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Soggetti	Automatic control Robotics Automation Artificial intelligence Electrical engineering Application software Control, Robotics, Automation Artificial Intelligence Electrical and Electronic Engineering Computer and Information Systems Applications
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Development and Impacts of Automation -- Automation Theory and Sceintific Foundations -- Automation Design: Theory, Elements, and

Methods -- Automation Design: Theory and Methods of Integration -- Automation Management -- Industrial Automation -- Infrastructure and Service Automation -- Automation in Medical and Healthcare Systems -- Home, Office, and Enterprise Automation -- Automation Case Studies and Statistics. .

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#### Sommario/riassunto

This thoroughly revised and updated second edition of the bestselling Springer Handbook of Automation provides the most advanced, comprehensive, and balanced coverage of the technical and engineering aspects of automation. Starting with a holistic discussion on the history and societal impacts of automation, the book provides the tools to understand, design and implement automation solutions. This includes: the scientific foundations, from traditional control theory to the latest developments in artificial intelligence and machine learning; the technical aspects of automation design, from hardware such as mechatronics and sensors to cyber-physical systems and human-machine interaction, to collaborative automation; the methods of automation integration in products, processes and services; and finally, the technical, economic and ethical management of automation. Readers will find the most complete and state-of-the-art overview on the implementation, effects and examples of automation in industrial contexts, as well as infrastructure, service, medical and healthcare, home, office and enterprise automation. The book concludes with up-to-date case studies from industrial forerunners. Edited by an internationally renowned and experienced expert and supported by a distinguished advisory board, this Springer Handbook offers a wealth of information for industry practitioners, aspiring engineers and automation experts alike. .

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