

<<第七届国际认知科学大会论文集>>

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内容概要

第七届国际认知科学大会在北京开幕。
来自全球二十多个国家和地区的数百名科学家在此次会议上共同探讨和交流认知科学前沿问题。
大会组织了认知科学与脑成像、认知科学与教育、认知科学与精神健康、认知科学与信息科学、认知科学与社会科学等五大方面的学术报告。
各国科学家们将讨论涉及认知科学的各种前沿科学问题，并特别突出认知科学高度跨学科的特点。

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书籍目录

Part Opening Ceremony Speeches1 Neural Basis for Selective Visual Attention2.Modelling Visual Attention in a Biologically Plausible System: Bridging the Gap between Physiology and Cognition3.Spike Timing-Dependent Plasticity of Neural Circuits-Hebb's Postulate Revisited4.Brain Mechanisms Underlying the Intuitive Thinking in Board-Game Experts5.A Conspiracy Theory of Learning to Read Chinese: Mapping the Educated Eyes to the Educated BrainPart Frontiers in Cognitive ScienceSection 1 Presidential Symposium on Vision1.The Global-first Topological Definition of Perceptual Objects, and Its Neural Correlation in Anterior Temporal Lobe2.Examining Cortical Circuitry Subserving Working Memory for Visual Motion3.Binocular Rivalry: Mechanisms and Applications4.Fast and Robust Processing of Visual Information From Field Potentials in the Human Temporal Visual Cortex5.Imaging Attention in the Brain: Optical Imaging Studies of Area V4 in Awake, Behaving Macaque Monkeys6.Seeing the Functional Role of AdaptationSection 2 AttentionSymposium 1 Intentions in the Mind/Brain1.The Intentionality Network2.From Social Intention to Action: Kinematic Evidence of Social Planning and Control3.Infering Intentions from Biological Motion4.Minds Made for Sharing ? An fMRI Investigation of the Neural Correlates of Joint AttentionSymposium 2 A General Theory of Visual Attention (TVA) ~ Cognitive Modeling and Neuropsychological Applications1.Modulation of Working Memory Related Neural Activity Bydistraction2.TVA Based Studies of Dyslexia3.TVA Based Studies on the Neurogenetics of Cognition4.Neuro-Cognitive Markers of Progressive Attentional Decline in Neurodegenerative Diseases: Parametric Assessment Based on Bundesen's Theory of Visual Attention (TVA) 5.The NTVA Framework: Linking Cognition and Neuroscience6.Attentional Capture and Control: Computation of Attentional Weights7.Top-Down Suppression from Prefrontal to Primary Somatosensory Cortex Facilitates Tactile8.Modeling Attentional Dwell-Time9.Towards a Neural Theory of Visual Attention in Perception and Sensori Motor Control (TVA-M) 10.Testing Theories of Pure Alexia Using TVA11.Examining Spatial Properties from Multiple Views12.Quantifying Visual Attention: TVA-Based Assessment of Distinct Components of Visual AttentionSymposium 3 Neural Correlates of Attention and Meditation1.Brain Activation during Development2.Children 3 - 8 Years of Age= Evidence from ERPs3.The Effects of Working Memory Training and Processing Speed Training on Neural Systems and Cognitive Functions4.Neural Correlates of Attention Training and Meditation Practice5.The Early Attentional Modulation of C1 Component-High Perceptual Load Preferred, but Attentional Load not CrucialSection 3 LanguagePlenary Speech1.Social Intelligence as a Domain-Specific Module and the Emergence of Language2.Developmental Dyslexia in Chinese and EnglishSymposium 1 Cognitive Neuroscience of Language1.Characterizing Ventral Occipito-Temporal Contributions to Reading2.Neural Substrates of Lexical Tone as Revealed at Different Stages of Cortical and Subcortical Processing3.Understanding Dynamic Interacting Neural Networks: Applications to Speech and Language4.Auditory Memory, Lead Lag Integration, and Speech Unmasking in Noisy, Reverberant Environments5.The Architecture of Speech Perception and Its Temporal Foundations6.Evidence Against a Dedicated System for Visual Word Forms in the Fusiform GyrusSymposium 2 Cognitive Processes and Representation of Asian Languages1. The Phonological Process with two Patterns of Chinese CharactersSymposium 3 Universality and Language-specificity of Sound Symbolism. the Interplay ofMultimodality, Embodiment, and Iconicity1.The Cognitive Semantics of Onomatopoeia: A Crosslinguistic Perspective on the Lexical Integration ofSound Symbolism2.Sound Symbolism on Touch3.Parallel Relationship between Sound Symbolism and Cross-Modal Correspondence4. Neural Priming of Action Concept: fMRI Adaptation for Action Words5.Mimetics and Verb Learning= a Discourse Analysis of Verbs Introduced with Mimetic VerbsSymposium 4 Enhancing Electronic Dictionaries with the Help of Lexicographers, ComputerScientists and Cognitive Psychologists1.A Proposal for Obtaining the Knowledge Base of Onomasiological Dictionaries "2.Word Sense Disambiguation Using Associative Concept Dictionary3.Utilizing the Distributional Hypothesis for Multilingual Thesaurus Construction4.EvaluatingStatistical Models for Basic Lexicon5.The Mental Lexicon, Blueprint of Tomorrow's Electronic DictionariesSection 4 Animal Cognition1.Accessing the Neural Bases of Cognitive Processing: Lessons from an Insect BrainSymposium 1 Animal

