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Sommario/riassunto	This book delves into the forefront of robotics and AI with this scholarly collection from the 11th International Conference on Robot Intelligence Technology and Applications (RiTA) Volume 1. This book consists of two Sections/Chapters, namely Sensors, Signals and Systems and Robotics, Automation and Control. The former elucidates the pivotal role of sensors, signals and systems in propelling advancements in robotics and AI, while the latter illuminates the transformative power of autonomous systems across various sectors, from intricate surgical procedures to complex manufacturing processes. This book is an indispensable resource for both researchers and practitioners, offering a comprehensive overview of the digital trajectory of robotics and AI.