

Contents

1	Introduction: Framing Peripheral Interaction	1
	Saskia Bakker, Doris Hausen and Ted Selker	
Part I Theoretical Perspectives on Peripheral Interaction		
2	“Unseen, Yet Crescive”: The Unrecognized History of Peripheral Interaction	13
	John N.A. Brown	
3	Theories of Focal and Peripheral Attention	39
	James F. Juola	
Part II Peripheral Interaction Styles		
4	Peripheral Tangible Interaction	65
	Darren Edge and Alan F. Blackwell	
5	Microgestures—Enabling Gesture Input with Busy Hands	95
	Katrin Wolf	
6	Casual Interaction—Moving Between Peripheral and High Engagement Interactions	117
	Henning Pohl	
7	Fluent Transitions Between Focused and Peripheral Interaction in Proxemic Interactions	137
	Jo Vermeulen, Steven Houben and Nicolai Marquardt	
Part III Peripheral Interaction in Context		
8	Peripheral Displays to Support Human Cognition	167
	Tilman Dingler and Albrecht Schmidt	

9	Peripheral Interaction in Desktop Computing: Why It's Worth Stepping Beyond Traditional Mouse and Keyboard	183
	Kathrin Probst	
10	Peripheral Interaction with Light	207
	Dzmitry Aliakseyeu, Bernt Meerbeek, Jon Mason, Remco Magielse and Susanne Seitinger	
Part IV Visions on the Future of Peripheral Interaction		
11	Interactive Soundscapes of the Future Everyday Life.	239
	Berry Eggen	
12	Weaving Peripheral Interaction Within Habitable Architectures	253
	Brygg Ullmer, Alexandre Siqueira, Chris Branton and Miriam K. Konkel	

Peripheral Interaction

Challenges and Opportunities for HCI in the Periphery of
Attention

Bakker, S.; Hausen, D.; Selker, T. (Eds.)

2016, X, 272 p. 86 illus., 71 illus. in color., Hardcover

ISBN: 978-3-319-29521-3