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Vahid Dabbaghian
Vijay Kumar Mago *Editors*

Theories and Simulations of Complex Social Systems

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Theories And Simulations Of Complex Social Systems Intelligent Systems Reference Library

**Anthony Lewis Brooks, Sheryl
Brahman, Bill Kapralos, Amy
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Theories And Simulations Of Complex Social Systems Intelligent Systems Reference Library:

Theories and Simulations of Complex Social Systems Vahid Dabbaghian,Vijay Kumar Mago,2013-10-27 Research into social systems is challenging due to their complex nature Traditional methods of analysis are often difficult to apply effectively as theories evolve over time This can be due to a lack of appropriate data or too much uncertainty It can also be the result of problems which are not yet understood well enough in the general sense so that they can be classified and an appropriate solution quickly identified Simulation is one tool that deals well with these challenges fits in well with the deductive process and is useful for testing theory This field is still relatively new and much of the work is necessarily innovative although it builds upon a rich and varied foundation There are a number of existing modelling paradigms being applied to complex social systems research Additionally new methods and measures are being devised through the process of conducting research We expect that readers will enjoy the collection of high quality research works from new and accomplished researchers

Advances in Computational Intelligence Sudip Kumar Sahana,Vandana Bhattacharjee,2019-07-10 This book presents the proceedings of the International Conference on Computational Intelligence 2018 ICCI 2018 It brings together work by leading scientists researchers and research scholars from around the globe on all aspects of computational intelligence The work is mainly composed of the original and unpublished results of conceptual constructive empirical experimental or theoretical work in all areas of computational intelligence Specifically the major topics covered include classical computational intelligence models and artificial intelligence neural networks and deep learning evolutionary swarm and particle algorithms hybrid systems optimization constraint programming human machine interaction computational intelligence for web analytics robotics computational neurosciences neurodynamics bioinspired and biomorphic algorithms cross disciplinary topics and applications

Advances in Computing and Data Sciences Mayank Singh,P.K. Gupta,Vipin Tyagi,Jan Flusser,Tuncer Ören,Rekha Kashyap,2019-07-18 This two volume set CCIS 1045 and CCIS 1046 constitutes the refereed proceedings of the Third International Conference on Advances in Computing and Data Sciences ICACDS 2019 held in Ghaziabad India in April 2019 The 112 full papers were carefully reviewed and selected from 621 submissions The papers are centered around topics like advanced computing data sciences distributed systems organizing principles development frameworks and environments software verification and validation computational complexity and cryptography machine learning theory database theory probabilistic representations

Participatory Sensing, Opinions and Collective Awareness Vittorio Loreto,Muki Haklay,Andreas Hotho,Vito D.P. Servedio,Gerd Stumme,Jan Theunis,Francesca Tria,2016-05-13 This book introduces and reviews recent advances in the field in a comprehensive and non technical way by focusing on the potential of emerging citizen science and social computation frameworks coupled with the latest theoretical and modeling tools developed by physicists mathematicians computer and social scientists to analyse interpret and visualize complex data sets There is overwhelming evidence that the current organisation of our economies and

societies is seriously damaging biological ecosystems and human living conditions in the short term with potentially catastrophic effects in the long term The need to re organise the daily activities with the greatest impact energy consumption transport housing towards a more efficient and sustainable development model has recently been raised in the public debate on several global environmental issues Above all this requires the mismatch between global societal and individual needs to be addressed Recent advances in Information and Communication Technologies ICT can trigger important transitions at the individual and collective level to achieve this aim Based on the findings of the collaborative research network EveryAware the following developments among the emerging ICT technologies are discussed in depth in this volume Participatory sensing where ICT development is pushed to the level where it can support informed action at the hyperlocal scale providing capabilities for environmental monitoring data aggregation and mining as well as information presentation and sharing Web gaming social computing and internet mediated collaboration where the Web will continue to acquire the status of an infrastructure for social computing allowing users cognitive abilities to be coordinated in online communities and steering the collective action towards predefined goals Collective awareness and decision making where the access to both personal and community data collected by users processed with suitable analysis tools and re presented in an appropriate format by usable communication interfaces leads to a bottom up development of collective social strategies

Modelling Transitions

Enayat A. Moallemi,Fjalar J. de Haan,2019-11-28 Modelling Transitions shows what computational formal and data driven approaches can and could mean for sustainability transitions research presenting the state of the art and exploring what lies beyond Featuring contributions from many well known authors this book presents the various benefits of modelling for transitions research More than just taking stock it also critically examines what modelling of transformative change means and could mean for transitions research and for other disciplines that study societal changes This includes identifying a variety of approaches currently not part of the portfolios of transitions modellers Far from only singing praise critical methodological and philosophical introspection are key aspects of this important book This book speaks to modellers and non modellers alike who value the development of robust knowledge on transitions to sustainability including colleagues in congenial fields Be they students researchers or practitioners everyone interested in transitions should find this book relevant as reference resource and guide

