

# The relationship between problem-solving behaviour and performance – Analysing tool use and information retrieval in a computer-based office simulation

Sabrina Ludwig  | Andreas Rausch 

Chair of Economic and Business Education –  
Workplace Learning, University of Mannheim,  
Mannheim, Germany

## Correspondence

Sabrina Ludwig, University of Mannheim, Chair  
of Economic and Business Education –  
Workplace Learning, University of Mannheim,  
L 4, L 48161 Mannheim, Germany.  
Email: [sabrina.ludwig@uni-mannheim.de](mailto:sabrina.ludwig@uni-mannheim.de)

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## Abstract

**Background:** Problem-solving competences have evolved into key skills for professionals. Computer-based business simulations enable the analysis of problem-solving processes beyond end results. An important aspect of successful problem-solving is to systematically use built-in tools and process the provided information efficiently.

**Objectives:** This investigation explores the relationship between students' tool use, information retrieval, and problem-solving success in a computerized problem-solving office simulation.

**Methods:** Around 30,000 recorded behavioural log data points of 432 German vocational students were analysed.

**Results and Conclusion:** Distinct user groups are identified and cognitive problem-solving competences are assessed to draw a link between behaviour and performance. An explorative cluster analysis based on student behaviour revealed four clusters. Significant results support the use of two cognitive tools that lead to success. One successful behaviour is using a notepad, a domain-general and voluntary tool. Another successful problem-solving behaviour is the use of a domain-specific and solution-relevant spreadsheet program. Note-taking organizes information and mental processes while the spreadsheet leads to efficient computing. In line with other studies, students with higher problem-solving competences tend to access tools and documents providing information more frequently.

**Takeaways:** Domain-general tool use differs from domain-specific tool use over time. There are two different successful behaviour patterns in complex problem solving. Instructional and simulation designers should provide specific tools to support students as well as tackle problems.

## KEYWORDS

21st-Century Competences, Adult Learning, Cluster Analysis, Cognitive Tools, Educational Data Mining, Log Data, Problem-Solving Competences

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# The Computer Simulation Of Behaviour

**J Rink**



## **The Computer Simulation Of Behaviour:**

**The Computer Simulation of Behaviour** Michael J Apter, 2018-05-15 This book originally published in 1970 concerns the new technique of computer simulation in psychology at the time Computer programs described include models of learning problem solving pattern recognition the use of language and personality More general topics are discussed including the evaluation of such models the relation of the field to cybernetics and the problem posed by consciousness Today it can be read and enjoyed in its historical context [The Computer Simulation of Behaviour](#) Michael J Apter, 2018

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*Computer Simulation of Human Behavior* John M. Dutton, William H. Starbuck, 1971 *Computer Simulation of Dynamic Phenomena* Mark L. Wilkins, 1999-04-01 A description of computer programs for simulating phenomena in hydrodynamics gas dynamics and elastic plastic flow in one two and three dimensions The text covers Maxwell s equations and thermal and radiation diffusion while the numerical procedures described permit the exact conservation of physical properties in the solutions of the fundamental laws of mechanics The author also treats materials including the use of simulation programs to predict material behavior **Computer Simulation of Human Behavior** John M. Dutton, William H. Starbuck, 1971

**Mathematical Modelling and Computer Simulation of Activated Sludge Systems** Jacek Makinia, Ewa Zaborowska, 2020-03-02 Mathematical Modelling and Computer Simulation of Activated Sludge Systems Second Edition provides from the process engineering perspective a comprehensive and up to date overview regarding various aspects of the mechanistic white box modelling and simulation of advanced activated sludge systems performing biological nutrient removal In the new edition of the book a special focus is given to nitrogen removal and the latest developments in modelling the innovative nitrogen removal processes Furthermore a new section on micropollutant removal has been added The focus of modelling has been shifting in the last years to models that can describe the performance of a whole plant plant wide modelling The expanded part of this new edition introduces models describing the most important processes interrelated with the mainstream activated sludge systems as well as models describing the energy balance operating costs and environmental impact The complex process evaluation including minimization of energy consumption and carbon footprint is in line with the present and future wastewater treatment goals By combining a general introduction and a textbook this book serves both intermediate and more experienced model users both researchers and practitioners as a comprehensive guide to modelling and simulation studies The book can be used as a supplemental material at graduate and post graduate levels of wastewater engineering modelling courses **Computer Simulation** Dragan Cvetković, 2017-06-07 The first chapter

provides an overview of the development of a novel agent based simulation model of socio environmental innovation diffusion The second chapter shows the study about rendering of colours with three rendering engines The third and fourth chapters are devoted to modelling clothes at different levels The fifth chapter describes the modelling of computer simulation in the optimization of bioprocess technology Chapters 6 and 7 formulate a physical model of deformation of steel and idea of constructing a scientific workshop focused on high temperature processes Chapter 8 formulates surrogate models Chapter 9 shows computer simulation of high frequency electromagnetic fields Chapter 10 proposes the modelling of the task allocation problem by the use of Petri Nets Chapter 11 presents various scenarios whose ranking is done according to defined criteria and weight coefficients **Computer Simulation of Life-like Behaviour** Alun Rhys Jones, University of Manchester.

