

1. Record Nr.	UNINA9910728944503321
Autore	Zheng Linshujie
Titolo	Classification of Musical Objects for Analysis and Composition // by Linshujie Zheng, Guerino Mazzola
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031301834 3031301838
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (156 pages)
Collana	Computational Music Science, , 1868-0313
Altri autori (Persone)	MazzolaG (Guerino)
Disciplina	781.2012
Soggetti	Mathematics—Data processing Mathematics Music Computational Mathematics and Numerical Analysis Applications of Mathematics Música Classificació Anàlisi musical Composició musical Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part I Initial Orientation -- 1 The Basic Problem of Classification -- Part II General Formal Concepts -- 2 Ontology, Ontology, and Creativity -- 3 Formal Representation of Musical Structures -- 4 Denotators over General Categories -- 5 Composition Denotators and Classification -- 6 Gestural Denotators: A First Overview -- 7 The Escher Theorem for Compositions and Gestures -- Part III Local Classification -- 8 Local Composition and Gesture Classification -- 9 Classification of Chords -- 10 Motif Classes -- 11 Third Chain Classes -- 12 Harmony through Third Chains -- 13 Counterpoint Worlds -- 14 Strong Interval Dichotomies -- 15 Microtonal Contrapuntal Theories -- 16 Dodecaphonic Rows -- Part IV Global Classification -- 17 Global Composition and Gesture Classification -- 18 The Classification

Theorem for Global Compositions -- 19 The Classification Problem of Global Gestures -- 20 Singular Homology of Hypergestures -- 21 Local Gestures, Structures of Knots, and Local Gestures as Local Compositions -- Part V Classification and Creativity -- 22 Gestural Interpretation and Future Developments -- Part VI References, Index -- 23 Classification Lists.

Sommario/riassunto

This book presents and discusses the fundamental topic of classification of musical objects, such as chords, motifs, and gestures. Their classification deals with the exhibition of isomorphism classes. Our structure types include local and global constructions, the latter being similar to global structures in geometry, such as differentiable manifolds. The discussion extends to the role, which classification plays for the creative construction of musical compositions. Our examples include references to classical compositions, such as Beethoven's sonatas, and some of the author's own compositions of classical and jazz styles. We also discuss software that enables the application of classification to musical creativity. The volume is addressed to an audience that would apply classification to programming and creative musical construction.
