<<认知、脑与意识>>

图书基本信息

书名：<<认知、脑与意识>>

13位ISBN编号：9787030330574

10位ISBN编号：7030330579

出版时间：2012-1

出版时间：科学出版社

作者：巴尔斯

页数：653

<<认知、脑与意识>>

内容概要

《认知、脑与意识：认知神经科学导论》（第二版）以独特的主题式写作手法阐述了认知神经科学的基本概念。
章节设置循序渐进，引导读者沿着一条清晰的主线了解该领域的最新进展。
基础教育领域的诸多专业要求学生对认知神经科学具备基本的理解。
然而，目前多数教科书都是为生物学专业的学生准备的，很少考虑心理学和其他相关专业的读者。
这本教材由认知神经科学领域的两位权威BernardJ.Baars和NicoleM.Gage担任主编，意在填补这一空缺，使读者无需神经科学或生物学背景也可以轻松理解。
作者以简单漂亮的绘图作品构建大脑，令人印象深刻。
每章结尾处附有思考题和绘图练习，帮助加深理解。

作者简介

作者：（美国）巴尔斯（Bernard J.Baars） （美国）Nicole M.Gage

<<认知、脑与意识>>

书籍目录

章节摘录

 插图： One example of this approach concerns the ability to discriminate speech-relevant sounds such as pho-nemes (see Chapter 7). Each human language has a set of sounds that map onto individual phonemes, which typically are conscripted within slashes: /p/, for example, to reflect the sounds (phones) that map onto the phoneme/p/. Recall the 'lack of invariance' prob-lem discussed in Chapter 7: the differing phonemes that are articulated before and after the articulation of /p/affect its acoustic features. Thus, there is not a sin-gle invariant physical property that uniquely defines /p/. Rather, the representation of the phoneme /p/must rely on some abstract (not just physical) features.This aspect of human speech has been exploited in speech perception studies where phonemes that differ in a single feature are prepared using speech synthe-sizing software to create a series of sounds that differ in graded steps between, for example, the phonemes /b/and/p/, which differ only in their initial voicing (vocal chord vibration). As English-speaking adults, if we were to listen to a graded phonetic transition from speech sounds 'ba'to 'pa', we would perceive the intermediates between /ba/and/pa/as being either one or the other. In other words, we show a categorical boundary between the two. Behavioral experiments have revealed that young babies also show enhanced (categorical) discrimination at phonetic boundaries used in speech such as /ba//pa/. That is, a graded phonetic transition from/ba/to/pa/is also perceived as a sudden categorical shift by infants. These observations initially caused excite-ment as evidence for a human speech perception-specific detection mechanism in humans. However,more recent research has shown that other species,such as chinchillas, show similar acoustical discrimi-nation abilities.

<<认知、脑与意识>>

编辑推荐

《神经科学研究与进展·认知、脑与意识：认知神经科学导论（全彩色版）（原著第2版）（导读版）》特点　全面、及时更新各章节相关的最新进展　针对读者反馈进行完善和修订　新增一章：认知的基因与分子生物学　前沿栏目介绍领域内知名研究者及其课题

版权说明