

1. Record Nr.	UNISA996466440003316
Titolo	Intelligent Robotics and Applications [[electronic resource]] : 12th International Conference, ICIRA 2019, Shenyang, China, August 8–11, 2019, Proceedings, Part IV // edited by Haibin Yu, Jinguo Liu, Lianqing Liu, Zhaojie Ju, Yuwang Liu, Dalin Zhou
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-27538-8
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XVI, 737 p. 468 illus., 376 illus. in color.)
Collana	Lecture Notes in Artificial Intelligence ; ; 11743
Disciplina	629.892
Soggetti	Artificial intelligence Computer organization Optical data processing User interfaces (Computer systems) Computer simulation Algorithms Artificial Intelligence Computer Systems Organization and Communication Networks Image Processing and Computer Vision User Interfaces and Human Computer Interaction Simulation and Modeling Algorithm Analysis and Problem Complexity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	User Association and Power Allocation in UAV-based SWIPT System -- Joint Location Selection and Supply Allocation for UAV Aided Disaster Response System -- Energy Minimization for Rotary-Wing UAV Enabled WPCN -- Secrecy Energy efficiency maximization for UAV-aided communication systems -- An Efficient Image Quality Assessment Guidance Method for Unmanned Aerial Vehicle -- Equal Gain Combining Based Sub-Optimum Posterior Noncoherent Fusion Rule for Wireless Sensor Networks -- Secure Transmission Design for UAV-

Based SWIPT Networks -- Spectrum Sharing Scheme for Multi-UAVs
Relay Network Based on Matching Theory -- A Hybrid Multiagent
Collision Avoidance Method for Formation Control -- Improved neural
network 3D space obstacle avoidance algorithm for mobile robot -- An
Improved A* Algorithm Based on Loop Iterative Optimization in Mobile
Robot Path Planning -- Indoor Environment RGB-DT Mapping for
Security Mobile Robots -- Navigate to Remember: A Declarative
Memory Model for Incremental Semantic Mapping -- Variable Universe
Fuzzy Control for Direct Yaw Moment of Distributed Drive Electric
Vehicle -- Observer and Controller Design for State-Delay Takagi-
Sugeno Fuzzy Systems Subjected to Unknown Time-Varying Output
Delays -- Force control polishing device based on fuzzy adaptive
impedance control -- A Study of TSK Inference Approaches for Control
Problems -- FES Proportional Tuning Based on sEMG -- Application of
Haptic Virtual Fixtures on Hot-line Work Robot-assisted Manipulation
-- Haptic Feedback with a Reservoir Computing-Based Recurrent
Neural Network for Multiple Terrain Classification of a Walking Robot --
Kinematic Characteristics Analysis of a Double-ring Truss Deployable
Antenna Mechanism -- Conceptual Design of Ejection, Aerostat and
Rolling Group Detectors -- Experimental Research on Dynamic
Characteristics of Truss Structure for Modular Space Deployable Truss
Antenna -- The Study of Wheel Driving Torque Optimization of Mars
Rover with Active Suspension in Obstacle Crossing -- Designing,
Modeling and Testing of the Flexible Space Probe-Cone Docking and
Refueling Mechanism -- Dynamics modeling method of module
manipulator using Spatial Operator Algebra -- Object Dimension
Measurement Based on Mask R-CNN -- Research on Spatial Target
Classification and Recognition Technology Based on Deep Learning --
Planetary Rover Path Planning Based on Improved A* Algorithm -- A
Self-calibration Method of Lander Manipulator for Deep Space
Exploration Mission -- A Hybrid Deep Reinforcement Learning
Algorithm for Intelligent Manipulation -- Virtual-sensor-based
Planetary Soil Classification with Legged Robots -- Virtual force sensor
based on PSO-BP neural network for legged robots in planetary
exploration -- A Smooth Gait Planning Framework for Quadruped
Robot Based on Virtual Model Control -- An Adaptive Parameter
Identification Algorithm for Post-capture of a Tumbling Target --
Review of Research on the Chinese Space Station Robots -- Design of a
Sensor Insole for Gait Analysis -- Multiple Features Fusion System for
Motion Recognition -- Classification Methods of sEMG Through
Weighted Representation-based K-nearest Neighbor -- A Soft
Capacitive Wearable Sensing System for Lower-limb Motion Monitoring
-- Fault diagnosis and prediction method of SPC for engine block
based on LSTM neural network -- Real Time Object Detection Based on
Deep Neural Network -- A Fast and Robust Template Matching Method
with Rotated Gradient Features and Image Pyramid -- Surface Defect
Inspection Under a Small Training Set Condition -- A Collision-free
Path Planning Method using Direct Behavior Cloning -- 3D Pose
Estimation of Robot Arm with RGB Images Based on Deep Learning --
Straightness error assessment of linear axis of CNC machine tool based
on data-drive method -- View Invariant Human Action Recognition
Using 3D Geometric Features -- Non-concentric Circular Texture
Removal for Workpiece Defect Detection -- Sound source localization
based on PSVM algorithm -- Multi-scale densely connected dehazing
network -- Residual Attention Regression for 3D Hand Pose Estimation
-- Fixation Based Object Recognition in Autism Clinic Setting --
Towards Deep Learning based Robot Automatic Choreography System
-- An Underwater Robot Positioning Method based on EM-ELF Signals

