1. Record Nr. UNINA9910299161303321

Titolo	Concept Invention [[electronic resource]] : Foundations, Implementation, Social Aspects and Applications / / edited by Roberto Confalonieri, Alison Pease, Marco Schorlemmer, Tarek R. Besold, Oliver Kutz, Ewen Maclean, Maximos Kaliakatsos-Papakostas
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-65602-3
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (304 pages)
Collana	Computational Synthesis and Creative Systems, , 2509-6575
Disciplina	121.4
Soggetti	Artificial intelligence User interfaces (Computer systems) Cognitive psychology Cognitive grammar Artificial Intelligence User Interfaces and Human Computer Interaction Cognitive Psychology Cognitive Linguistics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Social Aspects of Conceptual Blending -- Enabling Technologies for Concept Invention -- Complex Numbers, Blending Lists, and Experiments with Alumni -- Formal Conceptual Blending in Generation and Co-invention in Mathematics -- Chord Blending, and Jazz Mathematical Cross-blending -- Conceptual Blending in Melodic Harmonization -- Evaluating Creativity -- Discussion, Conclusion and Future Perspectives.
Sommario/riassunto	This book introduces a computationally feasible, cognitively inspired formal model of concept invention, drawing on Fauconnier and Turner's theory of conceptual blending, a fundamental cognitive operation. The chapters present the mathematical and computational foundations of concept invention, discuss cognitive and social aspects, and further describe concrete implementations and applications in the fields of

musical and mathematical creativity. Featuring contributions from leading researchers in formal systems, cognitive science, artificial intelligence, computational creativity, mathematical reasoning and cognitive musicology, the book will appeal to readers interested in how conceptual blending can be precisely characterized and implemented for the development of creative computational systems.