Coronavirus Disease (COVID-19): Psychological Reactions to the Pandemic

Joanna Sokolowska,Peter Ayton,Eduard Brandstätter,2021-10-14 *Intelligent Complex Adaptive Systems* Yang, Ang,Shan, Yin,2008-03-31 This book explores the foundation history and theory of intelligent adaptive systems providing a fundamental resource on topics such as the emergence of intelligent adaptive systems in social sciences biologically inspired artificial social systems sensory information processing as well as the conceptual and methodological issues and approaches to intelligent adaptive systems Provided by publisher

Intelligence Systems in Environmental Management: Theory and Applications

Cengiz Kahraman,İrem Uçal Sari,2016-09-03 This book offers a comprehensive reference guide to

intelligence systems in environmental management It provides readers with all the necessary tools for solving complex environmental problems where classical techniques cannot be applied The respective chapters written by prominent researchers explain a wealth of both basic and advanced concepts including ant colony genetic algorithms evolutionary algorithms fuzzy multi criteria decision making tools particle swarm optimization agent based modelling artificial neural networks simulated annealing Tabu search fuzzy multi objective optimization fuzzy rules support vector machines fuzzy cognitive maps cumulative belief degrees and many others To foster a better understanding all the chapters include relevant numerical examples or case studies Taken together they form an excellent reference guide for researchers lecturers and postgraduate students pursuing research on complex environmental problems Moreover by extending all the main aspects of classical environmental solution techniques to its intelligent counterpart the book presents a dynamic snapshot on the field that is expected to stimulate new directions and stimulate new ideas and developments

Social-Behavioral Modeling for Complex Systems Paul K. Davis, Angela O'Mahony, Jonathan Pfautz, 2019-04-09 This volume describes frontiers in social behavioral modeling for contexts as diverse as national security health and on line social gaming Recent scientific and technological advances have created exciting opportunities for such improvements However the book also identifies crucial scientific ethical and cultural challenges to be met if social behavioral modeling is to achieve its potential Doing so will require new methods data sources and technology The volume discusses these including those needed to achieve and maintain high standards of ethics and privacy The result should be a new generation of modeling that will advance science and separately aid decision making on major social and security related subjects despite the myriad uncertainties and complexities of social phenomena Intended to be relatively comprehensive in scope the volume balances theory driven data driven and hybrid approaches The latter may be rapidly iterative as when artificial intelligence methods are coupled with theory driven insights to build models that are sound comprehensible and usable in new situations With the intent of being a milestone document that sketches a research agenda for the next decade the volume draws on the wisdom ideas and suggestions of many noted researchers who draw in turn from anthropology communications complexity science computer science defense planning economics engineering health systems medicine neuroscience physics political science psychology public policy and sociology In brief the volume discusses Cutting edge challenges and opportunities in modeling for social and behavioral science Special requirements for achieving high standards of privacy and ethics New approaches for developing theory while exploiting both empirical and computational data Issues of reproducibility communication explanation and validation Special requirements for models intended to inform decision making about complex social systems

The Combinatory Systems Theory Piero Mella, 2017-05-11 This study adopts the logic of Systems Thinking and Control Systems presenting a simple but complete theory called the Theory of Combinatory Systems This new theory is able to describe interpret explain simulate and control collective phenomena and their observable effects Despite specific