-- Stereo Visual SLAM Using Bag of Point and Line Word Pairs -- Design and Recognition of Two-Dimensional Code for Mobile Robot Positioning -- A Separate Data Structure For Online Multi-hypothesis Topological Mapping -- Indoor navigation system using the Fetch robot -- Keyframe-based dynamic elimination SLAM system using YOLO detection -- Monocular Visual-Inertial SLAM with Camera-IMU Extrinsic Automatic Calibration and Online Estimation -- An Online Motion Planning Approach of Mobile Robots in Distinctive Homotopic Classes by a Sparse Roadmap.

Sommario/riassunto

The volume set LNAI 11740 until LNAI 11745 constitutes the proceedings of the 12th International Conference on Intelligent Robotics and Applications, ICIRA 2019, held in Shenyang, China, in August 2019. The total of 378 full and 25 short papers presented in these proceedings was carefully reviewed and selected from 522 submissions. The papers are organized in topical sections as follows: Part I: collective and social robots; human biomechanics and human-centered robotics; robotics for cell manipulation and characterization; field robots; compliant mechanisms; robotic grasping and manipulation with incomplete information and strong disturbance; human-centered robotics; development of high-performance joint drive for robots; modular robots and other mechatronic systems; compliant manipulation learning and control for lightweight robot. Part II: power-assisted system and control; bio-inspired wall climbing robot; underwater acoustic and optical signal processing for environmental cognition; piezoelectric actuators and micro-nano manipulations; robot vision and scene understanding; visual and motional learning in robotics; signal processing and underwater bionic robots; soft locomotion robot; teleoperation robot; autonomous control of unmanned aircraft systems. Part III: marine bio-inspired robotics and soft robotics: materials, mechanisms, modelling, and control; robot intelligence technologies and system integration; continuum mechanisms and robots; unmanned underwater vehicles; intelligent robots for environment detection or fine manipulation; parallel robotics; human-robot collaboration; swarm intelligence and multi-robot cooperation; adaptive and learning control system; wearable and assistive devices and robots for healthcare; nonlinear systems and control. Part IV: swarm intelligence unmanned system; computational intelligence inspired robot navigation and SLAM; fuzzy modelling for automation, control, and robotics; development of ultra-thin-film, flexible sensors, and tactile sensation; robotic technology for deep space exploration; wearable sensing based limb motor function rehabilitation; pattern recognition and machine learning; navigation/localization. Part V: robot legged locomotion; advanced measurement and machine vision system; man-machine interactions; fault detection, testing and diagnosis; estimation and identification; mobile robots and intelligent autonomous systems; robotic vision, recognition and reconstruction; robot mechanism and design. Part VI: robot motion analysis and planning; robot design, development and control; medical robot; robot intelligence, learning and linguistics; motion control; computer integrated manufacturing; robot cooperation; virtual and augmented reality; education in mechatronics engineering; robotic drilling and sampling technology; automotive systems; mechatronics in energy systems; human-robot interaction.

2. Record Nr.	UNINA9910562800703321
Autore	Torelli, Mario
Titolo	Opuscula Romana, 2010-2018 / Mario Torelli
Pubbl/distr/stampa	Pisa, : ETS, 2019
ISBN	978-88-467-5526-1
Descrizione fisica	324 p. : ill. ; 27 cm
Collana	Mousai ; 15
Disciplina	937
Locazione	FLFBC
Collocazione	937 TORE 01
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Scritti già pubblicati