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## **Salem Press Announces** ***Principles of Robotics & Artificial Intelligence, Second Edition***

This second edition, updated from 2018, incorporates the most recent developments in this fascinating and ever-changing field. This volume provides readers with the important information they need to understand the basic concepts of artificial intelligence as well as ways that both AI and robotics can be successfully incorporated into manufacturing, transportation, education, and medicine.

This new edition has been updated and expanded to include the latest developments in artificial intelligence, including ChatGPT and other chatbots, machine learning, and open-source AI. The text also discusses the role AI and robotics play in popular culture and modern society, recent calls to regulate the artificial intelligence industry and how the industry, is expected to evolve in the future.

More than 120 easy-to-understand entries, many with illustrations and photographs, cover:

- Augmented Reality
- Machine Learning
- Knowledge Acquisition
- Pattern Recognition
- Self-Management
- Virtual Reality

This new edition will be an important addition to high school and undergraduate libraries with a focus on providing up-to-date resources for students engaged in STEM studies as well as to science collections at all levels.

The work starts off with a comprehensive Editor's Introduction to the topic of robotics and artificial intelligence written by Richard M. Renneboog, M.Sc. Beginning with ancient accounts of automatons and descriptions of the earliest known calculating and computing devices, this introduction gives a brief account of the evolution of these fields up to the present day.

Following the Introduction, *Principles of Robotics & Artificial Intelligence, Second Edition* includes 120+ entries that follow a convenient alphabetical arrangement, making topics easy to locate.

These entries cover many important aspects of AI and robotics, including basic principles of robotic motion and engineering, neural engineering and human-computer interaction, programming languages and operating systems, and the mathematics that govern computation. The role of robotics and AI in war, fraud, and terrorism is also examined, as well as how these fields are portrayed in popular culture, which ultimately reflects how we perceive the line between human and machine.

Entries begin by specifying related Fields of Study, followed by an Abstract and then a list of Key Concepts summarizing important points; all entries end with a helpful Further Reading section.

This work also includes helpful appendices, including:

- Bibliography;
- Glossary;
- Organizations;
- Subject Index

Salem Press extends appreciation to all involved in the development and production of this work. Names and affiliations of contributors to this work follow the Editor's Introduction.

*Principles of Robotics & Artificial Intelligence, Second Edition*, as well as all Salem Press reference books, is available in print and as an e-book. Please visit [www.salempress.com](http://www.salempress.com) for more information.

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