



# New Directions For Intelligent Tutoring Systems

**Ben A. G. Elsendoorn, Frans Coninx**



## **New Directions For Intelligent Tutoring Systems:**

*New Directions for Intelligent Tutoring Systems* Ernesto Costa, 2012-12-06 This book is a result of the NATO Advanced Research Workshop on New Directions for Intelligent Tutoring Systems held in Sintra Portugal October 6 10 1990 The main idea behind the workshop was to bring together scientists with different concerns about Intelligent Tutoring Systems ITS in order to discuss the positive and negative aspects of the current architecture paradigm expert module student module instructional module and interface module and eventually propose some modifications or radical changes to it This was a consequence of the increasing malaise felt currently by researchers in the area of artificial intelligence and education and in particular by those concerned with ITS One symptom of this state of affairs is the fact that people have started talking about Intelligent Learning Environments ILE instead of ITS To understand the reasons for this situation we promoted the discussion of questions like To what extent do we need the technology of expert systems in ITS Which other relevant AI techniques and methodologies are urgently needed Is ITS a tool for knowledge communication or is it rather a belief system How can the research already done on interactions among agents be utilized Is it possible to find a formal theory to describe and solve the current problems with ITS The book contains the revised versions of the papers presented at the workshop The new texts reflect the discussions that took place at the meeting

### **New Directions for Intelligent Tutoring Systems**

Ernesto Costa, 1992-12-14 This book contains revised versions of the papers presented at the NATO Advanced Research Workshop New Directions for Intelligent Tutoring Systems held in Sintra Portugal October 6 10 1991 The aim of the workshop was to bring together scientists working on Intelligent Tutoring Systems ITS in order to discuss positive and negative aspects of the current architecture paradigm expert module student module instructional module and interface module and to propose changes The book is divided into five parts Foundations Student Modelling ITS Principles and Practice Belief Systems and Interaction Among Agents Each part is organized around a major theme which is observed from different points of view Some papers have a formal or theoretical orientation some discuss applications and implementations and some combine both aspects The book will be useful for all researchers involved in the application of artificial intelligence to education

### **Intelligent Tutoring Systems in E-Learning Environments: Design, Implementation and Evaluation**

Stankov, Slavomir, Glavinic, Vlado, Rosic, Marko, 2010-07-31 This book addresses intelligent tutoring system ITS environments from the standpoint of information and communication technology ICT and the recent accomplishments within both the e learning paradigm and e learning systems Provided by publisher

### **New Directions in Intelligent Interactive**

**Multimedia Systems and Services - 2** Ernesto Damiani, Jechang Jeong, 2009-07-09 The theme of the 2nd International KES Symposium on Intelligent Interactive Multimedia Systems and Services was integration of multimedia processing techniques in a new wave of user centric services and processes This text offers the symposium's proceedings

Intelligent Tutoring Systems Claude Frasson, Gilles Gauthier, Alan Lesgold, 1996-05-29 This book presents the refereed proceedings of the Third

International Conference on Intelligent Tutoring Systems ITS 96 held in Montreal Canada in June 1996 The book contains 69 revised papers selected from a total of 128 submissions also included are six invited papers from well known speakers All in all the book reflects the state of the art in the area In particular the following topics are covered advising systems ITS architectures cognitive models design issues empirical studies formal models learning environments real world applications software tools for tutoring student modelling teaching and learning strategies and multimedia and WWW **New**

