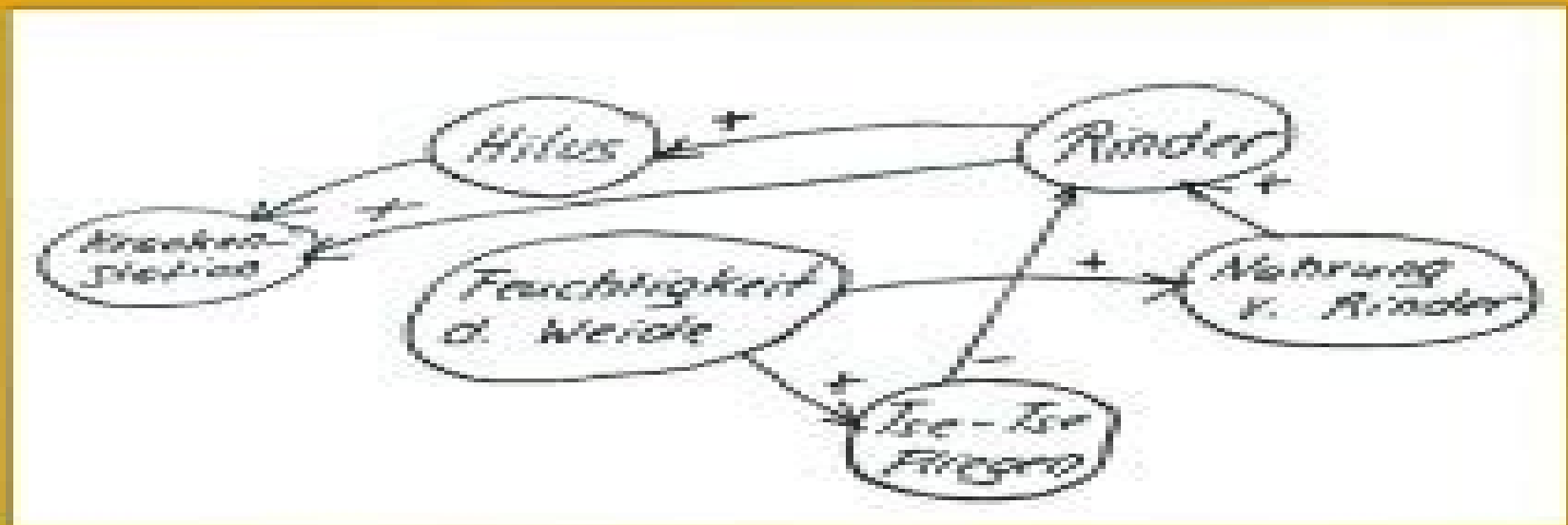


Entwicklung systemischen Denkens

Theoretische Konzepte und empirische Untersuchungen



Günther Ossimitz

Profil

Entwicklung Systemischen Denkens

**Armin Rempfler, Regula Grob, Marianne
Landtwing Blaser, Ute Schönauer**

Entwicklung Systemischen Denkens:

