Supersizing the Mind
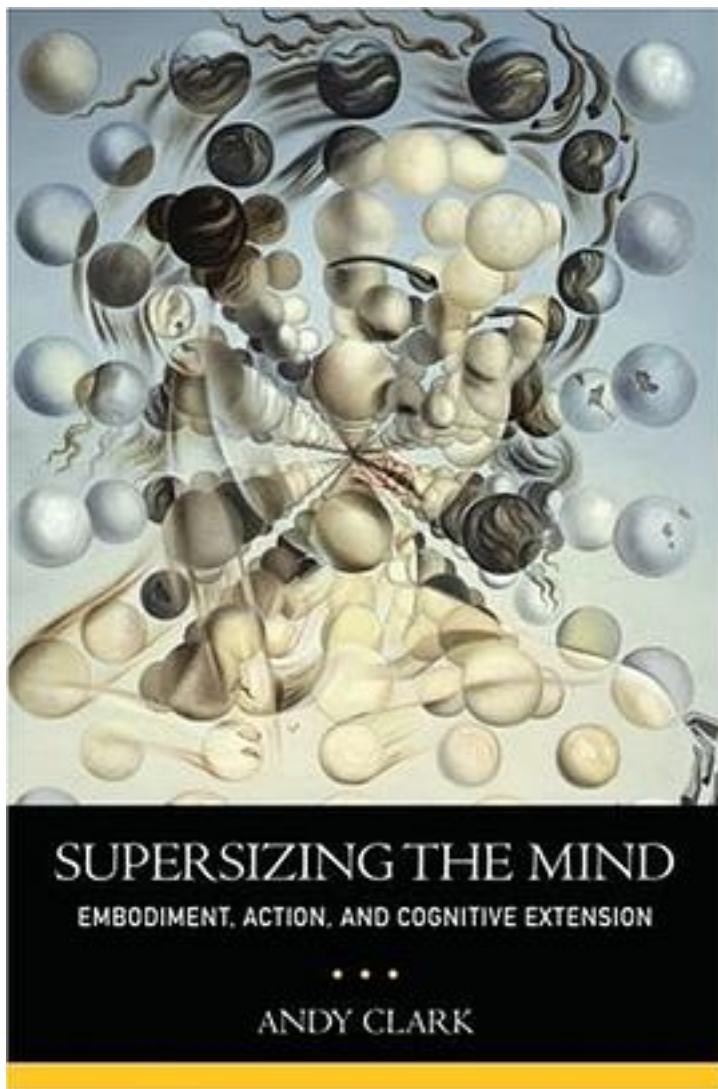

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Studies of mind, thought and reason have tended to marginalize the role of bodily form, real-world action, and environmental backdrop. In recent years, both in philosophy and cognitive science, this tendency has been identified and, increasingly, resisted. The result is a plethora of work on what has become known as embodied, situated, distributed, and even 'extended' cognition. Work in this new, loosely knit field depicts thought and reason as in some way inextricably tied to the details of our gross bodily form, our habits of action and intervention, and the enabling web of social, cultural, and technological scaffolding in which we live, move, learn, and think. But exactly what kind of link is at issue? And what difference might such a link or links make to our best philosophical, psychological, and computational models of thought and reason? These are among the large unsolved problems in this increasingly popular field. Drawing upon recent work in psychology, linguistics, neuroscience, artificial intelligence, robotics, human-computer systems, and beyond, Supersizing the Mind offers both a tour of the emerging landscape, and a sustained argument in favor of one approach to the key issues. That approach combines the use of representational, computational, and information-theoretic tools with an appreciation of the importance of context, timing, biomechanics, and dynamics. More controversially, it depicts some coalitions of biological and non-biological resources as the extended cognitive circuitry of individual minds. With a substantial foreword by David Chalmers, Supersizing the Mind is essential reading for all those interested in embodied cognition, the extended mind, and the likely shape of twenty-first century cognitive scientific explanation.

作者介绍:

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标签

认知科学

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Mind

这教材也太多米了！！！！！还让不让人活了

身体医疗史

评论

延展路径的开端。认知取决于身体经验，在与环境动态耦合中形成。论据详实，研究用书。
结构6，正正经经的专著，开辟了新取向；内容5，多引计算智能，不算趣味；思想7，认知与环境的互动；可学8，恰为研究重点。
从个体身体和外部环境提出想法，通过生态控制不在细节在秩序、信息处理对环境感知的依赖，身体和工具的扩展和感官策略应用，材料符号使用简化问题、重复嵌套使用空间环境结构等给出论证。
再对延展心灵可能存在的争论进行讨论，最后谈延展心灵的应用限制和框架再构，提出三种路径：传播过程中、信息自我构建中、扩展认知中。推荐最后的附录。

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书评

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