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We wish to extend a warm welcome to the reader of this extended postproceedings publication of SAG 2004, the 1st International Workshop on Scientific Applications on Grid Computing. This workshop was held in September 2004, in conjunction with the 2004 IEEE/WIC/ACM International Joint Conference on Web Intelligence (WI 2004) and Intelligent Agent Technology (IAT 2004). The WI and IAT conferences have provided, for several years, a leading international forum to bring together researchers and practitioners from diverse fields, such as computer science, information technology, business, education, human factors, systems engineering, and robotics, to explore the fundamental roles as well as practical impacts of artificial intelligence (AI) (e.g., knowledge representation, planning, knowledge discovery, and data mining, intelligent agents and social network intelligence) and advanced information technology (IT) (e.g., wireless networks, ubiquitous devices, social networks, the Wisdom Web, and data/knowledge grids), and to examine the design principles and performance characteristics of various approaches in intelligent agent technology.

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