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The SP Theory of Intelligence: Distinctive Features and Advantages

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ABSTRACT This paper aims to highlight distinctive features of the SP theory of intelligence, realized in the SP computer model, and its apparent advantages compared with some AI-related alternatives. Perhaps most importantly, the theory simplifies and integrates observations and concepts in AI-related areas, and has potential to simplify and integrate of structures and processes in computing systems. Unlike most other AI-related theories, the SP theory is itself a theory of computing, which can be the basis for new architectures for computers. Fundamental in the theory is information compression via the matching and unification of patterns and, more specifically, via a concept of multiple alignment. The theory promotes transparency in the representation and processing of knowledge, and unsupervised learning of natural structures via information compression. It provides an interpretation of aspects of mathematics and an interpretation of phenomena in human perception and cognition. Abstract concepts in the theory may be realized in terms of neurons and their inter-connections (SP-neural). These features and advantages of the SP system are discussed in relation to AI-related alternatives: the concept of minimum length encoding and related concepts, how computational and energy efficiency in computing may be achieved, deep learning in neural networks, unified theories of cognition and related research, universal search, Bayesian networks and some other models for AI, IBM's Watson, solving problems associated with big data and in the development of intelligence in autonomous robots, pattern recognition and vision, the learning and processing of natural language, exact and inexact forms of reasoning, representation and processing of diverse forms of knowledge, and software engineering. In conclusion, the SP system can provide a firm foundation for the long-term development of AI and related areas, and at the same time, it may deliver useful results on relatively short timescales.

INDEX TERMS Artificial intelligence, information compression, multiple alignment, perception, cognition, neural networks, deep learning, unsupervised learning, reasoning, mathematics.

I. INTRODUCTION

The *SP theory of intelligence* is designed to simplify and integrate observations and concepts across artificial intelligence, mainstream computing, mathematics, and human perception and cognition, with information compression via *multiple alignment* as a unifying theme. It is realized in the SP computer model which may be regarded as an early version of the *SP machine*. The theory and some of its potential benefits and applications are described in outline in Appendix I, with pointers to where fuller information may be found.

The name "SP" stands for *simplicity* and *power*, two ideas which are equivalent to information compression (Appendix I-E) and thus central in the workings of the SP system, and also in Occam's Razor and the evaluation of scientific theories, as described in Appendix II.

The SP theory is one of many theories, systems, or schemes that are vying for the attention of researchers in AI and

related areas. Since it takes a fair amount of work to fully understand any one of these competing systems, researchers are naturally selective about where they will concentrate their efforts. Accordingly, the main aim of this paper is to present a case for the SP theory.

The beginnings of the argument are simply to show potential benefits and applications of the theory. Much of this has been done already in previous publications referenced in Appendix I.

But this paper goes further. Instead of merely describing what the theory is good for, the paper highlights what is *distinctive* about the SP theory compared with alternatives and, more importantly, it argues, immodestly, that in terms of the long-term development of AI-related research, the SP theory has *advantages* compared with alternatives, and, at the same time, it has potential in some areas on relatively short timescales. Some of the pros and cons of long- and

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