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## Sommario/riassunto

This book provides a comprehensive overview of state-of-the-art sensors technology in specific leading areas. Industrial researchers,

engineers and professionals can find information on the most advanced technologies and developments, together with data processing. Further research covers specific devices and technologies that capture and distribute data to be processed by applying dedicated techniques or procedures, which is where sensors play the most important role. The book provides insights and solutions for different problems covering a broad spectrum of possibilities, thanks to a set of applications and solutions based on sensory technologies. Topics include:

- Signal analysis for spectral power
- 3D precise measurements
- Electromagnetic propagation
- Drugs detection
- e-health environments based on social sensor networks
- Robots in wireless environments, navigation, teleoperation, object grasping, demining
- Wireless sensor networks
- Industrial IoT
- Insights in smart cities
- Voice recognition
- FPGA interfaces
- Flight mill device for measurements on insects
- Optical systems: UV, LEDs, lasers, fiber optics
- Machine vision
- Power dissipation
- Liquid level in fuel tanks
- Parabolic solar tracker
- Force sensors
- Control for a twin rotor

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