

Contents

Introduction	1
Till Bovermann, Alberto de Campo, Hauke Egermann, Sarah Hardjowirogo and Stefan Weinzierl	
Part I Think Know Reflect	
Instrumentality. On the Construction of Instrumental Identity	9
Sarah-Indriyati Hardjowirogo	
From Musical Instruments as Ontological Entities to Instrumental Quality: A Linguistic Exploration of Musical Instrumentality in the Digital Era	25
Caroline Cance	
From Idiophone to Touchpad. The Technological Development to the Virtual Musical Instrument	45
Bernd Enders	
Musical Instruments as Assemblage	59
Paul Théberge	
Instrumentality as Distributed, Interpersonal, and Self-Agential: Aesthetic Implications of an Instrumental Assemblage and Its Fortuitous Voice	67
Deniz Peters	
Interactivity of Digital Musical Instruments: Implications of Classifying Musical Instruments on Basic Music Research	79
Jin Hyun Kim and Uwe Seifert	

Part II Design Make Create

Movement Meets Material—An Improvisational

Approach to Design	97
Johanna Schindler and Amelie Hinrichsen	

Instrumentality, Time and Perseverance	127
Giuseppe Torre and Kristina Andersen	

Machine Learning as Meta-Instrument: Human-Machine

Partnerships Shaping Expressive Instrumental Creation	137
Rebecca Fiebrink	

Interfacing Sound: Visual Representation of Sound in Musical Software Instruments

Thor Magnusson	153
----------------	-----

Digital Media and Electronic Music in the Classroom—The Loop Ensemble

Marten Seedorf and Christof Martin Schultz	167
--	-----

The Birl: Adventures in the Development of an Electronic Wind Instrument.

Jeff Snyder	181
-------------	-----

Case Study: The Endangered Guitar.	207
Hans Tammen	

Part III Compose Play Perform

Interplay Between Composition, Instrument Design and Performance.

M.A.J. Baalman	225
----------------	-----

Instrumentality in Sonic Wild{er}ness.	243
Antye Greie-Ripatti and Till Bovermann	

Instrumental Modality. On Wanting to Play Something	263
Bjørnar Habbestad and Jeff Carey	

Instruments for Spatial Sound Control in Real Time Music

Performances. A Review.	273
Andreas Pysiewicz and Stefan Weinzierl	

Lucille Meets GuitarBot: Instrumentality, Agency, and Technology in Musical Performance

Philip Auslander	297
------------------	-----

No Flute Is an Island, Entire of Itself. Transgressing Performers, Instruments and Instrumentality in Contemporary Music.

Bjørnar Habbestad	315
-------------------	-----

LiveCodeNet Ensemble: A Network for Improvising Music with Code	327
Hernani Villaseñor Ramírez	
Three Flavors of Post-Instrumentalities: The Musical Practices of, and a Many-Festo by Trio Brachiale	335
Dominik Hildebrand Marques Lopes, Hannes Hoelzl and Alberto de Campo	
Part IV Listen Perceive Feel	
Mapping, Causality and the Perception of Instrumentality: Theoretical and Empirical Approaches to the Audience's Experience of Digital Musical Instruments	363
Gina Emerson and Hauke Egermann	
Western Orchestral Instruments in the Foreground: What Features Make an Instrument More Attractive for a Solo Role in Concertos?	371
Song Hui Chon	
Instruments Unheard of: On the Role of Familiarity and Sound Source Categories in Timbre Perception	385
Kai Siedenbueg	
What If Your Instrument Is Invisible?	397
Dafna Naphtali	

Musical Instruments in the 21st Century

Identities, Configurations, Practices

Bovermann, T.; de Campo, A.; Egermann, H.;

Hardjowirogo, S.-I.; Weinzierl, S. (Eds.)

2017, VII, 412 p. 95 illus., 50 illus. in color., Hardcover

ISBN: 978-981-10-2950-9