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Sommario/riassunto	This book covers a variety of topics in the field of mechatronics engineering, with a special focus on innovative control systems and automation concepts for a wide range of applications. Based on a set of papers presented at the 2nd International Conference "Innovation in Engineering", ICIE, held in Minho, Portugal, on June 28-30, 2022, the chapters report on cutting-edge control algorithms for mobile robots, automatic monitoring systems and intelligent predictive maintenance techniques. They cover advanced scheduling, risk-assessment and decision-making strategies, and their applications in industrial production, training and education, and service organizations. This volume, which belongs to a three-volume set, provides engineering researchers and professionals with a timely overview and extensive information on trends and technologies behind the future developments of mechatronics systems in the era of Industry 4.0.