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	Autore	Nietzsche, Friedrich
	Titolo	La gaia scienza e Idilli di Messina / Friedrich Nietzsche ; nota introduttiva di Giorgio Colli ; versione di Ferruccio Masini
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2.	Record Nr.	UNINA9910986137903321
	Autore	Eguchi Shinto
	Titolo	Minimum Gamma-Divergence for Regression and Classification Problems / / by Shinto Eguchi
	Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
	ISBN	9789819788804
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	Descrizione fisica	1 online resource (212 pages)
	Collana	JSS Research Series in Statistics, , 2364-0065
	Disciplina	519.5
	Soggetti	Statistics Stochastic models Mathematical statistics Machine learning Regression analysis Biometry Statistical Theory and Methods Stochastic Modelling in Statistics Parametric Inference Machine Learning Linear Models and Regression Biostatistics Estadística Estadística matemàtica Aprenentatge automàtic

Anàlisi de regressió
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Nota di contenuto	1. Introduction -- 2. Framework of gamma-divergence -- 2.1. Scale invariance -- 2.2 GM divergence and HM divergence -- 3. Minimum divergence methods for generalized linear models -- 3.1. Bernoulli logistic model -- 3.2. Poisson log-linear model -- 3.3. Poisson point process model -- 4. Minimum divergence methods in machine learning -- 4.1. Multi-class AdaBoost -- 4.2. Boltzmann machine -- 5. gamma-divergence for real valued functions -- 6. Discussion.
Sommario/riassunto	This book introduces the gamma-divergence, a measure of distance between probability distributions that was proposed by Fujisawa and Eguchi in 2008. The gamma-divergence has been extensively explored to provide robust estimation when the power index α is positive. The gamma-divergence can be defined even when the power index α is negative, as long as the condition of integrability is satisfied. Thus, the authors consider the gamma-divergence defined on a set of discrete distributions. The arithmetic, geometric, and harmonic means for the distribution ratios are closely connected with the gamma-divergence with a negative α. In particular, the authors call the geometric-mean (GM) divergence the gamma-divergence when α is equal to -1. The book begins by providing an overview of the gamma-divergence and its properties. It then goes on to discuss the applications of the gamma-divergence in various areas, including machine learning, statistics, and ecology. Bernoulli, categorical, Poisson, negative binomial, and Boltzmann distributions are discussed as typical examples. Furthermore, regression analysis models that explicitly or implicitly assume these distributions as the dependent variable in generalized linear models are discussed to apply the minimum gamma-divergence method. In ensemble learning, AdaBoost is derived by the exponential loss function in the weighted majority vote manner. It is pointed out that the exponential loss function is deeply connected to the GM divergence. In the Boltzmann machine, the maximum likelihood has to use approximation methods such as mean field approximation because of the intractable computation of the partition function. However, by considering the GM divergence and the exponential loss, it is shown that the calculation of the partition function is not necessary, and it can be executed without variational inference. .