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Titolo	Alternative Medicine / / edited by Hiroshi Sakagami
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Descrizione fisica	1 online resource (xi, 308 pages) : illustrations
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Soggetti	Alternative medicine
Lingua di pubblicazione	Inglese
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2. Record Nr.	UNINA9910483158003321
Autore	Yamato Hajime
Titolo	Statistics Based on Dirichlet Processes and Related Topics / / by Hajime Yamato
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-6975-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (VIII, 74 p. 7 illus.)
Collana	JSS Research Series in Statistics, , 2364-0065
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Soggetti	Statistics Mathematical statistics Applied Statistics Statistical Theory and Methods Mathematical Statistics
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Note generali	Includes index.

Nota di contenuto

Introduction -- Dirichlet process and Chinese restaurant process -- Nonparametric estimation of estimable parameter -- Random partition of positive integer.

Sommario/riassunto

This book focuses on the properties associated with the Dirichlet process, describing its use a priori for nonparametric inference and the Bayes estimate to obtain limits for the estimable parameter. It presents the limits and the well-known U- and V-statistics as a convex combination of U-statistics, and by investigating this convex combination, it demonstrates these three statistics. Next, the book notes that the Dirichlet process gives the discrete distribution with probability one, even if the parameter of the process is continuous. Therefore, there are duplications among the sample from the distribution, which are discussed. Because sampling from the Dirichlet process is described sequentially, it can be described equivalently by the Chinese restaurant process. Using this process, the Donnelly–Tavaré–Griffiths formulas I and II are obtained, both of which give the Ewens' sampling formula. The book then shows the convergence and approximation of the distribution for its number of distinct components. Lastly, it explains the interesting properties of the Griffiths–Engen–McCloskey distribution, which is related to the Dirichlet process and the Ewens' sampling formula.