**Directions in Educational Technology** Eileen Scanlon,Tim O'Shea,2012-12-06 This book is based on the workshop that kickstarted the NATO Science Committee Special Programme on Advanced Educational Technology We invited the leaders in the field to attend this inaugural meeting and were delighted by the quality of the attendance the papers delivered at the workshop and this book Many of the authors have subsequently run other meetings funded by the Special Programme and have or are in the process of editing books which focus on particular topics This book covers all the major themes in the area ranging from fundamental theoretical work to empirical studies of state of the art technological innovations Tim O Shea chaired the NATO Survey Group which planned the Programme and the subsequent Panel which disbursed funds in the first two years of the Programme He would like to thank the other group and panel members namely Professor N Balacheff Professor D Bjomer Professor H Bouma Professor P C Duchastel Professor A Dias de Figueiredo Dr D Jonassen and Professor T Liao He would like to offer his special thanks to Dr L V da Cunha the NATO Programme Director for his unfailing support and patience Eileen Scanlon was the Director of the Workshop which is the basis of this book She offers heartfelt thanks to the contributors and to the following who provided practical help with the meeting or the production of this book Mrs Pauline Adams Dr Mike Baker Mrs Kathy Evans Mrs Patricia Roe Mr Dave Perry and Ms Fiona Spensley **Learning from**

**Computers: Mathematics Education and Technology** Christine Keitel-Kreidt,Kenneth Ruthven,2012-12-06 The NATO Advanced Research Workshop on Mathematics Education and Technology was held in Villard de Lans France between May 6 and 11 1993 Organised on the initiative of the BaCoMET Basic Components of Mathematics Education for Teachers group Christiansen Howson and Otte 1986 Bishop Mellin Olsen and van Dormolen 1991 the workshop formed part of a larger NATO programme on Advanced Educational Technology Some workshop members had already participated in earlier events in this series and were able to contribute insights from them similarly some members were to take part in later events The problematic for the workshop drew attention to important speculative developments in the applications of advanced information technology in mathematics education over the last decade notably intelligent tutoring geometric construction symbolic algebra and statistical analysis Over the same period more elementary forms of information technology had started to have a significant influence on teaching approaches and curriculum content notably arithmetic and graphic calculators standard computer tools such as spreadsheets and databases and computer assisted learning packages and computer microworlds specially designed for educational purposes **Interactive Learning Technology for the Deaf** Ben A. G.

Elsendoorn,Frans Coninx,1993      **Advanced Educational Technology: Research Issues and Future Potential** Thomas T. Liao,2012-12-06 As we approach the 21st century the need to better link research findings and practical applications of advanced educational technologies AET continues to be a priority During the five year NATO Special Programme on AET many advanced study institutes and research workshops focused on building bridges between researchers in and users of educational technology The organizing committee of the final capstone workshop which took place in September 1993 also chose to focus on this theme Three position papers written by members of the AET advisory committee provided the background and platform for the two day workshop that was designed to provide guidelines for future AET research and implementation projects Nicolas Balacheff kicked off the workshop with a philosophical review of the research issues and future research agendas Herman Bouma and his colleagues at the Institute for Perception Research discussed implementation issues and problems of technology transfer from research laboratories to educational product development

**Artificial Intelligence in Education** Ulrich Hoppe,Maria Feliza Verdejo,Judy Kay,2003 This work reports on research into intelligent systems models and architectures for educational computing applications It covers a wide range of advanced information and communication and computational methods applied to education and training      Designing Environments for Constructive Learning Thomas M. Duffy,Joost Lowyck,David H. Jonassen,2012-12-06 The idea for this book grew out of a NATO Advanced Research Workshop held at the Catholic University at Leuven Belgium We are grateful to NATO for support in conducting this workshop and for support in the preparation of this book We are particularly grateful for their emphasis on designing the workshop to build collegiality They suggested that we hold the meeting in a small town and that we organize evening activities to keep the group together and to promote informal and extended discussions What sage advice The excitement grew over the three days as we shared understandings and enriched our perspectives Indeed there was even a proclaimed near conversion to a constructivist perspective from one colleague trained in traditional instructional design methods While we report this as a bit of a humorous anecdote it most clearly reflects the sense of excitement that developed We would also like to thank the staff at the Catholic University for their great support during the workshop Their efforts and their good cheer were important components in the success of the meeting In particular we would like to thank Jan Elen Catherine Vermunicht and Jef Vanden Branden Finally we would like to thank the personnel at Indiana University for their help in assembling this book Deborah Shaw prepared the index We thank her for the skill and speed with which she was able to work      **Advanced Educational Technology in Technology Education** Anthony Gordon,Michael Hacker,Marc de Vries,1993-09-29 Proceedings of the NATO Advanced Study Institute on Advanced Educational Technology in Technology Education held in Salford U K August 17 28 1992      **Errors and Intelligence in Computer-Assisted Language Learning** Trude Heift,Mathias Schulze,2007-11-13 This book provides the first comprehensive overview of theoretical issues historical developments and current trends in ICALL Intelligent Computer Assisted Language Learning It assumes a basic familiarity

