines SVM Silx Furtif RUST code library for information fusion including PCR rules and network for ship classification 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 classification and hybrid techniques mixing deep learning with belief functions as well We want to thank all the contributors of this fifth volume for their research works and their interests in the development of DSMT and the belief functions We are grateful as well to other colleagues for encouraging us to edit this fifth volume and for sharing with us several ideas and for their questions and comments on DSMT through the years We thank the International Society of Information Fusion www.isif.org for diffusing main research works related to information fusion including DSMT in the international fusion conferences series over the years Florentin Smarandache is grateful to The University of New Mexico U S A that many times partially sponsored him to attend international conferences workshops and seminars on Information Fusion Jean Dezert is grateful to the Department of Information Processing and Systems DTIS of the French Aerospace Lab Office National d Etudes et de Recherches Aeronautiques Palaiseau France for encouraging him to carry on this research and for its financial support Albena Tchamova is first of all grateful to Dr Jean Dezert for the opportunity to be involved during more than 20 years to follow and share his smart and beautiful visions and ideas in the development of the powerful Dezert Smarandache Theory for data fusion She is also grateful to the Institute of Information and Communication Technologies Bulgarian Academy of Sciences for sponsoring her to attend international conferences on Information Fusion

Systems Science and Cybernetics - Volume II Francisco Parra-Luna, 2009-10-30 The subject Systems sciences and cybernetics is the outcome of the convergence of a number of trends in a larger current of thought devoted to the growing complexity of primarily social objects and arising in response to the need for globalized treatment of such objects This has been magnified by the proliferation and publication of all manner of quantitative scientific data on such objects advances in the theories on their inter relations the enormous computational

capacity provided by IT hardware and software and the critical revisiting of subject object interaction not to mention the urgent need to control the efficiency of complex systems where efficiency is understood to mean the ability to find a solution to many social problems including those posed on a planetary scale The result has been the forging of a new academically consolidated scientific trend going by the name of Systems Theory and Cybernetics with a comprehensive multi disciplinary focus and therefore apt for understanding realities still regarded to be inescapably chaotic This subject entry is subdivided into four sections The first an introduction to systemic theories addresses the historic development of the most commonly used systemic approaches from new concepts such as the so called geometry of thinking or the systemic treatment of non systemic identities to the taxonomic entropic axiological and ethical problems deriving from a general systemic cybernetic conceit Hence the focus in this section is on the historic and philosophical aspects of the subject Moreover it may be asserted today that beyond a shadow of a doubt problems in particular problems deriving from human interaction but in general any problem regardless of its nature must be posed from a systemic perspective for otherwise the obstacles to their solution are insurmountable Reaching such a perspective requires taking at least the following well known steps a statement of the problem from the determinant variables or phenomena b adoption of theoretical models showing the interrelationships among such variables c use of the maximum amount of wherever possible quantitative information available on each d placement of the set of variables in an environment that inevitably pre determines the problem That epistemology would explain the substantial development of the systemic cybernetic approach in recent decades The articles in the second section deal in particular with the different methodological approaches developed when confronting real problems from issues that affect humanity as a whole to minor but specific questions arising in human organizations Certain sub themes are discussed by the various authors always from a didactic vantage including problem discovery and diagnosis and development of the respective critical theory the design of ad hoc strategies and methodologies the implementation of both qualitative soft system methodologies and formal and quantitative such as the General System Problem Solver or the axiological operational perspective approaches cross disciplinary integration and suitable methods for broaching psychological cultural and socio political dynamisms The third section is devoted to cybernetics in the present dual meaning of the term on the one hand control of the effectiveness of communication and actions and on the other the processes of self production of knowledge through reflection and the relationship between the observing subject and the observed object when the latter is also observer and the former observed Known as second order cybernetics this provides an avenue for rethinking the validity of knowledge such as for instance when viewed through what is known as bipolar feedback processes through which interactions create novelty complexity and diversity Finally the fourth section centres around artificial and computational intelligence addressing sub themes such as neural networks the simulated annealing that ranges from statistical thermodynamics to combinatorial problem solving such as in the explanation of the role of adaptive systems or when