differences among these phenomena many of which are one way non repeatable or reproducible they can all be described or explained and thus understood using the model as simple as it is general of combinatory systems that is systems formed by collectivities or populations of non connected and unorganized individuals of some species which appear to be directed by an invisible hand that guides the analogous actions of similar individuals in order to produce an emerging collective phenomenon Combinatory Systems function due to the presence of micro control systems which operating at the individual level lead to uniform micro behavior by individuals in order to eliminate the gap with respect to the objective that is represented or revealed by the global information macro behavior or effect The book also examines Combinatory Automata which represent a powerful tool for simulating the most relevant combinatory systems In stochastic combinatory automata when both probabilities and periods of transition of state are agent time state sensitive the probabilistic micro behaviors are conditioned by the macro behavior of the entire system which makes the micro macro feedback more evident The Combinatory Systems Theory Understanding Modeling and Simulating Collective Phenomena is composed of four main chapters Chapter 1 presents the basic ideas behind the theory which are analysed in some detail Chapter 2 describes the heuristic models of several relevant combinatory systems observable in different environments Chapter 3 while not making particular use of sophisticated mathematical and statistical tools presents the Theory of Combinatory Automata and builds models for simulating the operative logic of combinatory systems Chapter 4 tries to answer three questions are combinatory systems systems in the true sense of the term Why is this theory able to explain so many and so varied a number of phenomena even though it is based on a very simple modus operandi Are combinatory systems different than complex systems The book has been written with no prerequisite required to read and understand it in particular math statistics and computer knowledge Complex, Intelligent, and Software Intensive Systems Leonard Barolli, Olivier Terzo, 2017-07-04 This book gathers the proceedings of the 11th International Conference on Complex Intelligent and Software Intensive Systems CISIS 2017 held on June 28 June 30 2017 in Torino Italy Software Intensive Systems are characterized by their intensive interaction with other systems sensors actuators devices and users Further they are now being used in more and more domains e g the automotive sector telecommunication systems embedded systems in general industrial automation systems and business applications Moreover the outcome of web services delivers a new platform for enabling software intensive systems Complex Systems research is focused on the understanding of a system as a whole rather than its components Complex Systems are very much shaped by the changing environments in which they operate and by their multiple internal and external interactions They evolve and adapt through internal and external dynamic interactions The development of Intelligent Systems and agents which invariably involves the use of ontologies and their logical foundations offers a fruitful impulse for both Software Intensive Systems and Complex Systems Recent research in the fields of intelligent systems robotics neuroscience artificial intelligence and cognitive sciences is essential to the future development of and innovations

in software intensive and complex systems The aim of the volume *Complex Intelligent and Software Intensive Systems* is to provide a platform of scientific interaction between the three interwoven and challenging areas of research and development of future Information and Communications Technology ICT enabled applications Software Intensive Systems Complex systems and Intelligent Systems

Recent Advances in Technologies for Inclusive Well-Being Anthony Lewis Brooks, Sheryl Brahman, Bill Kapralos, Amy Nakajima, Jane Tyerman, Lakhmi C. Jain, 2021-03-16 In a time of ongoing pandemic when well being is a priority this volume presents latest works across disciplines associated to Virtual Patients Gamification and Simulation Chapters herein present international perspectives with authors from around the globe contributing to this impactful third edition to the series following a 2014 Springer book on *Technologies for Inclusive Well Being* and a 2017 Springer book *Recent Advances in Technologies for Inclusive Well Being* Digital technologies are pervasive in life and the contributions herein focus on specific attributes and situations especially in training and treatment programmes spanning across ranges of diagnosis conditions ages and targeted impacts This volume purposefully does not cover all even if that was possible aspects on how virtual interactive space can align to statial computing which in turn can align with related embodied entities whatever the terms used e g Virtual Augmented Extended Mixed Realities along with AI Deep Learning etc It also doesn t cover what some may refer to as trendy terms such as 360 degree video WebXR cryptocurrency blockchain virtual goods AR museums travel and teleportation however what is covered in this book and the prior volumes it builds upon as above is a sharing and questioning of advancing technologies for inclusive well being through research and practices from an avant garde perspective

Computer Information Systems and Industrial Management Khalid Saeed, Władysław Homenda, 2016-09-08 This book constitutes the proceedings of the 15th IFIP TC8 International Conference on Computer Information Systems and Industrial Management CISIM 2016 held in Vilnius Lithuania in September 2016 The 63 regular papers presented together with 1 invited paper and 5 keynotes in this volume were carefully reviewed and selected from about 89 submissions The main topics covered are rough set methods for big data analytics images visualization classification optimization tuning scheduling in manufacturing and other applications algorithms decisions intelligent distributed systems and biometrics identification security

Agent-Based Approaches in Economic and Social Complex Systems VIII Yutaka Nakai, Yuhsuke Koyama, Takao Terano, 2015-06-05 Agent based modeling simulation is an emergent approach to the analysis of social and economic systems It provides a bottom up experimental method to be applied to social sciences such as economics management sociology and politics as well as some engineering fields dealing with social activities This book includes selected papers presented at the Eighth International Workshop on Agent Based Approaches in Economic and Social Complex Systems held in Tokyo Japan in 2013 At the workshop 23 reviewed full papers were presented and of those 13 were selected to be included in this volume

Toward Robotic Socially Believable Behaving Systems - Volume II Anna Esposito, Lakhmi C. Jain, 2016-03-29 This volume presents a collection of research studies on sophisticated and functional

computational instruments able to recognize process and store relevant situated interactional signals as well as interact with people displaying reactions under conditions of limited time that show abilities of appropriately sensing and understanding environmental changes producing suitable autonomous and adaptable responses to various social situations These social robotic autonomous systems will improve the quality of life of their end users while assisting them on several needs ranging from educational settings health care assistance communicative disorders and any disorder impairing either their physical cognitive or social functional activities The multidisciplinary themes presented in the volume will be interesting for experts and students coming from different research fields and with different knowledge and backgrounds The research reported is particularly relevant for academic centers and Research Development Institutions

