

1. Record Nr.	UNINA9910208815103321
Autore	Cardon Alain
Titolo	New autonomous systems / / Alain Cardon, Mhamed Itmi
Pubbl/distr/stampa	Hoboken, New Jersey : , : ISTE Ltd/John Wiley and Sons Inc, , 2016
ISBN	1-119-28786-3 1-119-28801-0
Edizione	[1st edition]
Descrizione fisica	1 online resource (188 pages) : illustrations
Collana	Mechanical engineering and solid mechanics series Reliability of multiphysical systems set ; ; volume 1
Soggetti	Autonomous robots Autonomous robots - Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	The idea of autonomous systems that are able to make choices according to properties which allow them to experience, apprehend and assess their environment is becoming a reality. These systems are capable of auto-configuration and self-organization. This book presents a model for the creation of autonomous systems based on a complex substratum, made up of multiple electronic components that deploy a variety of specific features. This substratum consists of multi-agent systems which act continuously and autonomously to collect information from the environment which they then feed into the global system, allowing it to generate discerning and concrete representations of its surroundings. These systems are able to construct a so-called artificial corporeity which allows them to have a sense of self, to then behave autonomously, in a way reminiscent of living organisms.