Systems Thinking View on the Situation of Unemployment in the USA Roland Schuster, 2003-08-27 Inhaltsangabe
Abstract The diploma thesis Systems Thinking View on the Situation of Unemployment in the United States was performed at the University of California San Diego at the Department of Sociology with advise of Prof John Evans PhD in cooperation with the Institute of Industrial Engineering Ergonomics and Business Economics with advise of O Univ Prof Dipl Ing Dr techn Franz Wojda and Ass Prof Dipl Ing Dr techn Walter Hackl Gruber by Roland Schuster It is in accordance to a specialization in leadership and organization The diploma thesis has its roots in the general system theory and emphasizes on a holistic view on the situation of unemployment in the United States The chosen approach is a combination of state of the art scientific knowledge from the fields of sociology psychology and economy In the previous work performed for the thesis it was detected that the diversity of the basic approach is necessary in meeting the complexity of the issue The many different factors influencing the chosen topic of unemployment are widespread Contributing to the theory of systems thinking the goal of the thesis was to find and describe an existing pattern that makes it possible to see the dynamic of the system The systemic view takes in account that everything is interconnected and hence interacting Systems thinking states that there are effects and influences on and by unemployment that are only visible in applying a holistic view The reason why the present paper is groundbreaking is not so much because of the used scientific knowledge which is state of the art but because of the combination of this knowledge This combination is meant to regard to one of the tasks given by cybernetics in increasing differentiation instead of increasing growth The basic standpoint is that the quantity of existing knowledge is already enough to create possible approaches for ways to optimize the current situation Only lacking is the understanding of how all the fragments are connected Systems thinking an application of system theory in this context is seen as a tool that makes it possible to develop a model to generate this understanding The thesis provides a brief overview of the United States Unemployment Insurance System and a systems thinking approach used for an interpretation of the current situation in the United States The diploma thesis is seen as basic work for further research on the situation of unemployment in the

Conference Proceeding. New Perspectives in Scienze Education Pixel, 2016-03-04 Komplexität und Systemisches Denken im Geographieunterricht Armin Rempfler, Regula Grob, Marianne Landtwing Blaser, Ute Schönauer, 2024-08-08 Komplexität und Systemisches Denken lautet der Titel des vorliegenden Bandes angelehnt an das Schwerpunktthema der alle zwei Jahre stattfindenden Tagung des Hochschulverbandes fuer Geographiedidaktik HGD das vom 07 09 10 2022 in Luzern stattfand Angelehnt an ein systemisches Verstaendnis der Geographie kommt den beiden Begriffen eine wichtige Bedeutung fuer die weitere Entwicklung des Faches zu Sie sind eng miteinander verknuepft weil hochgradig komplexe Natur Sozial und Mensch Umwelt Systeme sich vor allem durch systemisches Denken kognitiv tiefgruendig und adaequat erfassen lassen Neben der Faehigkeit mit dieser faktischen Komplexitaet kompetent umzugehen

bedarf ein reflektiertes ethisch begründetes raumbezogenes Handeln zusätzlich der hohen Kompetenz im Umgang mit ethischer Komplexität Die 11 ausgewählten Beiträge die sich mit dem Schwerpunktthema beschäftigen belegen ein aktives und vielfältiges Feld an Zugriffen und Betrachtungsweisen Sie ermöglichen eine breite und differenzierte Diskussion der Thematik und machen den Umgang damit theoretisch und empirisch zunehmend belastbarer und unterrichtspraktisch handhabbarer Die Zusammenstellung dient primär zwei Zielen einerseits der Standortbestimmung um den Status quo aktueller Forschung und Entwicklung innerhalb der geographiedidaktischen Community festzuhalten andererseits der Möglichkeit Desiderata in diesem Themenfeld auszumachen und weiterführende Arbeiten gezielt auszurichten

Competence Assessment in Education Detlev Leutner, Jens Fleischer, Juliane Grünkorn, Eckhard Klieme, 2017-03-27 This book addresses challenges in the theoretically and empirically adequate assessment of competencies in educational settings It presents the scientific projects of the priority program Competence Models for Assessing Individual Learning Outcomes and Evaluating Educational Processes which focused on competence assessment across disciplines in Germany The six year program coordinated 30 research projects involving experts from the fields of psychology educational science and subject specific didactics The main reference point for all projects is the concept of competencies which are defined as context specific cognitive dispositions that are acquired and needed to successfully cope with certain situations or tasks in specific domains Koeppen et al 2008 p 62 The projects investigate different aspects of competence assessment The primary focus lies on the development of cognitive models of competencies complemented by the construction of psychometric models based on these theoretical models In turn the psychometric models constitute the basis for the construction of instruments for effectively measuring competencies The assessment of competencies plays a key role in optimizing educational processes and improving the effectiveness of educational systems This book contributes to this challenging endeavor by meeting the need for more integrative interdisciplinary research on the structure levels and development of competencies

