Artificial Intelligence: Foundations, Theory, and Algorithms

Virginia Dignum

Responsible Artificial Intelligence

How to Develop and Use AI in a Responsible Way

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Series: Artificial Intelligence: Foundations, Theory, and Algorithms

- Urgency of this issue increasingly acknowledged by researchers, technologists, and policymakers
- Author discusses both classical, philosophical treatments of ethical issues and the implications in modern, algorithmic systems
- Suitable for undergraduate students and for interested and concerned researchers, practitioners, and citizens

In this book, the author examines the ethical implications of Artificial Intelligence systems as they integrate and replace traditional social structures in new sociocognitive-technological environments. She discusses issues related to the integrity of researchers, technologists, and manufacturers as they design, construct, use, and manage artificially intelligent systems; formalisms for reasoning about moral decisions as part of the behavior of artificial autonomous systems such as agents and robots; and design methodologies forsocial agents based on societal, moral, and legal values. Throughout the book the author discusses related work, conscious of both classical, philosophical treatments of ethical issues and the implications in modern, algorithmic systems, and she combines regular references and footnotes with suggestions for further reading. This short overview is suitable for undergraduate students, in both technical and non-technical courses, and for interested and concerned researchers, practitioners, and citizens.

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