

1. Record Nr.	UNINA9910346717303321
Autore	Bauer Christian
Titolo	Neues Konzept zur Bewegungsanalyse und -synthese für Humanoide Roboter basierend auf Vorbildern aus der Biologie
Pubbl/distr/stampa	KIT Scientific Publishing, 2013
ISBN	1-000-03946-3
Descrizione fisica	1 online resource (VIII, 217 p. p.)
Collana	Schriftenreihe des Instituts für Angewandte Informatik - Automatisierungstechnik, Karlsruher Institut für Technologie
Soggetti	Technology: general issues
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	New methods to generate and analyze motions of humanoid robots are presented and applied to a demonstrator. Reflexes of humans and neural central pattern generators (CPGs) were used as archetype. With leaky Integrate-and-Fire neurons a generic reflex template was designed and put to work for several specialized reflexes. The designed CPGs were used to analyze robotik motion as well as for generation of locomotion patterns on a biped demonstrator.