discussing the relationship between biological and computational intelligence *Systems Science and Cybernetics - Volume I* Francisco Parra-Luna, 2009-10-30 The subject Systems sciences and cybernetics is the outcome of the convergence of a number of trends in a larger current of thought devoted to the growing complexity of primarily social objects and arising in response to the need for globalized treatment of such objects This has been magnified by the proliferation and publication of all manner of quantitative scientific data on such objects advances in the theories on their inter relations the enormous computational capacity provided by IT hardware and software and the critical revisiting of subject object interaction not to mention the urgent need to control the efficiency of complex systems where efficiency is understood to mean the ability to find a solution to many social problems including those posed on a planetary scale The result has been the forging of a new academically consolidated scientific trend going by the name of Systems Theory and Cybernetics with a comprehensive multi disciplinary focus and therefore apt for understanding realities still regarded to be inescapably chaotic This subject entry is subdivided into four sections The first an introduction to systemic theories addresses the historic development of the most commonly used systemic approaches from new concepts such as the so called geometry of thinking or the systemic treatment of non systemic identities to the taxonomic entropic axiological and ethical problems deriving from a general systemic cybernetic conceit Hence the focus in this section is on the historic and philosophical aspects of the subject Moreover it may be asserted today that beyond a shadow of a doubt problems in particular problems deriving from human interaction but in general any problem regardless of its nature must be posed from a systemic perspective for otherwise the obstacles to their solution are insurmountable Reaching such a perspective requires taking at least the following well known steps a statement of the problem from the determinant variables or phenomena b adoption of theoretical models showing the interrelationships among such variables c use of the maximum amount of wherever possible quantitative information available on each d placement of the set of variables in an environment that inevitably pre determines the problem That epistemology would explain the substantial development of the systemic cybernetic approach in recent decades The articles in the second section deal in particular with the different methodological approaches developed when confronting real problems from issues that affect humanity as a whole to minor but specific questions arising in human organizations Certain sub themes are discussed by the various authors always from a didactic vantage including problem discovery and diagnosis and development of the respective critical theory the design of ad hoc strategies and methodologies the implementation of both qualitative soft system methodologies and formal and quantitative such as the General System Problem Solver or the axiological operational perspective approaches cross disciplinary integration and suitable methods for broaching psychological cultural and socio political dynamisms The third section is devoted to cybernetics in the present dual meaning of the term on the one hand control of the effectiveness of communication and actions and on the other the processes of self production of knowledge through reflection and the relationship between the observing subject and the observed object when the latter is also

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Neutrosophic Sets and Systems, Vol. 88, 2025 Florentin Smarandache, Mohamed Abdel-Basset, Maikel Leyva Vazquez, This volume of Neutrosophic Sets and Systems presents a collection of papers focused on the advanced studies and applications of neutrosophy neutrosophic set neutrosophic logic and neutrosophic statistics The research explores how these concepts generalize classical logic and fuzzy sets by incorporating a degree of indeterminacy The articles within this issue apply these theories to a wide range of fields including digital media art design decolonial thought rural legal aid education informatization public landscape design and cross border digital marketing The works demonstrate the use of neutrosophic frameworks to model complex uncertain and contradictory data offering new methods for decision making and problem solving in various domains

Performance, Reliability, and Availability Evaluation of Computational Systems, Volume I Paulo Romero Martins Maciel, 2023-04-06

