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Soggetti	Physics Operations research Decision making Educational technology User interfaces (Computer systems) Applications of Graph Theory and Complex Networks Operations Research/Decision Theory Educational Technology User Interfaces and Human Computer Interaction
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Note generali	Includes index.
Nota di contenuto	Preface -- PART ONE: INTRODUCTION TO DECISION MAKING IN COMPELX, DYNAMIC TASKS -- 1. Dynamic Decision Making and Learning: An Introduction -- PART TWO: DEVELOPMENT OF A PROCESS MODEL FOR BETETR DECISION MAKING -- 2. Empirical Evidence on Dynamic Decision Making and ILEs -- 3. Towards a Road to Success: The Development of the Integrated Process Model -- 4. Seeking the Truth: Human-Facilitated ILEs and Hypotheses Development -- PART THREE: SETTING THE STAGE FOR DECION MAKING AND LEARNING -- 5. Overexploitation of Renewables Abound: Modeling Fisheries Management -- 6. How to Develop the Managerial Practice Field, FishBakILE? HCI Design and Learning Principles in Service of DDM -- 7. On the Mechanics of Laboratory Experiments: The Experimental Design and Procedures -- PART FOUR: ON BETTER DECIONS MAKING IN

DYNAMIC TASKS -- 8. Improving Performance in Fisheries Management Task -- 9. Developing Transfer Learning Skills: The 1-Layer Process Model -- 10. Decision Strategy and Performance in Dynamic Tasks: The 2-Layer Process Model -- 11. Pulling It Together: A Validated Process Model for DDM and Learning -- 12. The Greater Whole: Human-Facilitated ILEs and Better Decision-Making: Critical Lessons Learned -- 13. Making Better Decisions in Healthcare, Energy Policy and Education Sectors: Human-Facilitated ILEs in Action -- 14. Finale: A Road Map to Better Decision Making in Complex, Dynamic Tasks -- Additional Suggested Readings -- Appendices -- Index.

Sommario/riassunto

This book describes interactive learning environments (ILEs) and their underlying concepts. It explains how ILEs can be used to improve the decision-making process and how these improvements can be empirically verified. The objective of this book is to enhance our understanding of and to gain insights into the process by which human facilitated ILEs are effectively designed and used in improving users' decision making in complex, dynamic tasks. This book is divided into four major parts. Part I serves as an introduction to the importance and complexity of decision making in dynamic tasks. Part II provides background material, drawing upon relevant literature, for the development of an integrated process model on the effectiveness of human facilitated ILEs in improving decision making in dynamic tasks. Part III focuses on the design, development, and application of FishBankILE in laboratory experiments to gather empirical evidence for the validity of the process model. Finally, part IV presents a comprehensive analysis of the gathered data to illustrate the lessons to be learned. Better Decision Making in Complex, Dynamic Tasks will be useful for managers and practitioners, researchers, and students of dynamic decision making. Praise for Better Decision Making in Complex, Dynamic Tasks: "...rich in content, full with unique insights, and a self-sufficient volume on the design, development and application of system dynamics based simulations that are implemented as interactive learning environments (ILEs). Practitioners and researchers interested in seeking evidence for the efficacy of ILEs' use in decision-making will find this book a must read." Prof. Carmine Bianchi, Scientific Coordinator of CED4-System Dynamics Group, University of Palermo, Italy.