Fachdidaktische Diskussion von Informatiksystemen und der

Kompetenzentwicklung im Informatikunterricht Peer Stechert, 2009 In der vorliegenden Arbeit wird ein Unterrichtsmodell zur Kompetenzentwicklung mit Informatiksystemen für die Sekundarstufe II vorgestellt Der Bedarf wird u a damit begründet dass Informatiksysteme zu Beginn des 21. Jahrhunderts allgegenwärtig sind Kapitel 1 Für Kompetenzentwicklung mit Informatiksystemen sind diese in ihrer Einheit aus Hardware Software und Vernetzung anhand ihres nach außen sichtbaren Verhaltens der inneren Struktur und Implementierungsaspekten zu analysieren Ausgehend vom Kompetenzbegriff Kapitel 2 und dem Informatiksystembegriff Kapitel 3 erfolgt eine Analyse des fachdidaktischen Forschungsstandes zur Kompetenzentwicklung mit Informatiksystemen Die Ergebnisse lassen sich in die Bereiche 1 Bildungsziele 2 Unterrichtsinhalte 3 Lehr-Lernmethodik und 4 Lehr-Lernmedien aufteilen Kapitel 4 In Kapitel 5 wird die Unterrichtsmodellentwicklung beschrieben Den Zugang zu Informatiksystemen bildet in der vorliegenden

Dissertationsschrift das nach au en sichtbare Verhalten Es erfolgt eine Fokussierung auf vernetzte fundamentale Ideen der Informatik und Strukturmodelle von Informatiksystemen als Unterrichtsinhalte Es wird begründet dass ausgewählte objektorientierte Entwurfsmuster vernetzte fundamentale Ideen repräsentieren In Abschnitt 5 4 werden dementsprechend Entwurfsmuster als Wissensrepräsentation für vernetzte fundamentale Ideen klassifiziert Das systematische Erkunden des Verhaltens von Informatiksystemen wird im Informatikunterricht bisher kaum thematisiert Es werden Schlerfertigkeiten in Anlehnung an Unterrichtsexperimente angegeben die Schler unterstutzen Informatiksysteme bewusst und gezielt anzuwenden Abschnitt 5 5 Bei dieser Lehr Lernmethodik werden das nach au en sichtbare Verhalten von Informatiksystemen im Sinne einer Black Box und das Wechselspiel von Verhalten und Struktur bei vorliegender Implementierung des Systems als White Box analysiert Die Adressierung schrittweise höherer kognitiver Niveaustufen wird in die Entwicklung einbezogen Unterstutzt wird für das Unterrichtsmodell lernförderliche Software gestaltet die vernetzte fundamentale Ideen in Entwurfsmustern und das Experimentieren aufgreift Abschnitt 5 6 Schwerpunkte bilden im Unterrichtsmodell zwei Arten von lernförderlicher Software 1 Die Lernsoftware Pattern Park wurde von einer studentischen Projektgruppe entwickelt In ihr können in Entwurfsmustern enthaltene fundamentale Ideen der Informatik über ihren Lebensweltbezug im Szenario eines Freizeitparks analysiert werden 2 Als weitere Art Lernsoftware werden kleine Programme eingesetzt deren innere Struktur durch ausgewählte Entwurfsmuster gebildet und deren Verhalten direkt durch die darin enthaltenen fundamentalen Ideen bestimmt wird Diese Programme können durch die Experimente im Unterricht systematisch untersucht werden Mit dem Ziel die normative Perspektive um Rückkopplung mit der Praxis zu ergänzen werden zwei Erprobungen im Informatikunterricht vorgenommen Diese liefern Erkenntnisse zur Machbarkeit des Unterrichtsmodells und dessen Akzeptanz durch die Schler Kapitel 6 und 8 Exemplarisch umgesetzt werden die Themen Zugriffskontrolle mit dem Proxymuster Iteration mit dem Iteratormuster und Systemzustände mit dem Zustandsmuster Der intensive Austausch mit Informatiklehrpersonen in der Kooperationsschule über Informatiksysteme und Kompetenzentwicklung sowie die Durchführung von zwei Lehrerfortbildungen ergänzen die Beobachtungen im unterrichtlichen Geschehen Die erste Unterrichtserprobung resultiert in einer Weiterentwicklung des Unterrichtsmodells zu Informatiksystemen und Kompetenzentwicklung Kapitel 7 Darin erfolgt eine Fokussierung auf das nach au en sichtbare Verhalten von Informatiksystemen und eine Verfeinerung der Perspektiven auf innere Struktur und ausgewählte Implementierungsaspekte Anschließend wird die zweite Unterrichtserprobung durchgeführt und evaluiert Kapitel 8 Am Schluss der Forschungsarbeit steht ein in empirischen Phasen erprobtes Unterrichtsmodell