Department of Computer Science, 1993 **Computer Simulation of Porous Materials** Kim Jelfs, 2021-08-31 Computer Simulation of Porous Materials covers the key approaches in the modelling of porous materials with a focus on how these can be used for structure prediction and to either rationalise or predict a range of properties including sorption diffusion mechanical spectroscopic and catalytic The book covers the full breadth of micro porous materials from inorganic zeolites to organic including porous polymers and porous molecular materials and hybrid materials metal organic frameworks Through chapters focusing on techniques for specific types of applications and properties the book outlines the challenges and opportunities in applying approaches and methods to different classes of systems including a discussion of high throughput screening There is a strong forward looking focus to identify where increased computer power or artificial intelligence techniques such as machine learning have the potential to open up new avenues of research Edited by a world leader in the field this title provides a valuable resource for not only computational researchers but also gives an overview for experimental researchers It is presented at a level accessible to advanced undergraduates postgraduates and researchers wishing to learn more about the topic **Advances in the Computer Simulations of Liquid Crystals** Paolo Pasini, Claudio Zannoni, 2013-11-11 Computer simulations provide an essential set of tools for understanding the macroscopic properties of liquid crystals and of their phase transitions in terms of molecular models While simulations of liquid crystals are based on the same general Monte Carlo and molecular dynamics techniques as are used for other fluids they present a number of specific problems and peculiarities connected to the intrinsic properties of these mesophases The field of computer simulations of anisotropic fluids is interdisciplinary and is evolving very rapidly The present volume covers a variety of techniques and model systems from lattices to hard particle and Gay Berne to atomistic for thermotropics lyotropics and some biologically interesting liquid crystals Contributions are written by an excellent panel of international lecturers and provides a timely account of the techniques and problems in the field **Collaborative Research Design** Per Vagn Freytag, Louise Young, 2017-09-27 This book articulates and interconnects a range of research methods for the investigation of business management processes It introduces new directions that both recognise the business community as stakeholders

in the research process and seek to include them in that process The book presents a range of contemporary research methods with particular focus on those that allow insights into business managers thoughts and behaviours It includes fresh views on traditional research designs for example new approaches to using literature reviews experiments interviews and observation studies It also considers cutting edge research methods such as the use of vignettes workshops improvisation and theatre as well as computer based simulation In addition to discussing new approaches to data capture and data generation it presents new methods of data analysis by considering various forms of models and modelling new forms of computer aided text analysis and innovative approaches to data display Finally the book provides a link between the philosophical underpinnings of research and the different research methods presented This is often neglected but undertaking the knowledge generating journey that is research includes having a view on reality and marrying this to beliefs about how the reality to be investigated can be best expedited

**Mapping the Posthuman** Grant Hamilton, Carolyn Lau, 2023-12-22 This book works to delineate some of the major routes by which science and art intersect Structured according to the origin myths of the posthuman that continue to shape the idea of the human in our technological modernity this volume gives space to narratives of alter modernity that resonate with Ursula K Le Guin s call for a new kind of story which exposes the violence and exploitation driven by a sustained belief in human exceptionalism anthropocentrism and cultural superiority In this context the posthuman myths of multispecies flourishing given in this collection which are situated across a range of historical times and locations and media and modalities are to be thought of as kernels of possible futures that can only be realized through collective endeavour

Multiscale Computer Modeling in Biomechanics and Biomedical Engineering Amit Gefen, 2014-07-08 This book reviews the state of the art in multiscale computer modeling in terms of both accomplishments and challenges The information in the book is particularly useful for biomedical engineers medical physicists and researchers in systems biology mathematical biology micro biomechanics and biomaterials who are interested in how to bridge between traditional biomedical engineering work at the organ and tissue scales and the newer arenas of cellular and molecular bioengineering

