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Humanoid Robots

Evolution, Automation, and Security Challenges

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This book offers a comprehensive and timely exploration of humanoid robotics—bridging the rapid advances in artificial intelligence and automation with the complex security, ethical, and societal challenges their emergence creates. From their historical roots to today's most advanced systems, it examines how humanoids are reshaping the world and, critically, how we can ensure their safe and responsible evolution.

Each chapter simplifies complex ideas through clear explanations, research-driven insights, and relatable examples—stripping away jargon and unnecessary complexity. If you've ever asked:

- *How did we get here?*
- *What can humanoids really do?*
- *Are they secure, and are we?*

This book provides the answers. It reveals what's happening beneath the surface and shows how we can shape the future rather than be blindsided by it.

For serving engineers, AI researchers, roboticists, cybersecurity professionals, policymakers, and informed readers alike, this essential guide looks beyond technical details to address the vulnerabilities of autonomous systems, the ethics of human-machine interaction, and the evolving legal frameworks governing them. It equips professionals and curious readers with the critical understanding needed to design, deploy, and regulate humanoids responsibly, grounded in both technical rigor and real-world policy insight.
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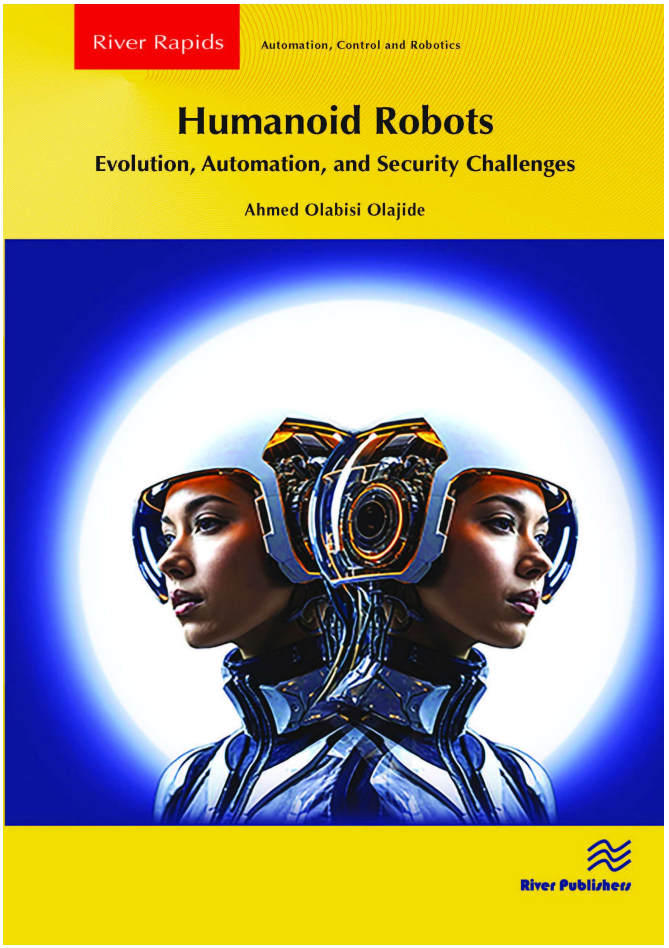

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Humanoid robots, artificial intelligence (AI), machine learning (ML), AI safety, cybersecurity, adversarial robustness, data privacy, algorithmic bias, ethical AI, robot ethics, legal liability, AI regulation, robot autonomy, humanâ€“robot interaction, automation.

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