with Second Language Acquisition SLA theory and teaching CALL and linguistics It is of interest to upper undergraduate and or graduate students who study CALL SLA language pedagogy applied linguistics computational linguistics or artificial intelligence as well as researchers with a background in any of these fields      **Computer Aided Learning and Instruction in Science and Engineering** Arantza Diaz de Ilarraza Sanchez, Isabel Fernandez de Castro, 1996-07-01 This book constitutes the refereed proceedings of the Third International Conference on Computer Aided Learning and Instruction in Science and Engineering CALICSE 96 held in San Sebastian Spain in July 1996 The 42 revised full papers presented in the book were selected from a total of 134 submissions also included are the abstracts of full papers of four invited talks and 17 poster presentations The papers are organized in topical sections on learning environments modelling and design authoring and development tools and techniques CAL in distance learning multimedia and hypermedia in CAL and applications in science and engineering      Advanced Models of Cognition for Medical Training and Practice David A. Evans, Vimla L. Patel, 2013-06-29 Cognitive science is a multidisciplinary science concerned with understanding and utilizing models of cognition It has spawned a great deal of research on applications such as expert systems and intelligent tutoring systems and has interacted closely with psychological research However it is generally accepted that it is difficult to apply cognitive scientific models to medical training and practice This book is based on a NATO Advanced Research Workshop held in Italy in 1991 the purpose of which was to examine the impact of models of cognition on medical training and practice and to outline future research programmes relating cognition and education and in particular to consider the potential impact of cognitive science on medical training and practice A major discovery presented in the book is that the research areas related to artificial intelligence cognitive psychology and medical decision making are considerably closer both conceptually and theoretically than many of the workshop participants originally thought      Advanced Educational Technologies for Mathematics and Science David L. Ferguson, 2013-04-17 This book is the outgrowth of a NATO Advanced Research Workshop held in Milton Keynes United Kingdom in the summer of 1990 The workshop brought together about 30 world leaders in the use of advanced technologies in the teaching of mathematics and science Many of these participants commented that the workshop was one of the more productive and exciting workshops that they had attended It was not uncommon to see participants engaged in informal discussion far into the evenings and early mornings long after formal sessions had ended It is my hope that this book captures the substance and excitement of many of the ideas that were presented at the workshop Indeed the process by which this book has come about has given every opportunity for the best thinking to get reflected here Participants wrote papers prior to the workshop After the workshop participants revised the papers at least once In a few instances three versions of papers were written Some participants could not resist the urge to incorporate descriptions of some of the newer developments in their projects The papers in this book demonstrate how technology is impacting our view of what should be taught what can be taught and how we should go about teaching in the various disciplines As such they

