
Preface

Tremendous advances in intelligent paradigms, such as artificial neural systems, machine learning, evolutionary computing, web-based systems and intelligent agent systems, have immensely contributed in the field of interactive systems. The personalization of intelligent interactive systems has become reality. Researchers are working on fusing adaptivity and learning in interactive systems. Intelligent recommender systems, intelligent tutoring systems, intelligent web-shops, intelligent interactive TV, intelligent mobile services, affective systems and narrative environments constitute typical intelligent interactive systems. However, the list of intelligent interactive systems is not exhausted to the aforementioned applications, as research and developments in the area expand to many more applications.

The main aim of this book is to report a sample of the most recent advances in the field of intelligent interactive systems in knowledge-based environments. This book consists of ten chapters reflecting the theoretical foundations as well as typical applications in the area of intelligent interactive systems.

We wish to express our gratitude to the authors and reviewers for their wonderful contributions. Thanks are due to Springer-Verlag for their editorial support. We would also like to express our sincere thanks to Ms Sridevi Ravi for her wonderful editorial support. We believe that this book would help in creating interest among researchers and practitioners towards realizing human-like machines. This book would prove useful to the researchers, professors, research students and practitioners as it reports novel research work on challenging topics in the area of intelligent interactive systems. Moreover, special emphasis has been put on highlighting issues concerning the development process of such complex interactive systems, thus revisiting the difficult issue of knowledge engineering of such systems. In this way, the book aims at providing the readers with a better understanding of how intelligent interactive systems can be successfully implemented to incorporate recent trends and advances in theory and applications of intelligent systems.

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