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	Titolo	An Introduction to Latent Class Analysis : Methods and Applications / / by Nobuoki Eshima
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	Collana	Behaviormetrics: Quantitative Approaches to Human Behavior, , 2524-4035 ; ; 14
	Disciplina	150.1943
	Soggetti	Statistics Psychometrics Statistics in Business, Management, Economics, Finance, Insurance Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences
	Lingua di pubblicazione	Inglese
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	Nota di contenuto	Overview of Basic Latent Structure Models -- Latent Class Cluster Analysis -- Latent Class Analysis with Ordered Latent Classes -- Latent Class Analysis with Latent Binary Variables: Application for Analyzing Learning Structures -- The Latent Markov Chain Model -- Mixed Latent Markov Chain Models -- Path Analysis in Latent Class Models.
	Sommario/riassunto	This book provides methods and applications of latent class analysis, and the following topics are taken up in the focus of discussion: basic latent structure models in a framework of generalized linear models, exploratory latent class analysis, latent class analysis with ordered latent classes, a latent class model approach for analyzing learning structures, the latent Markov analysis for longitudinal data, and path analysis with latent class models. The maximum likelihood estimation procedures for latent class models are constructed via the expectation–maximization (EM) algorithm, and along with it, latent profile and latent trait models are also treated. Entropy-based discussions for latent class models are given as advanced approaches, for example, comparison of latent classes in a latent class cluster model, assessing latent class models, path analysis, and so on. In observing human behaviors and

responses to various stimuli and test items, it is valid to assume they are dominatedby certain factors. This book plays a significant role in introducing latent structure analysis to not only young researchers and students studying behavioral sciences, but also to those investigating other fields of scientific research. .