



New Directions For Intelligent Tutoring Systems

Ernesto Costa



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

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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

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 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

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 Björner 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 Automating Instructional Design, Development, and Delivery Robert D. Tennyson,2012-12-06 This workshop was organized and presented by an international group of scholars interested in the advancement of automating instructional design Although the principal leader for this effort was myself each of the committee members devoted equally in time and effort in the total preparation and conducting of the workshop Members of the organizing committee included Dr Klaus Breuer from disce and the University ofPaderbom Germany Dr Begofia Gros from the University of Barcelona and Dr Daniel Muraida and Dr Michael Spector from the Armstrong Laboratory USA Dr Gros participated as the co director of the workshop and was directly responsible for the preparation and operation of the workshop in Sitges Spain The workshop was held in Sitges a short distance from Barcelona March 23 27 1992 Because of preparations at that time for the 1992 summer Olympic Games in Barcelona the workshop was moved to a more convenient location The theme of the workshop included three main topics planning production and implementation Dr Peter Goodyear from the Lancaster University England presented the invited keynote address During the four day workshop 14 papers were presented and discussed Following each of the three topic areas Drs Gros and Breuer led discussions critiquing the ideas presented *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

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New Directions For Intelligent Tutoring Systems Introduction

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