This textbook intends to be a comprehensive and substantially self contained two volume book covering performance reliability and availability evaluation subjects The volumes focus on computing systems although the methods may also be applied to other systems The first volume covers Chapter 1 to Chapter 14 whose subtitle is Performance Modeling and Background The second volume encompasses Chapter 15 to Chapter 25 and has the subtitle Reliability and Availability Modeling Measuring and Workload and Lifetime Data Analysis This text is helpful for computer performance professionals for supporting planning design configuring and tuning the performance reliability and availability of computing systems Such professionals may use these volumes to get acquainted with specific subjects by looking at the particular chapters Many examples in the textbook on computing systems will help them understand the concepts covered in each chapter The text may also be helpful for the instructor who teaches performance reliability and availability evaluation subjects Many possible threads could be configured according to the interest of the audience and the duration of the course Chapter 1 presents a good number of possible courses programs that could be organized using this text Volume I is composed of the first two parts besides Chapter 1 Part I gives the knowledge required for the subsequent parts of the text This part includes six chapters It covers an introduction to probability descriptive statistics and exploratory data analysis random variables moments covariance some helpful discrete and continuous random variables Taylor series inference methods distribution fitting regression interpolation data scaling distance measures and some clustering methods Part II presents methods for performance evaluation modeling such as operational analysis Discrete Time Markov Chains DTMC and Continuous Time

Markov Chains CTMC Markovian queues Stochastic Petri nets SPN and discrete event 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> in international conferences seminars workshops and journals

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 **Collected Papers.**

Volume VIII Florentin Smarandache, 2022-04-01 This eighth volume of Collected Papers includes 75 papers comprising 973 pages on theoretic and applied neutrosophics written between 2010-2022 by the author alone or in collaboration with the following 102 co-authors alphabetically ordered from 24 countries Mohamed Abdel Basset Abdullah Gamal Firoz Ahmad Ahmad Yusuf Adhami Ahmed B Al Nafee Ali Hassan Mumtaz Ali Akbar Rezaei Assia Bakali Ayoub Bahnasse Azeddine Elhassouny Durga Banerjee Romualdas Bausys Mircea Bocean Traian Alexandru Buda Bui Cong Cuong Emilia Calefariu Ahmet Evik Chang Su Kim Victor Christianto Dae Wan Kim Daud Ahmad Arindam Dey Partha Pratim Dey Mamouni Dhar H A Elagamy Ahmed K Essa Sudipta Gayen Bibhas C Giri Daniela Gafu Noel Batista Hernandez Hojjatollah Farahani Huda E Khalid Irfan Deli Saeid Jafari Tamer Gbolunja Jayol Sripati Jha Sudan Jha Ilanthenral Kandasamy W B Vasanth Kandasamy Darjan Karabac M Karthika Kawther F Alhasan Giruta Kazakeviciute Januskeviciene Qaisar Khan Kishore Kumar P K Prem Kumar Singh Ranjan Kumar Maikel Leyva Vazquez Mahmoud Ismail Tahir Mahmood Hafsa Masood Malik Mohammad Abobala Mai Mohamed Gunasekaran Manogaran Seema Mehra Kalyan Mondal Mohamed Talea Mullai Murugappan Muhammad Akram Muhammad Aslam Malik Muhammad Khalid Mahmood Nivetha Martin Durga Nagarajan Nguyen Van Dinh Nguyen Xuan Thao Lewis Nkenyereya Jagan M Obbineni M Parimala S K Patro Peide Liu Pham Hong Phong Surapati Pramanik Gyanendra Prasad Joshi Quek Shio Gai R Radha A A Salama S Satham Hussain Mehmet Ahin Said Broumi Ganeshsree Selvachandran Selvaraj Ganesan Shahbaz Ali Shouzen Zeng Manjeet Singh A Stanis Arul Mary Dragi Stanujki Yusuf Uba Rui Pu Tan Mirela Teodorescu Seluk Topal Zenonas Turskis Vakkas Uluay Norberto Valcárcel Izquierdo V Venkateswara Rao Volkan Duran Ying Li Young Bae Jun Wadei F Al Omeri Jianqiang Wang Lihshing Leigh Wang Edmundas Kazimieras Zavadskas **Neutrosophic Sets and Systems, Vol. 86, 2025** Florentin Smarandache, Mohamed

