



Modelling
Integrated
Socio-technical
Feedback Systems:

e-Democracy and
Other Applications

Bastick & Singh

Modelling Integrated Sociotechnical Feedback Systems Edemocracy And Other Applications

**Maria Franca Norese, María A. De
Vicente y Oliva, Irène Abi-Zeid**



Modelling Integrated Sociotechnical Feedback Systems Edemocracy And Other Applications:

Modelling Integrated Socio-technical Feedback Systems Zach-Amaury Boufoy-Bastick, Lenandlar Singh, 2005-10-01

Computer mediated communication technologies have tended to evolve independently from the social environment of the virtual communities they serve This book analyses some resulting limitations of current implementations of computer mediated communication technology and discusses their inhibiting effects on possible developments of virtual communities A Socio Technical Indicator Model is introduced that utilizes integrated feedback to resolve some of these limitations by describing simulating and operationalising increasing representativeness within a variety of structurally and parametrically diverse systems An illustrative application is described that parameterises virtual communities to function as self transforming social technical systems which are sensitive to emergent and shifting community values as products of on going communications within the collective of which e democracy is an important sub class A simulation is presented of the model s application to representative moderation in virtual communities The simulation demonstrates system conditions for convergence and for status stability of Special Interest Groups that promote differing community values

Systems, Software and Services Process Improvement Rory V. Connor, Jan Pries-Heje, Richard Messnarz, 2011-06-22 This volume constitutes the refereed proceedings of the 18th EuroSPI conference held in Roskilde Denmark in June 2011 The 18 revised full papers presented together with 9 key notes were carefully reviewed and selected They are organized in topical sections on SPI and assessments SPI and implementation SPI and improvement methods SPI organization SPI people teams SPI and reuse selected key notes for SPI implementation

Multicriteria Decision Aiding Interventions Maria Franca Norese, María A. De Vicente y Oliva, Irène Abi-Zeid, 2023-06-21 This book introduces readers to multicriteria decision aiding MCDA interventions used in complex situations In each chapter expert analysts propose a piece of the puzzle while the final complete puzzle offers an interesting reflection of the main challenges and difficulties associated with decision aiding interventions as well as the different tools adopted in response Particular attention is given to the approaches used to identify and overcome specific difficulties Designed for analysts familiar with several multicriteria methods but seeking detailed information and experience this book helps to elaborate and validate MC models in real life decision aiding interventions In addition it helps novice analysts appreciate the difficulty of decision aiding and use the available methods to reduce or control them with the help of socio technical approaches

Library & Information Science Abstracts, 2004

Modelling Methodology for Assessing the Impact of New Technology on Complex Sociotechnical Systems Rudolph Oosthuizen, 2014 Developing complex sociotechnical systems often involves integrating new technology into existing systems by applying systems engineering processes This requires an understanding of the problem space and the possible impact of the new technology Systems engineering uses modelling to explore the structural functional and operational elements of the problem and solution space Hitchins 2008 Historically systems engineering has however struggled with complex

sociotechnical systems projects as it cannot cope with the dynamic behaviour of complex sociotechnical systems. The hypothesis of this thesis is that addressing the contribution of humans performing work in a complex constrained and dynamic environment using modelling will result in a better understanding. In the analysis phase it should also lead to improved requirements designs, selection of technologies and implementation strategies enabling sociotechnical systems to cope with complex operating environments. A sociotechnical system consists of humans applying technology to perform work through processes within a social structure organisation aimed at achieving a defined objective (Bostrom Heinen 1977, Walker et al 2009). Work can become complex due to non linear and dynamic interaction among the people themselves, among people and technology as well as among people and the environment. Complexity may lead to wicked and messy problems as many unintended or unpredicted consequences may be experienced. The new technology may also lead to new task possibilities that evolve user requirements (Carroll Rosson 1992). Systems engineering as developed in the 1950s forms the basis of developing systems including sociotechnical systems. Classic systems engineering processes assume that problems can be isolated and decomposed making the development of complex sociotechnical systems difficult. One way to improve the success of systems engineering is to ensure that the problem to be solved is properly understood. Analysis of the problem and solution space involves capturing and modelling the knowledge and mental models of the stakeholders to support understanding the system's requirements. A good description of the problem situation through a model is the first step towards designing and developing a solution. The aim of this study is to develop and demonstrate a modelling methodology for complex sociotechnical systems in support of the systems engineering process. The two approaches used in the modelling methodology are cognitive work analysis and system dynamics. Cognitive work analysis is a framework for analysing the way people perform work in an organisation while taking the environmental constraints into consideration. The outputs of cognitive work analysis are constructs or models that capture the structure of the problem. Functions provided by different technological elements are linked to the functional requirements of the system to achieve its purpose (Lintern 2012). However, cognitive work analysis is limited in investigating the dynamic effect of decisions and policies on the system (Cummings 2006). The dynamic behaviour of complex sociotechnical systems can be analysed using system dynamics which uses the structure of the system in simulation. System dynamics analyse the effect of feedback and delays on operating the system as a result of decisions based on policies (Sterman 2000). The design science research framework which also supports the research design of this thesis is used to implement the modelling and structure the methodology. Design science research aims at creating technology for a human purpose unlike the natural sciences which are geared towards attempting to understand and define reality (March Smith 1995). The proposed methodology is demonstrated in a case study using modelling and analysis of the impact of a new collaboration technology on command and control systems. Command and control is a good example of a complex sociotechnical system as humans use technology to assemble and analyse information for situation assessment in

support of planning operations Walker et al 2009 These systems are also used to control the successful implementation of plans in constrained and variable operating environments The modelling methodology is demonstrated by modelling and assessing the effect of a new command and control technology for border safeguarding operations anti poaching operations and community policing forums The new technology to be implemented in these complex sociotechnical systems is called Cmore It is a web based collaboration system that uses smartphones to capture information and track users Even though the three demonstrations constitute similar systems the different contextual situations result in diverse behaviour and issues to be investigated The demonstrations centre on the functions of situation awareness and decision support The different output models for the command and control systems are used in system dynamics simulations to assess the effect of new technology on the operating and effectiveness of a system The case studies demonstrated that the modelling methodology support learning about the implementation of a new technology in various complex sociotechnical systems The developed models and constructs also supported developing evaluation templates during the planning of experiments through identifying key issues The system dynamics simulations used parametric inputs to investigate the behaviour of the system In most cases the simulation outputs identified interesting and counter intuitive behaviour for deeper assessment The community policing forum case study also gathered qualitative empirical evidence on the system s behaviour during a field experiment The outcomes are compared with the models and simulation outputs to improve the system behavioural models The learning and improved understanding of the complex sociotechnical system behaviour gained through the modelling methodology demonstrated its utility

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