



## Computational Intelligence in Music, Sound, Art and Design

By Correia, João / Ciesielski, Vic

Condition: New. Publisher/Verlag: Springer, Berlin | 6th International Conference, EvoMUSART 2017, Amsterdam, The Netherlands, April 19-21, 2017, Proceedings | This book constitutes the refereed proceedings of the 6th International Conference on Evolutionary Computation in Combinatorial Optimization, EvoMUSART 2017, held in Amsterdam, The Netherlands, in April 2017, co-located with the Evo 2017 events EuroGP, EvoCOP and EvoApplications. The 24 revised full papers presented were carefully reviewed and selected from 29 submissions. The papers cover a wide range of topics and application areas, including: generative approaches to music, graphics, game content, and narrative; music information retrieval; computational aesthetics; the mechanics of interactive evolutionary computation; computer-aided design; and the art theory of evolutionary computation. | Algorithmic Songwriting with ALYSIA.- On Symmetry, Aesthetics and Quantifying Symmetrical Complexity.- Towards Polyphony Reconstruction Using Multidimensional Multiple Sequence Alignment.- Melody Retrieval and Classification Using Biologically-Inspired Techniques.- Evolved Aesthetic Analogies to Improve Artistic Experience.- Deep Artificial Composer: A Creative Neural Network Model for Automated Melody Generation.- A Kind of Bio-inspired Learning of mUSIC style.- Using Autonomous Agents to Improvise Music Compositions in Real-time.- Generating Polyphonic Music Using Tied Parallel Networks.- Mixed-initiative Creative Drawing with weblconoscope.- Clustering Agents for the Evolution of Autonomous Musical Fitness.- EvoFashion: Customising Fashion Through Evolution.- A...



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