

Contents

Towards Behavioral Objects: A Twofold Approach for a System of Notation to Design and Implement Behaviors in Non-anthropomorphic Robotic Artifacts	1
Samuel Bianchini, Florent Levillain, Armando Menicacci, Emanuele Quinz and Elisabetta Zibetti	
Laban Movement Analysis and Affective Movement Generation for Robots and Other Near-Living Creatures	25
Sarah Jane Burton, Ali-Akbar Samadani, Rob Gorbet and Dana Kulić	
Approaches to the Representation of Human Movement: Notation, Animation and Motion Capture	49
Tom Calvert	
The Problem of Recording Human Motion	69
Jacqueline Challet-Haas	
MovEngine—Developing a Movement Language for 3D Visualization and Composition of Dance	91
Henner Drewes	
Bayesian Approaches for Learning of Primitive-Based Compact Representations of Complex Human Activities	117
Dominik Endres, Enrico Chiovetto and Martin A. Giese	
Beyond Watching: Action Understanding by Humans and Implications for Motion Planning by Interacting Robots	139
Gowrishankar Ganesh and Tsuyoshi Ikegami	
Challenges for the Animation of Expressive Virtual Characters: The Standpoint of Sign Language and Theatrical Gestures	169
Sylvie Gibet, Pamela Carreno-Medrano and Pierre-Francois Marteau	

Task Modelling for Reconstruction and Analysis of Folk Dances	187
Katsushi Ikeuchi, Yoshihiro Sato, Shin'ichiro Nakaoka, Shunsuke Kudoh, Takahiro Okamoto and Hauchin Hu	
Dynamic Coordination Patterns in <i>Tango Argentino</i>: A Cross-Fertilization of Subjective Explication Methods and Motion Capture	209
Michael Kimmel and Emanuel Preuschl	
Abstractions for Design-by-Humans of Heterogeneous Behaviors.	237
Amy LaViers, Lin Bai, Masoud Bashiri, Gerald Heddy and Yu Sheng	
Annotating Everyday Grasps in Action	263
Jia Liu, Fangxiaoyu Feng, Yuzuko C. Nakamura and Nancy S. Pollard	
Laban Movement Analysis—Scaffolding Human Movement to Multiply Possibilities and Choices	283
Angela Loureiro de Souza	
Benesh Movement Notation for Humanoid Robots?	299
Eliane Mirzabekiantz	
The Origin of Dance: Evolutionary Significance on Ritualized Movements of Animals	319
Satoshi Oota	
A Worked-Out Experience in Programming Humanoid Robots via the Kinetography Laban	339
Paolo Salaris, Naoko Abe and Jean-Paul Laumond	
Using Dynamics to Recognize Human Motion	361
Gentiane Venture, Takumi Yabuki, Yuta Kinase, Alain Berthoz and Naoko Abe	
The Effect of Gravity on Perceived Affective Quality of Robot Movement	377
Suzanne Weller, Joost Broekens and Gabriel A.D. Lopes	
Applications for Recording and Generating Human Body Motion with Labanotation	391
Worawat Choensawat, Minako Nakamura and Kozaburo Hachimura	
Human Motion Tracking by Robots.	417
Katsu Yamane	



<http://www.springer.com/978-3-319-25737-2>

Dance Notations and Robot Motion

Laumond, J.-P.; Abe, N. (Eds.)

2016, X, 430 p., Hardcover

ISBN: 978-3-319-25737-2