1.	Record Nr.	UNINA9910346743003321
	Autore	Poramate Manoonpong
	Titolo	Neural Computation in Embodied Closed-Loop Systems for the Generation of Complex Behavior: From Biology to Technology
	Pubbl/distr/stampa	Frontiers Media SA, 2018
	Descrizione fisica	1 online resource (278 p.)
	Collana	Frontiers Research Topics
	Soggetti	Neurosciences
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Sommario/riassunto	How can neural and morphological computations be effectively combined and realized in embodied closed-loop systems (e.g., robots) such that they can become more like living creatures in their level of performance? Understanding this will lead to new technologies and a variety of applications. To tackle this research question, here, we bring together experts from different fields (including Biology, Computational Neuroscience, Robotics, and Artificial Intelligence) to share their recent findings and ideas and to update our research community. This eBook collects 17 cutting edge research articles, covering neural and morphological computations as well as the transfer of results to real world applications, like prosthesis and orthosis control and neuromorphic hardware implementation.