Title (en)
SYSTEM AND METHODS FOR AUTOMATICALLY GENERATING A MUSICAL COMPOSITION HAVING AUDIBLY CORRECT FORM

Title (de)
SYSTEM UND VERFAHREN ZUM AUTOMATISCHEN ERZEUGEN EINER MUSIKZUSAMMENSETZUNG, DIE AKUSTISCH KORREKTE FORM AUFWEIST

Title (fr)
SYSTÈME ET PROCÉDÉS POUR GÉNÉRER AUTOMATIQUEMENT UNE COMPOSITION MUSICALE AYANT UNE FORME AUDIBLEMENT CORRECTE

Publication
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Application
EP 22165702 A 20220330

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- US 202117219610 A 20210331
- US 202217707923 A 20220329

Abstract (en)
A generative composition system reduces existing musical artefacts to constituent elements termed "Form Atoms". These Form Atoms may each be of varying length and have musical properties and associations that link together through Markov chains. To provide myriad new composition, a set of heuristics ensures that musical textures between concatenated musical sections follow a supplied and defined briefing narrative for the new composition whilst contiguous concatenated Form Atoms are also automatically selected to see that similarities in respective and identified attributes of musical textures for those musical sections are maintained to support maintenance of musical form. Independent aspects of the disclosure further ensure that, within the composition work, such as a media product or a real-time audio stream, chord spacing determination and control are practiced to maintain musical sense in the new composition. Further, a structuring of primitive heuristics operates to maintain pitch and permit key transformation. The system and its functionality provides signal analysis and music generation through allowing emotional connotations to be specified and reproduced from cross-referenced Form-Atoms.

IPC 8 full level
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Citation (search report)
- [XI] EP 1666967 A1 20060607 - MAGIX AG [DE]
- [XI] WO 2015154159 A1 20151015 - VESPRINI MARK [CA]
- [X] WO 2009107137 A1 20090903 - TECHNION RES & DEV FOUNDATION [IL], et al
- [A] US 5877445 A 19990302 - HUFFORD GEOFFREY CALVIN [US], et al
- [A] US 2015081065 A1 20150319 - BALL STEVEN J [US], et al
- [X] US 2005144016 A1 20050630 - HEWITT CHRISTOPHER [US], et al
- [A] US 2019341010 A1 20191107 - WIPPERFÜRTH ALEX [US]
- [A] US 2020188790 A1 20200618 - GALUTEN ALBHY [US]

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Designated extension state (EPC)
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