Real-World Problems for Secondary School Mathematics Students Juergen Maasz, John O'Donoghue, 2011-10-30 This is a book full of ideas for introducing real world problems into mathematics classrooms and assisting teachers and students to benefit from the experience Taken as a whole these contributions provide a rich resource for mathematics teachers and their students that is readily available in a single volume Nowadays there is a universal emphasis on teaching for understanding

motivating students to learn mathematics and using real world problems to improve the mathematics experience of school students However using real world problems in mathematics classrooms places extra demands on teachers in terms of extra mathematical knowledge e g knowledge of the area of applications and pedagogical knowledge Care must also be taken to avoid overly complex situations and applications Papers in this collection offer a practical perspective on these issues and more While many papers offer specific well worked out lesson type ideas others concentrate on the teacher knowledge needed to introduce real world applications of mathematics into the classroom We are confident that mathematics teachers who read the book will find a myriad of ways to introduce the material into their classrooms whether in ways suggested by the contributing authors or in their own ways perhaps through mini projects or extended projects or practical sessions or enquiry based learning We are happy if they do This book is written for mathematics classroom teachers and their students mathematics teacher educators and mathematics teachers in training at pre service and in service phases of their careers

Conference proceedings. New perspectives in science education 7th edition Pixel,2018-03-19 Eine kurze Geschichte des systemischen Denkens Wolfram Lutterer,2021-10-27 Was ist es eigentlich genauer was systemisches Denken ausmacht Wo kommt es her Wolfram Lutterers Kurze Geschichte des systemischen Denkens bietet zun chst genau das was der Titel verspricht Das Buch gibt die Entwicklungsgeschichte systemischen Denkens in einem berschaubaren berblick wieder und diskutiert kritisch die Positionen ma geblicher Denker innen Wolfram Lutterer zeigt dass es Vorformen des systemischen sowie des konstruktivistischen Denkens bereits seit der Antike und dar ber hinaus auch jenseits des westlichen Kulturkreises gibt also gewisserma en von jeher und vielleicht sogar berall Besonderes Gewicht erh lt die Entwicklung systemischer Ans tze im 20 Jahrhundert u a mit den Arbeiten von Gregory Bateson Heinz von Foerster und Humberto Maturana Erg nzend zum systemischen Diskurs werden parallele und konkurrierende wissenschaftliche Herangehensweisen thematisiert **Construction of a Concept of Neuronal Modeling** Marcus Grum,2022-02-25 The business problem of having inefficient processes imprecise process analyses and simulations as well as non transparent artificial neuronal network models can be overcome by an easy to use modeling concept With the aim of developing a flexible and efficient approach to modeling simulating and optimizing processes this paper proposes a flexible Concept of Neuronal Modeling CoNM The modeling concept which is described by the modeling language designed and its mathematical formulation and is connected to a technical substantiation is based on a collection of novel sub artifacts As these have been implemented as a computational model the set of CoNM tools carries out novel kinds of Neuronal Process Modeling NPM Neuronal Process Simulations NPS and Neuronal Process Optimizations NPO The efficacy of the designed artifacts was demonstrated rigorously by means of six experiments and a simulator of real industrial production processes **Physics Education for Students: An Interdisciplinary Approach** Maria Teresa Caccamo,Salvatore Magazù,2021-08-11 Physics Education for Students An Interdisciplinary Approach is a compilation of reviews that highlight new approaches and trends in teaching and

