

16th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE (D4)
Innovative Concepts and Technologies (1)

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SENTIENCE

Abstract

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September 30, 2018

To successfully initiate and establish technologies for the future to come, it is important to define and understand sentience in a new light – within the domain of mathematical understanding. The current study incorporates a mathematical view of the perceivable-reality which has been understood till date in terms of the sciences. The claim of such a view provides to the scientific mind a holographic perception of reality which in precision could be mimicked into the machines. The research explores the cutting-edge, multidisciplinary field of swarm intelligence and discovers a novel method to mathematically instill a holographic understanding of reality into the machines to entail in them a method to become sentient. It draws its insights from the most innovative minds in the fields of A.I and Mathematics – Marvin Minsky, John Forbes Nash Jr. and Srinivasa Ramanujan. This paper conveys and illustrates a few ideas that form the basis of developing *sentience* and thereby discusses the semantics of A.I, A.G.I and swarms with respect to the achieved theoretical results. The concluding remarks identify the applicability of the research to space, its exploration and its exploitation.