

1. Record Nr.	UNINA9910647787603321
Titolo	Robot Operating System (ROS) : The Complete Reference (Volume 7) // edited by Anis Koubaa
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031090622 9783031090615
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (239 pages)
Collana	Studies in Computational Intelligence, , 1860-9503 ; ; 1051
Disciplina	629.892543 629.892
Soggetti	Automatic control Robotics Automation Operating systems (Computers) Artificial intelligence Computational intelligence Control, Robotics, Automation Operating Systems Artificial Intelligence Computational Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	micro-ROS- Lab-scale Smart Factory Implementation Using ROS -- High Fidelity IMU and Wheel Encoder Models for ROS based AGV Simulations -- Autonomous Laser-Induced Breakdown Spectroscopy System for Chemical and Mineralogical Designation of Interplanetary.
Sommario/riassunto	This book is the seventh volume of the successful book series on Robot Operating System: The Complete Reference, which started in 2016. The book's objective is to provide the reader with comprehensive coverage on the Robot Operating Systems (ROS) and the latest trends and contributed systems. ROS has been considered as the primary development framework for robotics applications. There are seven

chapters organized into three parts. Part I presents one chapter dealing with ROS2 and presents a tutorial on using the MediaPipe framework with ROS2. In Part II, three chapters present new contributions of ROS frameworks and applications, including micro-ROS, Autonomous 3D Thermal Mapping of Disaster Environments, and Lab-scale Smart Factory Implementation Using ROS. Part III provides contributions on how to use ROS for cooperative robotics behaviors, particularly in platoon applications, in addition to developing new perception and control algorithms with sensing technologies. This book will be a valuable companion for ROS users and developers to learn more about ROS capabilities and features. .

2. Record Nr.

Titolo

UNINA9910483565903321

Advances in Data Mining: Applications and Theoretical Aspects : 14th Industrial Conference, ICDM 2014, St. Petersburg, Russia, July 16-20, 2014, Proceedings / / edited by Petra Perner

Pubbl/distr/stampa

Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014

ISBN

3-319-08976-5

Edizione

[1st ed. 2014.]

Descrizione fisica

1 online resource (X, 229 p. 74 illus.)

Collana

Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 8557

Disciplina

004

Soggetti

Data mining
Multimedia systems
Computer vision
Application software
Database management
Artificial intelligence
Data Mining and Knowledge Discovery
Multimedia Information Systems
Computer Vision
Computer and Information Systems Applications
Database Management
Artificial Intelligence

Lingua di pubblicazione

Inglese

Formato

Materiale a stampa

Livello bibliografico

Monografia

Note generali

Bibliographic Level Mode of Issuance: Monograph

Nota di contenuto

Theoretical aspects of data mining -- Applications of data mining.- Multimedia data -- Marketing -- Medicine -- Agriculture -- Process control -- Industry and society.

Sommario/riassunto

This book constitutes the refereed proceedings of the 14th Industrial Conference on Advances in Data Mining, ICDM 2014, held in St. Petersburg, Russia, in July 2014. The 16 revised full papers presented were carefully reviewed and selected from various submissions. The topics range from theoretical aspects of data mining to applications of data mining, such as in multimedia data, in marketing, in medicine and agriculture and in process control, industry and society.