Designing for the 21st Century
Interdisciplinary Question and Insights

Edited by Prof. Tom Inns
Contents

v  Acknowledgements
vii Preface

11 Introduction Prof. Tom Inns
27 Ideal States: Engaging Patients in Healthcare Pathways Through Design Methodologies Prof. Alastair S Macdonald
40 The Healing Environment Dr Jacques Mizan
54 Designing Healthy and Inclusive Public Outdoor Spaces for Young People Prof. Lamine Mahdjoubi
68 The View of the Child: Explorations of the Visual Culture of the Made Environment Dr Catherine Burke, Dr Claire Gallagher, Dr Jon Prosser and Judy Torrington
79 Orientating the Future: Design Strategies for Non-Place Prof. Richard Coyne and Dr James Stewart
89 Screens and the Social Landscape: Digital Design, Representation, Communication and Interaction Dr Carey Jewitt, Prof. Teal Triggs, and Prof. Gunther Kress
91 Technology and Social Action Dr Steve Walker and Dr Andy Dearden
114 Win-Win-Win-Win: Synergy Tools for Metadesigners Prof. John Wood
129 Embracing Complexity in Design Prof. Jeffrey Johnson, Katerina Alexiou, Dr Anne Creigh-Tyte, Dr Scott Chase, Prof. Alex Duffy, Dr Claudia Eckert, Damian Gascoigne, Prof. Bimal Kumar, Prof. Eve Mitleton-Kelly, Michael Petry, Dr Sheng Fen Qin, Prof. Alec Robertson, George Rzevski, Prof. Necdet Teymur, Avril Thompson, Prof. Robert Young, Mateo Willis and Theodore Zamenopoulos
150 Emergent Objects: Design and Performance Research Cluster Alice Bayliss and Joslin McKinney
166 Designing Physical Artefacts from Computational Simulations and Building Computational Simulations of Physical Systems Prof. Mark d’Inverno and Prof. Jane Prophet
177 Understanding and Supporting Group Creativity Within Design Dr Hilary Johnson, Prof. Peter Johnson, and Tim Coughlan
Contents continued

192 **Nature Inspired Creative Design – Bringing Together Ideas from Nature, Computer Science, Engineering, Art and Design** Thorsten Schnier, Russell Beale, Xin Yao, Bob Hendley and Will Byrne

205 **Spatial Imagination in Design** Dr Jane Rendell and Dr Peg Rawes

219 **Spatiality in Design** Dr John Stell, Prof. Lynne Cameron and Prof. Kenneth G. Hay

232 **Discovery in Design: People-centred Computational Issues** Prof. Ian Parmee, Prof. Lisa Hall, Prof. John Miles, Dr Jan Noyes, Christopher Simons and Dr David Smith,

246 **Design Imaging** Gordon M Mair and Kevin Miller

260 **Sensory Design and its Implications for Food Design and Presentation** Brent Richards

273 **The Emotional Wardrobe** Dr Sharon Baurley and Lisa Stead

299 **Interrogating Fashion: Practice Process and Presentation. New Paradigms for Fashion Design in the 21st Century** Prof. Sandy Black

315 **Design Performance** Dr Jillian MacBryde and Dr James Moultrie

331 **Index**