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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 10783
Disciplina	006.3
Soggetti	Algorithms Artificial intelligence Computer graphics User interfaces (Computer systems) Human-computer interaction Artificial Intelligence Computer Graphics User Interfaces and Human Computer Interaction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Visual art inspired by the collective feeding behavior of sand-bubbler crabs -- Dynamical Music with Musical Boolean Networks -- Non-photorealistic Rendering with Cartesian Genetic Programming using Graphics Processing Units -- Construction of a Repertoire of Analog Form-finding Techniques as a Basis for Computational Morphological Exploration in Design and Architecture -- Medical art therapy of the future: building an interactive virtual underwater world in a children's hospital -- Expressive Piano Music Playing Using a Kalman Filter -- Generative Solid Modelling Employing Natural Language Understanding and 3D Data -- evoExplore: Multiscale Visualization of Evolutionary Histories in Virtual Reality -- Musical Organisms: A generative approach to growing musical scores -- Generating Drum Rhythms

Through Data-Driven Conceptual Blending of Features and Genetic Algorithms -- RoboJam: A Musical Mixture Density Network for Collaborative Touchscreen Interaction -- Towards a General Framework for Artistic Style Transfer -- Adaptive interface for mapping body movements to sounds -- On Collaborator Selection in Creative Agent Societies: An Evolutionary Art Case Study -- Towards Partially Automatic Search of Edge Bundling Parameters -- Co-Evolving Melodies and Harmonization in Evolutionary Music Composition -- Jewellery Design Optimisation using Genetic Algorithm: An Industrial Case Study of Halo Setting -- Learning as Performance: Autoencoding and Generating Dance Movements in Real Time -- Deep Interactive Evolution -- The Light Show: Flashing Fireflies Gathering and Flying over Digital Images -- Evotype: Towards the Evolution of Type Stencils.

Sommario/riassunto

This book constitutes the refereed proceedings of the 7th International Conference on Evolutionary Computation in Combinatorial Optimization, EvoMUSART 2018, held in Parma, Italy, in April 2018, co-located with the Evo*2017 events EuroGP, EvoCOP and EvoApplications. The 21 revised full papers presented were carefully reviewed and selected from 33 submissions. The papers cover a wide range of topics and application areas, including: generative approaches to music and visual art; medical art therapy; visualization in virtual reality; jewellery design; interactive evolutionary computation; and the art theory of evolutionary computation.
