

Contents

1	Introduction to: Arts, Research, Innovation, and Society (ARIS) . . .	1
	Gerald Bast, Elias G. Carayannis, and David F.J. Campbell	
2	Fighting Creative Illiteracy	5
	Gerald Bast	
3	Art and Artistic Research in Quadruple and Quintuple Helix Innovation Systems	29
	Elias G. Carayannis and David F.J. Campbell	
4	The Culture of Information and the Information of Culture	53
	Elias G. Carayannis, Denisa Popescu, and Ali Pirzadeh	
5	Art, Research and Society: New Ecology: The Affective Power . . .	75
	Vivienne Wang	
6	Crossing Thresholds: Artistic Practice in Times of Research	101
	Richard Jochum	
7	A 3D “T-shaped” Design Education Framework	123
	Yongqi Lou and Jin Ma	
8	The Heterodox Pedagogy: Hackerspaces and Collaborative Education in Design	137
	Mitchell Joachim and Maria Aiolova	
9	The Noetic Turn: From Language-Based to Tool-Based Knowledge Trees	155
	Peter Weibel	
10	United Micro Kingdoms: A Design Fiction (2013), Critical Design FAQ (2007)	177
	Anthony Dunne and Fiona Raby	

11	What Is at Stake: qu'est-ce que l'enjeu? Paradoxes: Problematics: Perspectives in Artistic Research Today	197
	Giaco Schiesser	
12	Thinking Out of the Urban Design Toolbox	211
	Anton Falkeis	
13	Heteropoetic	223
	Alexander Damianisch	
14	Art and Design as Social Fabric	229
	Ruth Mateus-Berr	
15	Provocation as a Constructive Element in the Arts and in Education to Foster Societal Development and Innovation: Experience and Knowledge as Forms of Social Relations	269
	Barbara Putz-Plecko	
16	Arts, Research, Innovation, and Society (ARIS): Conclusion	287
	Elias G. Carayannis, Gerald Bast, and David F.J. Campbell	
Index		295