**Motor Control and Sensory-Motor Integration** D.J. Glencross, J.P. Piek, 1995-11-02 This volume evolved from a workshop which addressed the general area of motor control and the broader problems of serial organisation and sensory motor integration of human skills A number of specific issues are highlighted including the neural mechanisms and disabilities of sensory motor integration planning and programming of action the dynamics of interlimb coordination amendment and updating mechanisms and in particular perception action coupling and the representation of action Underlying much of the volume are the major theoretical issues which include the debate between computational and prescriptive approaches versus the emergent properties and system dynamics approaches The book represents a diverse approach from such disciplines as psychology electrical and mechanical engineering human movement studies physiotherapy neurology and kinesiology

**Metal and Ceramic Based Composites** S.T.

Mileiko,1997-12-12 Modern scientific and technological fields are frequently of an interdisciplinary nature and the field of fibrous composites is no exception Unlike fibre reinforced plastics the family of metal and ceramic based composites is still quite a new group of materials with a large variety of mechanical and physical properties Up until now it has been difficult to produce these materials as the necessary technical information has not been well documented The main purpose of this book is to link together fabrication structure and properties chains so as to clarify which structure provides the necessary properties and how one can attain the correct composite structure To this end the book not only contains topics of a purely technical nature but also a description of the failure mechanics of metal and ceramic matrix composites as this is the key to understanding the structure properties segment of the chain mentioned The book is divided into three parts Part I presents a general view of composites with the accent on metal and ceramic matrix composites It also contains a brief description of modern fibres and composites and can be considered at least for beginners as a starting point for further study Part II looks at the composite microstructures considered to be either optimal or reasonable in resisting a particular loading Finally Part II describes a variety of mechanical physical and chemical potential for organizing these microstructures Experimental data on technologies material structures and material properties are used throughout the book to support theoretical conclusions or to obtain important physical parameters

**Transactions on Computational Collective Intelligence XXVII** Jacek

Mercik,2017-11-25 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twenty seventh issue is a special issue with 13 selected papers from the Second Seminar on Quantitative Methods of Group Decision Making

**Epistemological Aspects of Computer Simulation in the Social Sciences** Flaminio

Squazzoni,2009-04-21 This volume collects the revised versions of the invited and selected papers that were presented at the Second EPOS Epistemological Perspectives on Simulation Workshop held in Brescia Italy in October 2006 EPOS is a bi annual cross disciplinary workshop on simulation originally established by Ulrich Frank and Klaus G Troitzsch with a first edition held in Koblenz in July 2004 EPOS aims to provide a forum for scholars from various disciplines such as the social sciences computer sciences engineering and natural sciences who are interested in discussing epistemological aspects of computer simulation across disciplinary boundaries The common belief behind the workshop is the recognition that the time has come to seriously reflect on epistemological and methodological preconditions processes and consequences of simulation as a research tool During the first edition in Koblenz 2004 a number of interesting topics were fully addressed the link

between theory and simulation models the empirical validation of agent based models in the natural and the social sciences the relation between models and truth as well as the role of stylized facts in evidence based models A good cross disciplinary atmosphere permeated the workshop making possible the exchange of knowledge and ideas beyond any disciplinary boundary The first EPOS proceedings were edited by Ulrich Frank and Klaus G Troitzsch and published in the Journal of Artificial Societies and Social Simulation Vol 8 No 4 2005

*MY RESEARCH PUBLICATIONS,PROJECTS LIST(ENGINEERING,SOCIAL, WORLD ONE GOVERNMENT),SCIENCE LAWS MODIFIED,COMBINED TURBINE GENERATOR,Niagara source(FOR ALL)* Prof.Dr.MURUGAVEL.Rathinam,2024-08-31 MY RESEARCH PUBLICATIONS PROJECTS LIST ENGINEERING SOCIAL WORLD ONE GOVERNMENT SCIENCE LAWS MODIFIED COMBINED TURBINE GENERATOR Niagara source FOR ALL *Computer Simulation Studies in Condensed-Matter Physics VIII* David P. Landau,Kin-Keung Mon,Heinz-Bernd Schüttler,2012-12-06 Computer Simulation Studies in Condensed Matter Physics VIII covers recent developments in this field presented at the 1995 workshop such as new algorithms methods of analysis and conceptual developments This volume is composed of three parts The first part contains invited papers that deal with simulational studies of classical systems The second part is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models The final part comprises contributed presentations

**Analysing Families** Alan Carling,Simon Duncan,Rosalind Edwards,2005-07-05 With contributions from the UK and North America this book directly addresses the social processes responsible for the changes in the family role looking at how social policy interacts with what families actually do

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