learning specific topics on physics to high school and university students The reviews cover different areas of physics education laboratory activities mathematics philosophy and history and the ways that learning outcomes can be improved These distinguished areas can generate complexities and difficulties for students in learning some concepts since the same topics are often presented while following approaches that do not highlight the existing correlations among the involved disciplines The reviewers discuss an integrated framework for readers with the objective to promote the inclusion of specific laboratory activities and mathematics contents for physics courses addressed to university students with evidence of the importance of combining a historical and philosophical approach as well Specific topics in this book include the benefits of active learning in physics education dialogic best practices in science education research based proposals on optical spectroscopy in secondary schools didactic principles and e learning in physics and expansive framing in physics laboratories Physics Education for Students An Interdisciplinary Approach with its selection of expert reviews is an interesting read for academics and researchers involved in STEM education at the school or college level

Dealing with Real-World Complexity Mark Hürlimann, 2009-04-09 Based on policy makers limitations in solving real life problems and the fact that information is rarely available in a pure quantitative form enhancements and new approaches to remedy this are proposed by Mark Hürlimann He introduces simple and more sophisticated static and dynamic methods to analyze complex topics In addition a semi quantitative approach is presented that integrates quantitative and qualitative variables in a feedback system The author finally illustrates on the basis of a case study the advantages and limitations of the various approaches in a didactically sound and easily understandable way

Marketing Initiatives for Sustainable Educational Development Tripathi, Purnendu, Mukerji, Siran, 2018-06-22 Technology plays a vital role in bridging the digital divide and fostering sustainability in educational development This is evident through the successful use of social media in educational marketing campaigns and through the integration of massive open online courses to reorient learner interactions in higher education environments Marketing Initiatives for Sustainable Educational Development contains the latest approaches to maximize self guided interdisciplinary learning through the use of strategies such as web based games to elicit collaborative behavior in student groups It also explores the important role that technology serves in educating students especially in the realm of technological skills and competencies This book is a vital resource for educators instructional designers administrators marketers and education professionals seeking to enhance student learning and engagement through technology based learning tools

Universal Access in Human-Computer Interaction. Applications and Services Constantine Stephanidis, 2011-06-24 The four volume set LNCS 6765 6768 constitutes the refereed proceedings of the 6th International Conference on Universal Access in Human Computer Interaction UAHCI 2011 held as Part of HCI International 2011 in Orlando FL USA in July 2011 jointly with 10 other conferences addressing the latest research and development efforts and highlighting the human aspects of design and use of computing systems The 72 revised papers included in the fourth volume

were carefully reviewed and selected from numerous submissions The papers are organized in the following topical sections speech communication and dialogue interacting with documents and images universal access to education and learning well being health and rehabilitation applications and universal access in complex working environments **Geography**

