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Descrizione fisica	1 online resource (156 pages)
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Titolo	Analysis, design and evaluation of man-machine systems : proceedings of the IFAC/IFIP/IFORS/IEA conference, Baden-Baden, Federal Republic of Germany, 27-29 September 1982 // edited by G. Johannsen and J.E. Rijnsdorp
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Nota di contenuto	Front Cover; Analysis, Design and Evaluation of Man-Machine Systems; Copyright Page; IFAC/IFIP/IFORS/IEA CONFERENCE ON ANALYSIS, DESIGN AND EVALUATION OF MAN-MACHINE SYSTEMS; SESSION CHAIRMEN (AND SECRETARIES - S); PREFACE; Table of Contents; MAN-MACHINE SYSTEMS - INTRODUCTION AND BACKGROUND; DEFINITION AND PURPOSE OF MAN-MACHINE SYSTEMS; HISTORICAL AND SCIENTIFIC BACKGROUND; HUMAN TASK CATEGORIES; REFERENCES; Chapter 1. PERSPECTIVES ON HUMAN PERFORMANCE; INTRODUCTION; PSYCHOLOGICALLY-BASED MODELS; CONTROL THEORETIC APPROACH TO MODELLING HUMAN PERFORMANCE; A TEMPTING SYNTHESIS; DISCUSSION REFERENCESChapter 2. VISUAL SCAN AND PERFORMANCE - INDICATORS OF MAN'S WORKLOAD?; INTRODUCTION; RESULTS; CONCLUSIONS; REFERENCES; Chapter 3. CONSTRUCTION AND APPLICATION OF A COMBINED NETWORK AND PRODUCTION SYSTEMS MODEL OF PILOT BEHAVIOUR ON AN ILS-APPROACH; INTRODUCTION; PROBLEM DEFINITION; PROBLEM REPRESENTATION; MODEL IMPLEMENTATION; SIMULATION OF THE ILS-APPROACH; MODEL VALIDATION; ANALYSIS OF SIMULATION OUTPUT DATA; CONCLUSIONS; REFERENCES; Chapter 4. A FUZZY MODEL OF DRIVER BEHAVIOUR: COMPUTER SIMULATION AND

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 CONCLUSION; REFERENCES; APPENDIX; Chapter 5. THE AIR TRAFFIC  
 CONTROLLER'S PICTURE AS AN EXAMPLE OF A MENTAL MODEL;  
 INTRODUCTION; INTERVIEWS WITH TRAINING CONTROLLERS; VERBAL  
 PROTOCOLS FROM A STUDY OF SECTOR HANDOVER; REPLAY  
 TECHNIQUE: THE INVESTIGATION OF ESTABLISHED PICTURE; THE  
 DEVELOPMENT OF THE REPLAY TECHNIQUE; REFERENCES; Chapter 6.  
 THE DERIVATION OF HANDLING QUALITIES CRITERIA FROM PRECISION  
 PILOT MODEL CHARACTERISTICS; INTRODUCTION; CLOSED LOOP  
 ANALYSIS; CONCLUSIONS; CONSEQUENCES; REFERENCES; DISCUSSION  
 OF SESSION 1  
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 CONCLUSIONS; REFERENCES; Chapter 8. AN INTEGRATED DISPLAY SET  
 FOR PROCESS OPERATORS; INTRODUCTION; SYSTEM REPRESENTATION;  
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 SYSTEM; DESIGN AND IMPLEMENTATION; EVALUATION; CONCLUSION;  
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 Chapter 10. ERGONOMIC ASPECTS OF WORKING PLACES WITH VDU'S IN  
 CONTROL ROOMS - COMPARISON TO WORKING PLACES WITH VDU'S IN  
 OFFICESINTRODUCTION; DESCRIPTION OF TYPICAL CLASSES OF WORK  
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 CONTROL AND AUTOMATION; MAN-MACHINE INTERACTION; THE  
 SUPERVISION SYSTEM; CONCLUDING REMARKS; ACKNOWLEDGEMENTS;  
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 DISPLAY FOR PRODUCTION CONTROL

## Sommario/riassunto

Analysis, Design, & Evaluation of Man-Machine Systems presents an examination of the construction and application of a combined network and production systems model. It discusses the computer simulation and experimental results of a fuzzy model of driver behavior. It addresses the ergonomic aspects of working places in control rooms. Some of the topics covered in the book are the control and supervision of the eurelios solar power plant; computer aided control station with coloured display for production control; dynamic and static models for nuclear reactor operators; ironies of automation; a