Complexity Measurements and Causation for Dynamic Complex Systems Juan Guillermo Diaz Ochoa, 2025-03-13 This book examines the problems of causal determinism and limited completeness in systems theory Furthermore the author analyzes options for complexity measurements that include systems autonomy and variability for causal inference i e the ability to derive causal relationships from data recorded as a function of time Such complexity measures present limitations in the derivation of absolute causality in complex systems and the recognition of relative and contextual causality with practical consequences for causal inference and modeling Finally the author provides concepts for relative causal determinism As a result new ideas are presented to explore the frontiers of systems theory specifically in relation to biological systems and teleonomy i e evolved biological purposiveness This book is written for graduate students in physics biology medicine social sciences economics and engineering who are seeking new concepts of causal inference applied in systems theory It is also intended for scientists with an interest in philosophy and philosophers interested in the foundations of systems theory Additionally data scientists seeking new methods for the analysis of time series to extract features useful for machine learning will find this book of interest

Advances in Practical Applications of Agents, Multi-Agent Systems, and Social Good. The PAAMS Collection Frank Dignum, Juan Manuel Corchado, Fernando De La Prieta, 2021-09-24 This book constitutes the proceedings of the 19th International Conference on Practical Applications of Agents and Multi Agent Systems PAAMS 2021 held in Salamanca Spain in October 2021 The 27 regular and 13 short papers presented in this volume were carefully reviewed and selected from 56 submissions They deal with the application and validation of agent based models methods and technologies in a number of key applications areas including advanced models and learning agent based programming decision making education and social interactions formal and theoretic models health and safety mobility and the city swarms and task allocation

Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering Alex Gorod, Brian E. White, Vernon Ireland, S. Jimmy Gandhi, Brian Sauser, 2014-07-01 Suitable as a reference for industry practitioners and as a textbook for classroom use Case Studies in System of Systems Enterprise Systems and Complex Systems Engineering provides a clear understanding of the principles and practice of system of systems engineering SoSE enterprise systems

engineering ESE and complex systems engineering C *Euro-Par 2013: Parallel Processing Workshops* Dieter an Mey, Michael Alexander, Bientinesi Paolo, Mario Cannataro, Carsten Clauss, Alexandru Costan, Gabor Kecskemeti, Christine Morin, Laura Ricci, Julio Sahuquillo, Martin Schulz, Vittorio Scarano, Scott Ostercamp, Josef Weidendorfer, 2014-04-10 This book constitutes thoroughly refereed post conference proceedings of the workshops of the 19th International Conference on Parallel Computing Euro Par 2013 held in Aachen Germany in August 2013 The 99 papers presented were carefully reviewed and selected from 145 submissions The papers include seven workshops that have been co located with Euro Par in the previous years Big Data Cloud Second Workshop on Big Data Management in Clouds Hetero Par 11th Workshop on Algorithms Models and Tools for Parallel Computing on Heterogeneous Platforms HiBB Fourth Workshop on High Performance Bioinformatics and Biomedicine OMHI Second Workshop on On chip Memory Hierarchies and Interconnects PROPER Sixth Workshop on Productivity and Performance Resilience Sixth Workshop on Resiliency in High Performance Computing with Clusters Clouds and Grids UCHPC Sixth Workshop on Un Conventional High Performance Computing as well as six newcomers DIHC First Workshop on Dependability and Interoperability in Heterogeneous Clouds Fed ICI First Workshop on Federative and Interoperable Cloud Infrastructures LSDVE First Workshop on Large Scale Distributed Virtual Environments on Clouds and P2P MHPC Workshop on Middleware for HPC and Big Data Systems PADABS First Workshop on Parallel and Distributed Agent Based Simulations ROME First Workshop on Runtime and Operating Systems for the Many core Era All these workshops focus on promotion and advancement of all aspects of parallel and distributed computing

Handbook of AI-based Metaheuristics Anand J. Kulkarni, Patrick Siarry, 2021-09-01 At the heart of the optimization domain are mathematical modeling of the problem and the solution methodologies The problems are becoming larger and with growing complexity Such problems are becoming cumbersome when handled by traditional optimization methods This has motivated researchers to resort to artificial intelligence AI based nature inspired solution methodologies or algorithms The Handbook of AI based Metaheuristics provides a wide ranging reference to the theoretical and mathematical formulations of metaheuristics including bio inspired swarm based socio cultural and physics based methods or algorithms their testing and validation along with detailed illustrative solutions and applications and newly devised metaheuristic algorithms This will be a valuable reference for researchers in industry and academia as well as for all Master s and PhD students working in the metaheuristics and applications domains

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