offer great insight into the central issues of teaching and learning in a wide range of disciplines and across many grade levels ranging from elementary school through undergraduate college education      Instructional Models in Computer-Based Learning Environments Sanne Dijkstra,Hein P.M. Krammer,Jeroen J.G. van Merriënboer,2013-11-11 In the last decade there have been rapid developments in the field of computer based learning environments A whole new generation of computer based learning environments has appeared requiring new approaches to design and development One main feature of current systems is that they distinguish different knowledge bases that are assumed to be necessary to support learning processes Current computer based learning environments often require explicit representations of large bodies of knowledge including knowledge of instruction This book focuses on instructional models as explicit potentially implementable representations of knowledge concerning one or more aspects of instruction The book has three parts relating to different aspects of the knowledge that should be made explicit in instructional models knowledge of instructional planning knowledge of instructional strategies and knowledge of instructional control The book is based on a NATO Advanced Research Workshop held at the University of Twente The Netherlands in July 1991      *Multimodal Intelligent Sensing in Modern Applications* Masood Ur Rehman,Ahmed Zoha,Muhammad Ali Jamshed,Naeem Ramzan,2025-02-26 Discover the design implementation and analytical techniques for multi modal intelligent sensing in this cutting edge text The Internet of Things IoT is becoming ever more comprehensively integrated into everyday life The intelligent systems that power smart technologies rely on increasingly sophisticated sensors in order to monitor inputs and respond dynamically Multi modal sensing offers enormous benefits for these technologies but also comes with greater challenges it has never been more essential to offer energy efficient reliable interference free sensing systems for use with the modern Internet of Things Multimodal Intelligent Sensing in Modern Applications provides an introduction to systems which incorporate multiple sensors to produce situational awareness and process inputs It is divided into three parts physical design aspects data acquisition and analysis techniques and security and energy challenges which together cover all the major topics in multi modal sensing The result is an indispensable volume for engineers and other professionals looking to design the smart devices of the future Multimodal Intelligent Sensing in Modern Applications readers will also find A field of multidisciplinary contributors in fields like wireless communications signal processing and sensor design Coverage of both software and hardware solutions to sensing challenges Detailed treatment of advanced topics like efficient deployment data fusion machine learning and more Multimodal Intelligent Sensing in Modern Applications is ideal for experienced engineers and designers who need to apply their skills to Internet of Things and 5G 6G networks It can also act an introductory text for graduate researchers into understanding the background design and implementation of various sensor types and data analytics tools      **International Perspectives on the Design of Technology-supported Learning Environments** Stella Vosniadou,Erik De Corte,Robert Glaser,Heinz Mandl,2012-10-12 In recent years the use of technology for the purposes of improving and enriching traditional

instructional practices has received a great deal of attention. However, few works have explicitly examined cognitive psychological and educational principles on which technology supported learning environments are based. This volume attempts to cover the need for a thorough theoretical analysis and discussion of the principles of system design that underlie the construction of technology enhanced learning environments. It presents examples of technology supported learning environments that cover a broad range of content domains from the physical sciences and mathematics to the teaching of language and literacy. The emphasis in this book is not on the design of educational software but on the design of learning environments. A great deal of research on learning and instruction has recently moved out of the laboratory into the design of applications in instructional settings. By designing technology supported learning environments, instructional scientists attempt to better understand the theories and principles that are explicit in their theories of learning. The contributors to this volume examine how factors such as social interaction, the creation of meaningful activities, the use of multiple perspectives, and the construction of concrete representations influence the acquisition of new information and transfer.

**Intelligent Learning Environments and Knowledge Acquisition in Physics** Andree Tiberghien, Heinz Mandl, 2012-12-06

The NATO workshop Knowledge acquisition in the domain of physics and intelligent learning environments was held in Lyon, France, July 8-12, 1990. A total of 31 researchers from Europe (France, Germany, Greece, Italy, Portugal) and the U.K., the U.S.A., and Japan worked together. This proceedings volume contains most of the contributions to the workshop. The papers show clearly the main directions of research in intelligent learning environments. They display a variety of points of view depending on the researcher's own background, even when a single domain of teaching, namely physics, is considered. We acknowledge the assistance of Michael Baker, who was responsible for reviewing the English of the contributions.

February 1992 Andree Tiberghien, Heinz Mandl

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