1. Record Nr. UNINA9910298994203321

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Titolo	Computational Musicology in Hindustani Music / / by Soubhik Chakraborty, Guerino Mazzola, Swarima Tewari, Moujhuri Patra
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-11472-7
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (116 p.)
Collana	Computational Music Science, , 1868-0305
Disciplina	781.754
Soggetti	Application software Music Mathematics Computer science—Mathematics Statistics Computer Appl. in Arts and Humanities Mathematics in Music Mathematics of Computing Statistics and Computing/Statistics Programs
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.
Nota di contenuto	An Introduction to Hindustani Music -- The Role of Statistics in Computational Musicology -- Introduction to Rubato: The Music Software for Statistical Analysis -- Modeling the Structure of Raga Bhimpalashree: A Statistical Approach -- Analysis of Lengths and Similarity of Melodies in Raga Bhimpalashree -- Raga Analysis Using Entropy -- Modeling Musical Performance Data with Statistics -- A Statistical Comparison of Bhairav (A Morning Raga) and Bihag (A Night Raga) -- Seminatural Composition -- Concluding Remarks.
Sommario/riassunto	The book opens with a short introduction to Indian music, in particular classical Hindustani music, followed by a chapter on the role of statistics in computational musicology. The authors then show how to analyze musical structure using Rubato, the music software package for statistical analysis, in particular addressing modeling, melodic similarity and lengths, and entropy analysis; they then show how to

analyze musical performance. Finally, they explain how the concept of seminatural composition can help a music composer to obtain the opening line of a raga-based song using Monte Carlo simulation. The book will be of interest to musicians and musicologists, particularly those engaged with Indian music.