1. Record Nr. UNINA9910705755903321

Autore	Lee Homer Q.
Titolo	Algorithm for fixed-range optimal trajectories / / Homer Q. Lee and Heinz Erzberger
Pubbl/distr/stampa	Washington, D.C. : , : National Aeronautics and Space Administration, Scientific and Technical Information Branch, , July 1980
Descrizione fisica	1 online resource (viii, 77 pages) : illustrations
Collana	NASA technical paper ; ; 1565
Soggetti	Aeronautics - United States - Communication systems Aeronautics - Communication systems Algorithms Computer programs Cost reduction Hamiltonian functions Trajectory optimization Online resources. United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"July 1980."
Nota di bibliografia	Includes bibliographical references (page 77).

2. Record Nr. UNINA9910557609903321

Autore	Corradi Gábor
Titolo	New Trends in Lithium Niobate : From Bulk to Nanocrystals
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (382 p.)
Soggetti	Research and information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The present volume "New Trends in Lithium Niobate: From Bulk to Nanocrystals" contains the materials of a Special Issue of the MDPI journal Crystals dedicated to the memory of Prof. Dr. Ortwin F. Schirmer and provides a new synopsis of his research focusing on LiNbO3. It also includes recent developments, exemplifying the continued interest in this outstanding ferroelectric, non-linear optical and holographic crystal as a workhorse for testing and realizing new ideas and applications.This book starts with reviews on intrinsic and extrinsic crystal defects in LiNbO3 of single-crystal, thin-film or nano-powder forms, studied by various optical, magnetic resonance and nuclear methods, clarifying in particular the reasons for the suppression of anion vacancy formation upon thermal reduction, mechano-chemical processing or irradiations of various types. The reviews are followed by research papers on the experimental and theoretical investigation of small polarons, together with recent results on the properties of Li(Nb,Ta)O3 mixed crystals. Among the various contributions dealing with nonlinear optical applications, papers on device development, entangled photon pair generation and thin films on the Lithium Niobate On Insulator (LNOI) platform can also be found.

3. Record Nr. UNINA9910299696403321

Titolo	Progress in Automation, Robotics and Measuring Techniques : Volume 2 Robotics / / edited by Roman Szewczyk, Cezary Zieliski, Magorzata Kaliczyska
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-15847-3
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (340 p.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5365 ; ; 351
Disciplina	629.8
Soggetti	Computational intelligence Control engineering Robotics Automation Artificial intelligence Measurement Measuring instruments Computational Intelligence Control, Robotics, Automation Artificial Intelligence Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Forming of Operational Characteristics of an Orthotic Robot by Influencing Parameters of its Drive Systems -- Lightweight RGB-D SLAM System for Search and Rescue Robots -- Affordable Multi-Legged Robots for Research and STEM Education: A Case Study of Design and Technological Aspects -- Falcon: A Compact Multirotor Flying Platform with High Load Capability -- TAPAS: A Robotic Platform for Navigation in Outdoor Environments -- NAO-mark vs QR-code Recognition by Nao Robot Vision -- Hive Collective Intelligence for Cloud Robotics. A Hybrid Distributed Robotic Controller Design for Learning and Adaptation -- The Autonomous Return Control System for Mobile Platform, Used in CBRN Hazards -- Navigation Module for Mobile Robot

-- An Efficient PSO-based Method for an Identification of a Quadrotor Model Parameters -- User Needs and Requirements for the Mobility Assistance and Activity Monitoring Scenario within the RAPP Project -- Safety Module Based on Gyroscopie in the System for Verticalization and Aiding Motion of the Disabled -- Gait Trajectory Planing for CIE Exoskeleton -- Specification of Abstract Robot Skills in Terms of Control System Behaviours -- Construction and Signal Filtering in Quadrotor -- Adaptive Optical Inspection System with Use of Reconfigurable Manipulator -- Simulation-Based Evaluation of Robot-Assisted Wireless Sensors Positioning -- Small Remotely Operated Screw-propelled Vehicle -- HMI with Vision System to Control Manipulator by Operator Hand Movement -- A Comparison of Control Strategies for 4DoF Model of Unmanned Bicycle Robot Stabilised by Inertial Wheel -- Integration of Qualitative and Quantitative Spatial Data within a Semantic Map for Service Robots -- Social Inclusion with Robots: a RAPP case study using NAO for technology illiterate elderly at Ormylia Foundation -- On the Application of QR Codes for Robust Self-Localization of Mobile Robots in Various Application Scenarios -- Reconfigurable Agent Architecture for Robots Utilising Cloud Computing -- Kinematic interactions between orthotic robot and a human -- CIE-Hand Towards Prosthetic Limb -- Merging Robotics and AAL ontologies: The RAPP methodology -- In-Motion Balance Recovery of a Humanoid Robot under Severe External Disturbances -- Exploring Open Street Map Publicly Available Information for Autonomous Robot Navigation -- Two Mode Impedance Control of Velma Service Robot Redundant Arm -- The Social Construction of Creativity in Educational Robotics.

Sommario/riassunto

This book presents recent progresses in control, automation, robotics, and measuring techniques. It includes contributions of top experts in the fields, focused on both theory and industrial practice. The particular chapters present a deep analysis of a specific technical problem which is in general followed by a numerical analysis and simulation, and results of an implementation for the solution of a real world problem. The presented theoretical results, practical solutions and guidelines will be useful for both researchers working in the area of engineering sciences and for practitioners solving industrial problems. .