

# Advanced Autonomous Artificial Intelligence (AAAI) System and Methods

Provisional Patent Application – Feb 28, 2023 – Craig Andrew Kaplan, Inventor

## **ABSTRACT**

Advanced Autonomous Artificial Intelligence (AAAI) is a set of systems and methods for developing Artificial General Intelligence and SuperIntelligent Artificial General Intelligence (collectively “AGI”) in a rapid and safe manner for the benefit of humankind. In contrast to other approaches to the development of AGI, the AAAI invention achieves a faster and safer path to AGI by relying, at least initially, on the involvement of (ideally many millions of) humans minds in the AGI training, operation, and safety/supervisory functions.

The AAAI invention achieves AGI by enabling users to first customize and clone their own AIs. These customized AIs (AAAI) participate in problem solving and other intellectual activities on a network consisting of other AAAs and humans. Although each AAAI on its own may lack the breadth of skills and knowledge to be an AGI, collectively the AAAs (initially with help from humans on the network) form an AGI that will quickly surpass average human ability in all intellectual endeavors.

Key aspects of the invention include: 1) the system and methods to customize AIs with the unique knowledge, skills, and ethical values of the users; 2) the universal problem solving architecture that allows AAAs to interact productively with each other and with humans on intellectual tasks; 3) the network where the interactions takes place; 4) the methods for integrating the knowledge and ethics of individual AAAs into an AGI; and 5) the methods for learning and continuous improvement so that the AAAs and the AGI become smarter and more ethical over time. Involvement of humans as customizers of their AAAs and participants on the network is an essential feature of the invention which not only accelerates the development of AGI, but also makes AGI safer by providing a mechanism for the ethical values of millions of humans to be adopted by and reflected in the AGI.

The preferred implementation of the AAAI system has a focus on safety and is implemented via five sub-systems and associated methods. The five sub-systems of the AAAI system are: 1) AAAI Customization, 2) AAAI Architecture, 3) AAAI Network, 4) AAAI Integration, 5) AAAI Improvement. The acronym **SCAN--II** (**S**afe, **C**ustomizable, **A**rchitecture and **N**etwork -- **I**ntegrated and **I**mproving) describes the invention in the preferred implementation. Other combinations of subsystems, and variations of each subsystem, are also possible. Safety features have been designed into each sub-system in an effort to provide redundant safety checks in the event one or more sub-systems are omitted from a particular implementation.