

Contents

Part I Theoretical Aspects of Creativity

On the Path Towards the Science of Creative Thinking	3
Giovanni Emanuele Corazza and Sergio Agnoli	
The Defragmentation of Creativity: Future Directions with an Emphasis on Educational Applications	21
Beth A. Hennessey and Malcolm W. Watson	
A Review of Integrated Approaches to the Study of Creativity: A Proposal for a Systems Framework for Creativity	33
Kristina Dorniak-Wall	
Creative Processes: Art, Design and Science	53
Marion Botella and Todd Lubart	
Distributing Creativity: Three Thought Experiments	67
Vlad Petre Glăveanu	

Part II Social Aspects of Creativity

Creativity and a Human Dichotomy: Individual or Part of a Team?	85
André P. Walton	
<i>Dangerous Liaisons: Bridging Micro and Macro Levels in Creativity Research</i>	103
Stoyan V. Sgourev	

Chanel's Creative Trajectory in the Field of Fashion: The Optimal Network Structuration Strategy	117
Gino Cattani, Mariachiara Colucci and Simone Ferriani	
A Comparison of Creativity in Project Groups in Science and Engineering Education in Denmark and China	133
Chunfang Zhou and Paola Valero	
 Part III Creativity in Design and Engineering	
Creativity in Engineering	155
David H. Cropley	
Creativity in Student Architects: Multivariate Approach	175
Christiane Kirsch, Todd Lubart and Claude Houssemand	
Improving Self-efficacy in Solving Inventive Problems with TRIZ	195
Niccolò Becattini and Gaetano Cascini	
Creating Bio-inspired Solution Ideas Using Biological Research Articles	215
Maria Katharina Helms, Helena Hashemi Farzaneh and Udo Lindemann	
Tele-Board MED: Supporting Creative Problem Solving in Behaviour Psychotherapy	233
Julia von Thienen and Christoph Meinel	
 Part IV Creativity in the Arts	
Neurocognitive Aspects of Musical Improvisation and Performance	261
Shama Rahman and Joydeep Bhattacharya	
Creativity and Art Education Gaps Between Theories and Practices	281
Jill Journeaux and Judith Mottram	
Music Listening, Composition, and Performance: An Experience of Creativity for Education	301
Chiara Sintoni	
Creating Music and Texts with Flow Machines	325
Fiammetta Ghedini, François Pachet and Pierre Roy	
Index	345

Multidisciplinary Contributions to the Science of
Creative Thinking

Corazza, G.E.; Agnoli, S. (Eds.)

2016, VIII, 348 p. 71 illus., Hardcover

ISBN: 978-981-287-617-1