REVIEW

Intelligent Computing: The Latest Advances, Challenges, and Future

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Computing is a critical driving force in the development of human civilization. In recent years, we have witnessed the emergence of intelligent computing, a new computing paradigm that is reshaping traditional computing and promoting digital revolution in the era of big data, artificial intelligence, and internet of things with new computing theories, architectures, methods, systems, and applications. Intelligent computing has greatly broadened the scope of computing, extending it from traditional computing on data to increasingly diverse computing paradigms such as perceptual intelligence, cognitive intelligence, autonomous intelligence, and human–computer fusion intelligence. Intelligence and computing have undergone paths of different evolution and development for a long time but have become increasingly intertwined in recent years: Intelligent computing is not only intelligence-oriented but also intelligence-driven. Such cross-fertilization has prompted the emergence and rapid advancement of intelligent computing. Intelligent computing is still in its infancy, and an abundance of innovations in the theories, systems, and applications of intelligent computing is expected to occur soon. We present the first comprehensive survey of literature on intelligent computing, covering its theory fundamentals, the technological fusion of intelligence and computing, important applications, challenges, and future perspectives. We believe that this survey is highly timely and will provide a comprehensive reference and cast valuable insights into intelligent computing for academic and industrial researchers and practitioners.

Introduction

Human society is ushering into an intelligent society from an information society, in which computing has become a key element in formulating and promoting the development of society. In the new era of digital civilization with the internet of all things, traditional computing on data is far from being able to meet the growing endeavor for a higher level of intelligence by humans. The growing interest in intelligent computing, coupled with the development of computing science, the intelligent perception of the physical world, and the understanding of the cognitive mechanism of human consciousness, has collectively elevated the intelligence level of computing and accelerated the discovery and creation of knowledge.

Recent years have witnessed the rapid development of computing and information technology (IT), from which artificial intelligence (AI) has been established as the frontier of human exploration of machine intelligence because of the unprecedented popularity and success of deep learning. Based on this, a series of breakthrough research results have been produced,

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