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Introduction to Autonomous Mobile Robots (2nd Revised edition)

By Roland Siegwart, Illah Reza Nourbakhsh, Davide Scaramuzza

MIT Press Ltd. Hardback. Book Condition: new. BRAND NEW, Introduction to Autonomous Mobile Robots (2nd Revised edition), Roland Siegwart, Illah Reza Nourbakhsh, Davide Scaramuzza, Mobile robots range from the Mars Pathfinder mission's teleoperated Sojourner to the cleaning robots in the Paris Metro. This text offers students and other interested readers an introduction to the fundamentals of mobile robotics, spanning the mechanical, motor, sensory, perceptual, and cognitive layers the field comprises. The text focuses on mobility itself, offering an overview of the mechanisms that allow a mobile robot to move through a real world environment to perform its tasks, including locomotion, sensing, localization, and motion planning. It synthesizes material from such fields as kinematics, control theory, signal analysis, computer vision, information theory, artificial intelligence, and probability theory. The book presents the techniques and technology that enable mobility in a series of interacting modules. Each chapter treats a different aspect of mobility, as the book moves from low-level to high-level details. It covers all aspects of mobile robotics, including software and hardware design considerations, related technologies, and algorithmic techniques. This second edition has been revised and updated throughout, with 130 pages of new material on such topics as locomotion, perception, localization, and...


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