1.	Record Nr. Autore Titolo	UNINA9910788963203321 Wang Zhan Simultaneous localization and mapping [[electronic resource]] : exactly sparse information filters / / Zhan Wang, Shoudong Huang, Gamini Dissanayake
	Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific, c2011
	ISBN	1-283-43379-6 9786613433794 981-4350-32-X
	Descrizione fisica	1 online resource (208 p.)
	Collana	New frontiers in robotics ; ; v. 3
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	Disciplina	629.892637
	Soggetti	Mobile robots Robots - Control systems Sparse matrices Robotics Mappings (Mathematics)
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references (p. 180-194).
	Nota di contenuto	Contents; Preface; Acknowledgments; Chapter 1 Introduction; 1.1 The SLAM Problem and Its Applications; 1.1.1 Description of the SLAM Problem; 1.1.2 Applications of SLAM; 1.2 Summary of SLAM Approaches; 1.2.1 EKF/EIF based SLAM Approaches; 1.2.2 Other SLAM Approaches; 1.3 Key Properties of SLAM; 1.3.1 Observability; 1.3.2 EKF SLAM Convergence; 1.3.3 EKF SLAM Consistency; 1.4 Motivation; 1.5 Book Overview; Chapter 2 Sparse Information Filters in SLAM; 2.1 Information Matrix in the Full SLAM Formulation; 2.2 Information Matrix in the Conventional EIF SLAM Formulation 2.3 Meaning of Zero Off-diagonal Elements in Information Matrix2.4 Conditions for Achieving Exact Sparseness; 2.5 Strategies for Achieving Exact Sparseness; 2.5.1 Decoupling Localization and Mapping; 2.5.2 Using Local Submaps; 2.5.3 Combining Decoupling and Submaps; 2.6 Important Practical Issues in EIF SLAM; 2.7 Summary; Chapter 3 Decoupling Localization and Mapping; 3.1 The D-SLAM Algorithm;

	 3.1.1 Extracting Map Information from Observations; 3.1.2 Key Idea of D-SLAM; 3.1.3 Mapping; 3.1.4 Localization; 3.2 Structure of the Information Matrix in D-SLAM 3.3 Efficient State and Covariance Recovery3.3.1 Recovery Using the Preconditioned Conjugated Gradient (PCG) Method; 3.3.2 Recovery Using Complete Cholesky Factorization; 3.4 Implementation Issues; 3.4.1 Admissible Measurements; 3.4.2 Data Association; 3.5 Computer Simulations; 3.6 Experimental Evaluation; 3.6.1 Experiment in a Small Environment; 3.6.2 Experiment Using the Victoria Park Dataset; 3.7 Computational Complexity; 3.7.1 Storage; 3.7.2 Localization; 3.7.3 Mapping; 3.7.4 State and Covariance Recovery; 3.8 Consistency of D-SLAM; 3.9 Bibliographical Remarks; 3.10 Summary Chapter 4 D-SLAM Local Map Joining Filter4.1 Structure of D-SLAM Local Map Joining Relative Location Information in Local Map; 4.2.2 Obtaining Relative Location Information in Local Map; 4.2.1 Obtaining Relative Location Information in Local Map; 4.3.3 Global Map Update; 4.3.1 Measurement Model; 4.3.2 Updating the Global Map; 4.3.3 Sparse Information Matrix; 4.4 Implementation Issues; 4.4.1 Robot Localization; 4.4.2 Data Association; 4.4.3 State and Covariance Recovery 4.4.4 When to Start a New Local Map4.5 Computational Complexity; 4.5.1 Storage; 4.5.2 Local Map Construction; 4.5.3 Global Map Update; 4.5.4 Rescheduling the Computational Effort; 4.6 Computer Simulations; 4.6.1 Simulation in a Small Area; 4.6.2 Simulation in a Large Area; 4.7 Experimental Evaluation; 4.8 Bibliographical Remarks; 4.9 Summary; Chapter 5 Sparse Local Submap Joining Filter; 5.1 Structure of Sparse Local Submap Joining Filter; 5.1.1 Input to SLSJF - Local Maps; 5.1.2 Output of SLSJF - One Global Map; 5.2 Fusing Local Maps into the Global Map
Sommario/riassunto	Simultaneous localization and mapping (SLAM) is a process where an autonomous vehicle builds a map of an unknown environment while concurrently generating an estimate for its location. This book is concerned with computationally efficient solutions to the large scale SLAM problems using exactly sparse Extended Information Filters (EIF). The invaluable book also provides a comprehensive theoretical analysis of the properties of the information matrix in EIF-based algorithms for SLAM. Three exactly sparse information filters for SLAM are described in detail, together with two efficient and exact methods for recovering the state vector and the covariance matrix. Proposed algorithms are extensively evaluated both in simulation and through experiments.