

1. Record Nr.	UNINA9910813885303321
Titolo	The dynamic brain : an exploration of neuronal variability and its functional significance // edited by Mingzhou Ding, Dennis L. Glanzman
Pubbl/distr/stampa	New York : , : Oxford University Press, , 2011
ISBN	0-19-939746-5
Descrizione fisica	1 online resource (393 p.)
Altri autori (Persone)	DingMingzhou GlanzmanDennis
Disciplina	612.8/2
Soggetti	Neural circuitry Neural networks (Neurobiology) Evoked potentials (Electrophysiology) Variability (Psychometrics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A mixed-filter algorithm for dynamically tracking learning from multiple behavioral and neurophysiological measures / Todd P. Coleman ... [et al.] -- Stochastic transitions between states of neural activity / Paul Miller and Donald B. Katz -- Neural coding : variability and information / Richard B. Stein and Dirk G. Everaert -- Interactions between intrinsic and stimulus-evoked activity in recurrent neural networks / Larry F. Abbott, Kanaka Rajan, and Haim Sompolinsky -- Inherent biases in spontaneous cortical dynamics / Chou P. Hung, Benjamin M. Ramsden, and Anna Wang Roe -- Phase resetting in the presence of noise and heterogeneity / Srisairam Achuthan ... [et al.] -- Understanding animal-to-animal variability in neuronal and network properties / Astrid A. Prinz, Tomasz G. Smolinski, and Amber E. Hudson -- Dynamical parameter and state estimation in neuron models / Henry D.I. Abarbanel ... [et al.] -- Capturing "trial-to-trial" variations in human brain activity : from laboratory to real world / Akaysha C. Tang, Matthew T. Sutherland, and Zhen Yang -- Linking neuronal variability to perceptual decision making via neuroimaging / Paul Sajda ... [et al.] -- Spatiotemporal

dynamics of synchronous activity across multiple areas of the visual cortex in the alert monkey / Charles M. Gray and Baldwin Goodell -- Behavioral and neural variability related to stochastic choices during a mixed-strategy game / Daeyeol Lee and Hyojung Seo -- Circuit mechanisms underlying behavioral variability during recovery of consciousness following severe brain injury / Nicholas D. Schiff -- Intermittent vorticity, power spectral scaling, and dynamical measures on resting brain magnetic field fluctuations : a pilot study / Arnold J. Mandell ... [et al.] -- Population variability and Bayesian inference / Terran Lane.

Sommario/riassunto

It is a well-known fact of neurophysiology that neuronal responses to identically presented stimuli are extremely variable. This book examines neuronal variability from theoretical, experimental and clinical perspectives.
