

1. Record Nr.	UNINA9910484462003321
Titolo	Robot 2019: Fourth Iberian Robotics Conference : Advances in Robotics, Volume 2 // edited by Manuel F. Silva, José Luís Lima, Luís Paulo Reis, Alberto Sanfeliu, Danilo Tardioli
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-36150-0
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXII, 695 pages 407 illustrations, 303 illustrations in color.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5365 ; ; 1093
Disciplina	629.892
Soggetti	Automatic control Robotics Automation Computational intelligence Control, Robotics, Automation Computational Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Generalized Camera Array Model for Standard Plenoptic Cameras -- Evaluation of SLAM Algorithms for Highly Dynamic Environments -- An Aerial Robot Path Follower based on the 'Carrot chasing' Algorithm -- Low Cost Binaural System Based on the Echolocation -- Mind Perception of a Sociable Humanoid Robot: A Comparison Between Elderly and Young Adults -- A Manipulation Control Strategy for Granular Materials based on a Gaussian Mixture Model -- Object Classification for Robotic Platforms -- A Novel Model for Emotion Detection from Facial Muscles Activity -- A bio-Inspired Approach for Robot Swarm in Smart Factories -- Machine Learning Methods for Radar-based People Detection and Tracking by Mobile Robots -- Estimation of Human Forearm with Underactuated Grippers using Proprioceptive Feedback -- Integration of the Alexa Assistant as a Voice Interface for Robotics Platforms -- Design of a Robotic as a Service Platform to Perform Rehabilitation Therapies.

## Sommario/riassunto

This book gathers a selection of papers presented at ROBOT 2019 – the Fourth Iberian Robotics Conference, held in Porto, Portugal, on November 20th–22nd, 2019. ROBOT 2019 is part of a series of conferences jointly organized by the SPR – Sociedade Portuguesa de Robótica (Portuguese Society for Robotics) and SEIDROB – Sociedad Española para la Investigación y Desarrollo en Robótica (Spanish Society for Research and Development in Robotics). ROBOT 2019 built upon several previous successful events, including three biannual workshops and the three previous installments of the Iberian Robotics Conference, and chiefly focused on presenting the latest findings and applications in robotics from the Iberian Peninsula, although the event was also open to research and researchers from other countries. The event featured five plenary talks on state-of-the-art topics and 16 special sessions, plus a main/general robotics track. In total, after a stringent review process, 112 high-quality papers written by authors from 24 countries were selected for publication.

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