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Soggetti	Automatic control Robotics Automation Computational intelligence Control, Robotics, Automation Computational Intelligence
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Nota di contenuto	Design Optimization of a Ducted-Drone to Perform Inspection Operations -- Positioning System for Pipe Inspection with Aerial Robots Using Time of Flight Sensors -- Online Detection and Tracking of Pipes during UAV Flight in Industrial Environments -- Autonomous Drone-Based Powerline Insulator Inspection Via Deep Learning -- Development of A Semi-Autonomous Aerial Vehicle for Sewerage Inspection -- Cleaning Robot for Free Stall Dairy Barns: Sequential Control for Cleaning And Littering of Cubicles -- An Autonomous Guided Field Inspection Vehicle for 3D Woody Crops Monitoring -- Joint Instance Segmentation of Obstacles and Lanes Using Convolutional Neural Networks -- Acoustic Detection of Tagged Angelsharks from an Autonomous Sailboat -- Spherical Fully Covered UAV with Autonomous Indoor Localization -- Knowledge and Capabilities Representation for Visually Guided Robotic Bin Picking -- Web Based Robotic Simulator for Tactode Tangible Block Programming System -- Development of an Autonomous Mobile Towing Vehicle for Logistic Tasks.

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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