Abdel-Basset, Maikel Leyva Vazquez, This volume of Neutrosophic Sets and Systems is an international journal in information

science and engineering that features publications on advanced studies in neutrosophy neutrosophic sets neutrosophic logic and neutrosophic statistics The document states that neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra The theory considers every notion along with its opposite and a spectrum of neutralities in between them The included papers demonstrate applications of these concepts in various fields such as optimizing teaching quality in English translation programs evaluating intangible cultural heritage for tourism analyzing green policy dynamics in coal mining modeling the impact of exercise on mental health and evaluating competitiveness in the power and electronics technology industry The journal is indexed in databases such as SCOPUS and Google Scholar

Catalog of Publications United States. Department of Health, Education, and Welfare, **Catalog of Publications - Dept. of Health, Education, and Welfare** United States. Department of Health, Education, and Welfare,1971

Health Planning Reports Corporate Author Index United States. Bureau of Health Planning,1981 Lists citations to the National Health Planning Information Center s collection of health planning literature government reports and studies from May 1975 to January 1980

Modern Political Theory Varma S.P.,1975 Modern Political Theory critically examines the contemporary state of political theory making an assessment of the achievements and limitations of the Behavioural Revolution in its totality and reviews objectively the major paradigms and conceptual frameworks adopted by the discipline The salient features of the contending conceptual models elaborated by leading scholars operating from separate locations and disparate premises have been highlighted and intellectual inter linkages in their works have been traced The book has 3 parts Part I comprises the scope of political science as a discipline Part II deals with the tools and techniques of political analysis Part III delineates mainstreams of contemporary political thought

Technical Abstract Bulletin , **Health planning reports subject index** United States. Health Resources Administration,1979

Health Planning Reports: Subject index. 4 v United States. Health Resources Administration,1978

A Systemic Perspective on Cognition and Mathematics Jeffrey Yi-Lin Forrest,2013-02-28 This book is devoted to the study of human thought its systemic structure and the historical development of mathematics both as a product of thought and as a fascinating case analysis After demonstrating that systems research constitutes the second dimension of modern science the monograph discusses the yoyo model a recent ground breaking development of systems research which has brought forward revolutionary applications of systems research in various areas of the traditional disciplines the first dimension of science After the systemic structure of thought is factually revealed mathematics as a product of thought is analyzed by using the age old concepts of actual and potential infinities In an attempt to rebuild the system of mathematics this volume first provides a new look at some of the most important paradoxes which have played a crucial role in the development of mathematics in proving what these paradoxes really entail Attention is then turned to constructing the logical foundation of two different systems of mathematics one assuming that actual infinity is different than potential infinity and the other that these infinities

are the same This volume will be of interest to academic researchers students and professionals in the areas of systems science mathematics philosophy of mathematics and philosophy of science **Neutrosophic Sets and Systems, Vol. I**

Florentin Smarandache, Mumtaz Ali, This volume is a collection of ten papers written by different authors and co authors listed in the order of the papers F Smarandache Jun Ye M Shabir M Ali M Naz F Yuhua A A Salama S Vladutescu Y Guo A Sengur S Broumi P Chi and P Liu In first paper the author proposed Neutrosophic Measure and neutrosophic Integral Another Form of Correlation Coefficient between Single Valued Neutrosophic Sets and Multiple Attribute Decision Making Method is proposed in the second paper Soft Neutrosophic Group is studied in third paper In fourth paper Neutrosophic Example in Physics is discussed Similarly in fifth paper Filters via Neutrosophic Crisp Sets are discussed In paper six Communication vs Information an Axiomatic Neutrosophic Solution is presented by the authors A Novel Image Segmentation Algorithm Based on Neutrosophic Filtering and Level Set is given in seventh paper Paper eight is about to Neutrosophic Crisp Points and Neutrosophic Crisp Ideals In the next paper Several Similarity Measures of Neutrosophic Sets are discussed The authors introduced An Extended TOPSIS Method for the Multiple Attribute Decision Making Problems Based on Interval Neutrosophic Sets in the last paper Health planning reports title index United States. Bureau of Health Planning, 1981

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