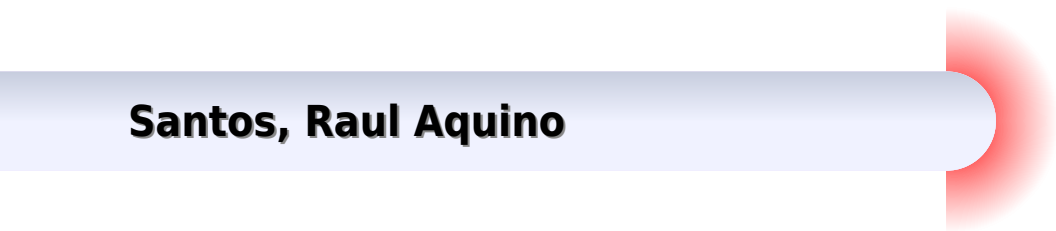




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Robot Operating System (ROS) Anis Koubaa, 2018-07-05 Building on the successful first and second volumes this book is the third volume of the Springer book on the Robot Operating System ROS The Complete Reference The Robot Operating System is evolving from year to year with a wealth of new contributed packages and enhanced capabilities Further the ROS is being integrated into various robots and systems and is becoming an embedded technology in emerging robotics platforms The objective of this third volume is to provide readers with additional and comprehensive coverage of the ROS and an overview of the latest achievements trends and packages developed with and for it Combining tutorials case studies and research papers the book consists of sixteen chapters and is divided into five parts Part 1 presents multi robot systems with the ROS In Part 2 four chapters deal with the development of unmanned aerial systems and their applications In turn Part 3 highlights recent work related to navigation motion planning and control Part 4 discusses recently contributed ROS packages for security ROS2 GPU usage and real time processing Lastly Part 5 deals with new interfaces allowing users to interact with robots Taken together the three volumes of this book offer a valuable reference guide for ROS users researchers learners and developers alike Its breadth of coverage makes it a unique resource

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