Education Promoting Sustainability Eila Jeronen,2020-04-15 Through out the current period of educational change Geography education has also changed The innovations may be the starting point to affect conceptual change and paradigm shifts Geography education assimilates and integrates knowledge skills and scientific methodologies The ten articles in this book illuminate a wide range of topics of interest to Geography education In their article Skarstein and Wolff discuss how the interplay between the environment society and economy pillars of sustainability thinking play out on scales of time space and multitude and how geography teachers can support the students understanding of sustainability Yli Panula et al analysed used teaching and learning methods to find out good ones for promoting sustainability in geography The same idea can be found in Duffin s and Perry s article on Place Based Ecology Education In their article D r and Keller discuss the topics of quality of life sustainability and global justice based on the goals of Education for Sustainable Development Evaluation is an important part of learning It is reviewed by Schauss and Sprenger regarding climate change education The following two articles deal with students views of landscapes worth conserving In both studies students expressed concern about the state of the environment Yli Panula et al found that the Mexican students seldom considered their own activities in relation to the environment while Yli Panula et al stated that only some of the Finnish and Swedish students act as observers while others actively care for their environment The remaining three articles deal with teaching methods and models Benninghaus et al present a benchmark method which allows statements about the quality of the maps diagrams in general lvarez Otero and De L zaro y Torres on the other hand describe their Technological Pedagogical Content Knowledge model Kopnina and Saari discusses student assignments reflecting on the documentary film through critical pedagogy and ecopedagogy

Demographic Change and Economic Growth Lars Weber,2010-08-02 In this book the author investigates the impact of demographic change on economic growth As a result of the current financial crisis a new view on economics has been demanded by various scientists The author provides such a new view on economic growth using a methodology of system dynamics By applying this method the author focuses on characteristics of complex systems and analyzes aging and shrinking processes and not only positive growth Delays and feedback processes are also considered This leads to deeper and revealing insights into economic behavior In doing so a new semi endogenous growth model is developed by introducing a specific and detailed population sector demographic growth model The book shows and analyzes the behavior of such a model and tests several policy scenarios in a transfer chapter to apply the new theoretical approach on real world problems The major results are summarized in 15 principles of demographic growth *Curriculum Design and Classroom Management: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2015-04-30 Educational pedagogy is

a diverse field of study one that all educators should be aware of and fluent in so that their classrooms may succeed Curriculum Design and Classroom Management Concepts Methodologies Tools and Applications presents cutting edge research on the development and implementation of various tools used to maintain the learning environment and present information to pupils as effectively as possible In addition to educators and students of education this multi volume reference is intended for educational theorists administrators and industry professionals at all levels *Handbook of Research on Transnational Higher Education* Mukerji, Siran, 2013-08-31 The integration of new technology and global collaboration has undoubtedly transformed learning in higher education from the traditional classroom setting into a domain of support services academic programs and educational products which are made available to learners The Handbook of Research on Transnational Higher Education is a unique compilation of the most recent research done by higher education professionals in the areas of policy governance technology marketing and leadership development This publication succeeds in highlighting the most important strategies and policies for professionals policymakers administrators and researchers interested in higher education management Conference Proceedings. New Perspectives in Science Education Pixel, 2017

Comprehending the Complexity of Countries Hans Kuijper, 2022-01-18 This book argues for computer aided collaborative country research based on the science of complex and dynamic systems It provides an in depth discussion of systems and computer science concluding that proper understanding of a country is only possible if a genuinely interdisciplinary and truly international approach is taken one that is based on complexity science and supported by computer science Country studies should be carefully designed and collaboratively carried out and a new generation of country students should pay more attention to the fast growing potential of digitized and electronically connected libraries In this frenzied age of globalization foreign policy makers may to the benefit of a better world profit from the radically new country studies pleaded for in the book Its author emphasizes that reductionism and holism are not antagonistic but complementary arguing that parts are always parts of a whole and a whole has always parts Human-nature Interactions in the Anthropocene Marion Glaser, 2012 This book deals with the potentials of social ecological systems analysis for resolving sustainability problems Contributors relate inter and transdisciplinary perspectives to systemic dynamics human behavior and the different dimensions and scales With a problem focused sustainability oriented approach to the analysis of human nature relations this text will be a useful resource for scholars of human and social ecology geography sociology development studies social anthropology and natural resources management

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