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Descrizione fisica	1 online resource (452 p.)
Collana	Animal Signals and Communication, , 2197-7305 ; ; 2
Disciplina	591.594
Soggetti	Behavioral sciences Animal physiology Neurobiology Evolutionary biology Noise control Behavioral Sciences Animal Physiology Evolutionary Biology Noise Control
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 at the end of each chapters and index.
Nota di contenuto	Introduction -- Signal Detection, Noise, and the Evolution of Communication -- Masking by Noise in Acoustic Insects: Problems and Solutions -- Effects of Noise on Sound Detection and Acoustic Communication in Fishes -- Anuran Acoustic Signal Production in Noisy Environments -- Anuran Acoustic Signal Perception in Noisy Environments -- Avian Vocal Production in Noise -- Avian Sound Perception in Noise -- Effects of Noise on Acoustic Signal Production in Marine Mammals -- Effects of Noise on Sound Perception in Marine Mammals -- Noise in Visual Communication: Motion from Wind-Blown Plants -- Neural Noise in Electro communication —from Burden to Benefits -- Noise in Chemical Communication -- Anthropogenic Noise and Conservation.
Sommario/riassunto	The study of animal communication has led to significant progress in our general understanding of motor and sensory systems, evolution,

and speciation. However, one often neglected aspect is that signal exchange in every modality is constrained by noise, be it in the transmission channel or in the nervous system. This book analyses whether and how animals can cope with such constraints, and explores the implications that noise has for our understanding of animal communication. It is written by leading biologists working on different taxa including insects, fish, amphibians, lizards, birds, and mammals. In addition to this broad taxonomic approach, the chapters also cover a wide array of research disciplines: from the mechanisms of signal production and perception, to the behavioural ecology of signalling, the evolution of animal communication, and conservation issues. This volume promotes the integration of the knowledge gained by the diverse approaches to the study of animal communication and, at the same time, highlights particularly interesting fields of current and future research.

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