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Nota di contenuto	Preliminary Material / Elisa R. Ferrè and Laurence R. Harris -- Preface / Elisa R. Ferrè and Laurence R. Harris -- Prediction in the Vestibular Control of Arm Movements / Jean Blouin , Jean-Pierre Bresciani , Etienne Guillaud and Martin Simoneau -- The Components of Vestibular Cognition — Motion Versus Spatial Perception / Barry M. Seemungal -- Gravity in the Brain as a Reference for Space and Time Perception / Francesco Lacquaniti , Gianfranco Bosco , Silvio Gravano , Iole Indovina , Barbara La Scaleia , Vincenzo Maffei and Myrka Zago -- Contribution of Bodily and Gravitational Orientation Cues to Face and Letter Recognition / Michael Barnett-Cowan , Jacqueline C. Snow and Jody C. Culham -- Internal Models, Vestibular Cognition, and Mental Imagery: Conceptual Considerations / Fred W. Mast and Andrew W. Ellis -- The Effects of Complete Vestibular Deafferentation on Spatial Memory and the Hippocampus in the Rat: The Dunedin Experience / Paul F. Smith , Cynthia L. Darlington and Yiwen Zheng -- Making Sense of the Body: the Role of Vestibular Signals / Christophe Lopez -- Vestibular–Somatosensory Interactions: A Mechanism in Search of a Function? / Elisa Raffaella Ferrè and Patrick Haggard -- Disrupting Vestibular Activity Disrupts Body Ownership / Adria E. N. Hoover and Laurence R. Harris -- Beyond the Non-Specific Attentional Effect of

Caloric Vestibular Stimulation: Evidence from Healthy Subjects and Patients / Gabriella Bottini and Martina Gandola -- Out-of-Body Experiences and Other Complex Dissociation Experiences in a Patient with Unilateral Peripheral Vestibular Damage and Deficient Multisensory Integration / Mariia Kaliuzhna , Dominique Vibert , Petr Grivaz and Olaf Blanke -- Vestibular Function and Depersonalization/Derealization Symptoms / Kathrine Jáuregui Renaud -- The Moving History of Vestibular Stimulation as a Therapeutic Intervention / Luzia Grabherr , Gianluca Macaudo and Bigna Lenggenhager -- Index / Elisa R. Ferrè and Laurence R. Harris.

Sommario/riassunto

In this volume specific cognitive sub-functions are identified and indications of how basic vestibular input contributes to each are described. The broad range of these functions is consistent with the broad spread of vestibular projections throughout the cortex. Combining vestibular signals about the head's orientation relative to gravity with information about head position relative to the body provides sufficient information to map body position onto the ground surface and underlie the sense of spatial position. But vestibular signals are also fundamental to sensorimotor control and even to high-level bodily perception such as the sense of body ownership and the anchoring of perspective to the body. Clinical observations confirm the essential role of vestibular signals in maintaining a coherent self-representation and suggest some novel rehabilitation strategies. The chapters presented in this volume are previously published in a Special Issue of Multisensory Research , Volume 28, Issue 5-6 (2015). Contributors are: M. Barnett-Cowan, O. Blanke, J. Blouin, G. Bosco, G. Bottini, J.-P. Bresciani, J.C. Culham, C.L. Darlington, A.W. Ellis, E.R. Ferrè, M. Gandola, L. Grabherr, S. Gravano, P. Grivaz, E. Guillaud, P. Haggard, L.R. Harris, A.E.N. Hoover, I. Indovina, K. Jáuregui Renaud, M. Kaliuzhna, F. Lacquaniti, B. Lenggenhager, C. Lopez, G. Macaudo, V. Maffei, F.W. Mast, B. La Scaleia, B.M. Seemungal, M. Simoneau, P.F. Smith, J.C. Snow, D. Vibert, M. Zago, and Y. Zheng.
