Record Nr.	UNINA9910153273203321
Titolo	Geometry, Analysis and Dynamics on sub-Riemannian Manifolds [[electronic resource] ] : Volume I / / Davide Barilari, Ugo Boscain, Mario Sigalotti
Pubbl/distr/stampa	Zuerich, Switzerland, : European Mathematical Society Publishing House, 2016
ISBN	3-03719-662-9
Descrizione fisica	1 online resource (332 pages)
Collana	EMS Series of Lectures in Mathematics (ELM) ; , 2523-5176
Classificazione	53-xx35-xx49-xx60-xx
Soggetti	Differential & Riemannian geometry Differential geometry Partial differential equations Calculus of variations and optimal control; optimization Probability theory and stochastic processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Some topics of geometric measure theory in Carnot groups / Francesco Serra Cassano Hypoelliptic operators and some aspects of analysis and geometry of sub-Riemannian spaces / Nicola Garofalo Sub- Laplacians and hypoelliptic operators on totally geodesic Riemannian foliations / Fabrice Baudoin.
Sommario/riassunto	Sub-Riemannian manifolds model media with constrained dynamics: motion at any point is only allowed along a limited set of directions, which are prescribed by the physical problem. From the theoretical point of view, sub-Riemannian geometry is the geometry underlying the theory of hypoelliptic operators and degenerate diffusions on manifolds. In the last twenty years, sub-Riemannian geometry has emerged as an independent research domain, with extremely rich motivations and ramifications in several parts of pure and applied mathematics, such as geometric analysis, geometric measure theory, stochastic calculus and evolution equations together with applications in mechanics, optimal control and biology. The aim of the lectures collected here is to present sub-Riemannian structures for the use of

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