1.	Record Nr.	UNINA9910483948903321
	Titolo	Mathematics and Computation in Music : 6th International Conference, MCM 2017, Mexico City, Mexico, June 26-29, 2017, Proceedings / / edited by Octavio A. Agustín-Aquino, Emilio Lluis-Puebla, Mariana Montiel
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
	ISBN	3-319-71827-4
	Edizione	[1st ed. 2017.]
	Descrizione fisica	1 online resource (XI, 373 p. 147 illus.)
	Collana	Lecture Notes in Artificial Intelligence ; ; 10527
	Disciplina	780.051
	Soggetti	Application software
		Algorithms
		Computer science—Mathematics
		Music
		Computer Appl. in Arts and Humanities
		Artificial Intelligence
		Algorithm Analysis and Problem Complexity
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Primal-Circular Substitutions On the Group of Transformations of Classical Types of Seventh Chords Pairwise Well-Formed Modes and Transformations Homometry in the Dihedral Groups: Lifting Sets from Zn to Dn A Symmetric Quantum Theory of Modulation in Z20 Almost Difference Sets in Transformational Music Theory Algebra of Harmony Developing Software for Dancing Tango in Compás Using Inharmonic Strings in Musical Instruments Real-Time Compositional Procedures for Mediated Soloist-Ensemble Interaction: The Comprovisador Strange Symmetries Interval Content vs. DFT Probing Questions about Keys: Tonal Distributions through the DFT Abstract Gestures: A Unifying Concept in Mathematical Music Theory Mathematical Music Theory and the Musical Math Game – Two

	Creative Ontological Switches Hamiltonian Graphs as Harmonic Tools New Investigations in Rhythmic Oddity Polytopic Graph of Latent Relations: A Multiscale Structure Model for Music Segments Dynamic Time Warping for Automatic Musical Form Identification in Symbolical Musical Files Identification and Evolution of Musical Style I: Hierarchical Transition Networks and their Modular Structure A Fuzzy-Clustering Based Approach for Measuring Similarity Between Melodies The Evolution of Tango Harmony, 1910-1960 Determination of Compositional Systems through Systemic Modelling A Cluster Analysis for Mode Identification in Early Music Genres Cross Entropy as a Measure of Coherence and Uniqueness Complementary Collection and Ligeti's Combinatorial Tonality Probabilistic Generation of Ragtime Music from Classical Melodies Using Probabilistic Parsers to Support Composition of Salsa Music.
Sommario/riassunto	This book constitutes the thoroughly refereed proceedings of the 6th International Conference on Mathematics and Computation in Music, MCM 2017, held in Mexico City, Mexico, in June 2017. The 26 full papers and 2 short papers presented were carefully reviewed and selected from 40 submissions. The papers feature research that combines mathematics or computation with music theory, music analysis, composition, and performance. They are organized in topical sections on algebraic models, computer assisted performance, Fourier analysis, Gesture Theory, Graph Theory and Combinatorics, Machine Learning, and Probability and Statistics in Musical Analysis and Composition.