



improve the human-computer interface. This paper provides an introduction to artificial intelligence and then proposes a number of methods for using AI to improve the human-machine interaction. AN INTRODUCTION TO ARTIFICIAL INTELLIGENCE Definition There are many definitions of artificial intelligence (AI) running from the very general to the very detailed. Perhaps the most well accepted general definition is that by Elaine Rich: "Artificial intelligence is the study of how to make computers do things at which, at the moment, people are better", (Rich, 1983). A good example of a detailed definition is provided by the Brattle Research Corporation; "In simplified terms, artificial intelligence works with pattern matching methods which attempt to describe objects, events or processes in terms of their qualitative features and logical and computational relationships," (Mishkoff, 1985).

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regarding legislative, legal, social, technical, and ethical challenges, such as the tension between privacy and security Describes the fundamentals of traditional computer network security, and common threats to security Reviews the current landscape of tools, algorithms, and professional best practices in use to maintain security of digital systems Discusses the security issues introduced by the latest generation of network technologies, including mobile systems, cloud computing, and blockchain Presents exercises of varying levels of difficulty at the end of each chapter, and concludes with a diverse selection of practical projects Offers supplementary material for students and instructors at an associated website, including slides, additional projects, and syllabus suggestions This important textbook/reference is an invaluable resource for students of computer science, engineering, and information management, as well as for practitioners working in data- and information-intensive industries.

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