1. Record Nr. UNINA9910484798603321

Titolo	Biomimetic and Biohybrid Systems : 6th International Conference, Living Machines 2017, Stanford, CA, USA, July 26–28, 2017, Proceedings / / edited by Michael Mangan, Mark Cutkosky, Anna Mura, Paul F.M.J. Verschure, Tony Prescott, Nathan Lepora
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-63537-9
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVIII, 645 p. 328 illus.)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 10384
Disciplina	660.6
Soggetti	Artificial intelligence Image processing - Digital techniques Computer vision Computer science Data mining Control engineering Robotics Automation Artificial Intelligence Computer Imaging, Vision, Pattern Recognition and Graphics Theory of Computation Data Mining and Knowledge Discovery Control, Robotics, Automation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Neuromorphic computing -- Comparative biomechanics and physiology -- Use of robots to explain adaptive intelligence of biological systems -- Bioinspired manufacturing, materials and robotics -- Soft robotics, humanoid robotics, and neurodevelopmental engineering -- Advances in soft robotics -- 3D-printed bio-machines -- Robots and society -- Biomimetic vision and control -- Utility and limites of deep learning for biorobotics -- Collective and emergents

	behaviours in animals and robots -- Bioinspired flight.
Sommario/riassunto	This book constitutes the proceedings of the 6th International Conference on Biomimetic and Biohybrid Systems, Living Machines 2017, held in Stanford, CA, USA, in July 2017. The 42 full and 19 short papers presented in this volume were carefully reviewed and selected from 63 submissions. The theme of the conference encompasses biomimetic methods for manufacture, repair and recycling inspired by natural processes such as reproduction, digestion, morphogenesis and metamorphosis.