<<第七届国际认知科学大会论文集>>

Cognition——Intelligent Behavior Emerging from a Small Brain1.MAPK Cascades in Rat Anterior Cingulate Cortex Contribute to Induction and Expression of Pain-Related Emotion2.Emotional Learning Enhances Stimulus-Specific Top-Down Modulation of Sensorimotor Gating in Socially Reared Rats But Not Isolation-Reared Rats 3.Face Processing by Honeybees~ How Does Brightness Inversion Affect the Capacity of the Miniature Brain to Bind and Configure Spatial Elements for Reliable Recognition ?
4.Differential Roles of the Fan-Shaped Body and the Ellipsoid Body in Drosophila Visual Pattern Memory5.Deep Sequencing-Based Transcriptome Profiling Reveals the Differences between Foraging and Dancing behavior in the Honey Bee, Apis Mellifera6.Vision of Bees in Relation to Flower Patterns7.Selective Visual Attention in Drosophila during Tethered Flight8.Small Brains, Smart Minds: New Evidence of Higher Cognitive Function Emerging from the Small Brain9.Investigating Episodic Memory in Rats Symposium 2 Animal Cognition.. Nonhuman Primates Studies1.Visuospatial Properties of Caudal 7b in the Monkey2.Adaptive Visual Processing in the Primary Visual Cortex3.The Cortical Functional Organizations for Illusory and Kinetic Contour Processing across V1, V2 and V4 of Macaque Ventral Pathway Section 5 Early Development on Face Processing1.The Development of Specialization in Face Processing2.Emergence of the Own-Race Advantage in Taiwanese Infants.. Rethinking Perceptual Narrowing in a Developing Visual System3.Emergence and Development of the Other-Race Effect in Infancy and Early Childhood4.Infants' Knowledge of Their Own Species5.Body Inversion Effect: a Qualitative Change or a Quantitative Change Section 6 Philosophy of Mind. Computation and Cognition1.Can Computationalism Avoid the Triviality Problem ?
The Triviality Arguments and Implementation in Cognitive Science2.Why the Mind Is Not Computational ?
3.A Computational Explanation of Intentionality4.The Representation-Computation Metaphor and the Embodiment-Interaction Metaphor5.Information Processing, Computation, and Cognition6.How to Tell a Propositional-Attitude-Eliminating Story on Cognition without Eliminating Contents ?
-7.Fodor's Worry Section 7 Higher Levels of Cognition1.The Influence of Working Memory on Transfer of Incompatible Location-Relevant Mapping on a Subsequent Simon Task2.What is the Smallest Number of Premises in Inductive Decision-Making under Uncertainty In Daily Life ?
3.Order-Effect Verification Bias and the "Denial Antecedent Error"4.The Development of Cognitive Abilities in Chinese Children5.How Does Anxiety Affect Decision-Making6.Neural Correlates of "Aha" Experiences during Insight Problem Solving7.Inferior Frontal Gyrus Was Activated During Sentence-Level Semantic Unification in Both Explicit and Implicit Reading Tasks8.Rapid Processing of both Reward Probability and Reward Uncertainty in the Human Anterior Cingulate Cortex Part Impacts of Cognitive Science Section 1 Cognitive Science and Brain Mapping Workshop Neuro MR Insights Into the Brain1 Opportunities and Challenges of High Field MRI and MRS2.Ultrafast Functional Magnetic Resonance3.Sounds and Music.- fMRI of the Auditory System4,Gains and Losses of 7T MRI for Imaging Neuroscience Symposium 1 Brain Imaging and Signal Processing Methods1.A Kalman Smoother-Based Approach for Estimating Time-Varying Cortical Connectivity from High-Density EEG2.An Adaptive Algorithm of Second Order Blind Identification (SOBI) with Reference3.Taking into Account Latency, Amplitude and Morphology: Improved Estimation of Single-Trial EEG/MEG Responses by Wavelet Filtering and Multiple Linear Regression4.A Network Graphical Analysis Approach Demonstrates Different Connectivity Patterns Across Disease Subtypes in Parkinson's Disease (PD) 5.Likelihood Unimodality of a State-Space Model with Point Process Observations for Neural Spike Train Modeling 6.Multiblock PLS Model for Group Analysis Detects Ipsilateral Cerebellum and Globus Pallidus Hyperactivity in Parkinson Disease Symposium 2 ASL Perfusion MRI in Cognitive and Clinical Neuroscience Symposium 3 Multimodal Brain Mapping Methods Overview1. Electrocorticography (ECOG) in Functional Cognitive Studies.....Part Special Events Part Special Events

章节摘录

The study of representations of sequence knowledge is a hot cognitive psychological issue in the field of implicit learning. The present study investigated implicit and explicit learning representations' difference in a modified serial reaction time task, using N2, P3, lateralized readiness potential (LRP) as index. 36 subjects were grouped randomly to intentional or incidental group, respectively. Subjects had to learn a 12-letter-long repeating sequence that was irregularly disrupted by deviating sequence, including perceptual deviant and motor deviant. After the task, all participants were asked to complete the generation task. Then explicit and implicit learner were separated with the scores. N2, P3 and Response-locked LRP's onset latency and mean amplitude were measured among three totally different sequence in distinct learning strategy. The result suggested that in the perceptual selection stage, the way to represent sequence knowledge between implicit and explicit learner was different, the motor representations played a more important role than the perceptual way in both ways to sequence learning. While in the response preparation stage, three kinds of sequences' onset latency and mean amplitude of LRP-R had no difference even under the distinct learning strategies. The perceptual deviant sequence had the longest preparation time than the motor deviant one, and the standard sequence had the shortest preparation time. While perceptual deviant sequence had a more negative amplitude than the other two, which had no difference between each other.

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