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Soggetti	Internet of things Biophysics Senses and sensation Materials Detectors Optical materials Internet of Things Sensory Systems Sensors and biosensors Optical Materials
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Nota di contenuto	A Novel Carbon Paste Electrode for Convenient and Efficient Auditory Brainstem Response Acquisition: A Pilot Study -- ShiroNeko, a Stationmaster Robot that Operates an Unmanned Station -- Analysis of the SO Adsorption on Boron, Nitrogen and Phosphorous Doped Monolayer Silicene-A First Principle Study -- Micro Sized Interdigital Capacitor for Gases Detection Based On Graphene Oxide Coating -- AE-Sleep: An Adaptive Enhancement Sleep Quality System Utilizing Data Mining and Adaptive Model -- Capability Evaluation of Photothermal Frequency Modulation Technique for Screening Defective of Surface-Mounted Capacitor -- Microwave-Assisted Generation of Secondary Nanoparticles and Flame-Assisted Generation of an Amorphous Layer for Improving NO ₂ Gas Sensing Behaviors: A Review -- A Cognitive

Digital Twin Architecture for Cybersecurity in IoT-based Smart Homes
-- A Solution to Polynomial Unit Commitment Problems Using
Nonlinear Programming -- Quantifying the Known Unknowns:
Estimating Water Take with Optical Remote Sensing and High-
Resolution LiDAR DEMs -- Development of a new Line Illumination for
Industrial Hyperspectral Imaging Systems -- Development of a
Compact IR-ATR Sensor for Sugar Content Measurement in Liquid
Foods -- Development of Loop Animated Full-Color Metasurface
Hologram with High Color Reproduction -- Admittance-type
Multifunctional Sensor Based System and its Controller Design --
Fabrication of Linear Polarization-Separating Silicon Metalens at Long-
Wavelength Infrared.

Sommario/riassunto

This book gathers the latest advances, innovations, and applications in the field of sensing technology, as presented by international researchers and engineers at the 15th International Conference on Sensing Technology (ICST), held in Sydney, Australia on December 5–7, 2022. Contributions include a wide range of topics such as: vision sensing, sensor signal processing, sensors phenomena and modelling, sensor characterization, smart sensors and sensor fusion, electromagnetic, chemical and physical sensors, electronic nose technology, biosensors, nano sensors, wireless sensors and WSN, Internet of Things, optical sensors, sensor arrays, intelligent sensing, Internet-based and remote data acquisition. The contributions, which were selected by means of a rigorous international peer-review process, present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists.