

目 录

决策与神经经济学

Animal Communication:Honesty and Deception	3
Decision-Making and Neuroeconomics	13
Decision-Making and Vision.....	19
Decision-Making in Financial Markets	29
Delayed Reinforcement:Economics	37
Delayed Reinforcement:Neuroscience	45
Game Theory and the Economics of Animal Communication	54
Games in Monkeys:Neurophysiology and Motor Decision-Making	60
Neuroeconomics:History.....	66
Neuroethological Perspective	72
Reasoning and Problem Solving:Models.....	79
Reward Decision-Making	88
Social Cognition.....	94
Social Interaction.....	98

执行功能与高级认知

Agnosia	109
Alexia.....	112
Amnesia:Declarative and Nondeclarative Memory	114
Animal Models of Amnesia.....	120
Attention and Eye Movements	126
Attention:Models.....	138
Attentional Functions in Learning and Memory	143
Attentional Mechanisms in Ventral Pathway.....	150
Attentional Networks	157
Attentional Networks in the Parietal Cortex	163
Brain-Computer Interface.....	169
Cognition:An Overview of Neuroimaging Techniques.....	178
Cognition:Basal Ganglia Role	183
Cognition:Cerebellum Role	192
Cognition:Neuropharmacology	199
Cognitive Control and Development	207

Cognitive Neuroscience:An Overview	212
Emotion and Vigilance	218
Emotional Influences on Memory and Attention	226
Executive Function and Higher-Order Cognition:Assessment in Animals	232
Executive Function and Higher-Order Cognition:Computational Models.....	238
Executive Function and Higher-Order Cognition:Definition and Neural Substrates.....	244
Executive Function and Higher-Order Cognition:EEG Studies	250
Executive Function and Higher-Order Cognition:Neuroimaging.....	255
Executive Functions:Eye Movements and Neuropsychiatric Disorders.....	261
Frontal Lobe Syndrome	267
Functional Amnesia.....	274
Hemispheric Specialization and Cognition	281
Human Methods:Psychophysics	287
Humans	296
Inhibitory Control over Action and Memory.....	302
Neglect Syndrome and the Spatial Attention Network	313
Neural Coding of Spatial Representations	318
Neuropsychological Testing	324
Parietal Cortex and Spatial Attention	333
Perception and Eye Movements	338
Prefrontal Cortex	347
Prefrontal Cortex:Structure and Anatomy	351
Prosopagnosia	361
Psychophysics of Attention	366
Referentiality and Concepts in Animal Cognition.....	372
Sleep Deprivation and Brain Function	381
Social Interaction Effects on Reward and Cognitive Abilities in Monkeys.....	386
Spatial Cognition	396
Spatial Cognition and Executive Function.....	403
Spatial Cognitive Maps.....	410
Spatial Orientation:Our Whole-Body Motion and Orientation Sense	416
Strategic Control of Memory.....	423
Task Switching.....	431
Vestibular Influences on Cognition	437
Vision:Mechanisms of Orientation,Direction and Depth.....	442
Visual Attention	451
Working Memory:Capacity Limitations	459

半球特化

Brain Asymmetry:Evolution	471
Dichotic Listening Studies of Brain Asymmetry	480
Hemispheric Specialization and Cognition	486
Split-Brain Patients	492

智能

Animal Intelligence:The Search for Animal Intelligence	501
Artificial Intelligence	509
Numerical Intelligence:Neural Substrates	513

振荡神经活性

Central Pattern Generators	523
Central Pattern Generators:Sensory Feedback	533
Gap Junctions and Neuronal Oscillations	542
Information Coding	549
Neural Oscillators and Dynamical Systems Models	557
Neuronal Pacemaking	566
Pulsatility in Neuroendocrine Systems	576
Sleep Oscillations	584
Sleep Oscillations and PGO Waves	592
Spiking Neuron Models	600
Swim Oscillator Networks	604
原书词条中英对照表	609