

A Crash Architecture: Case 2021

The Leading Professor Miguel Angel Sanchez-Rey [*The Grandmaster, The Master of Space-Time*]
The Physicalist Program

Abstract

Case 2021 is a crash architecture waiting to happen.

November 21st, 2018

The agent -- known as cognitive architecture for space agents (CASE) is an architectural control system that can manage a controlled environment. Where CASE can control the kitchen table lights at one end:

"Turn on the kitchen table lights, CASE."

By the command of his maker, CASE can instantaneously close the garage doors, "Please, CASE: close the garage doors."

With a central agent hub, CASE systems is said to be not only able to control and multi-task within a control environment, but also to be able to maintain and prolong its longevity. By controlling its power, electricity, water system, solar panels and geo-thermal generators, CASE will be able to sustain a giving environment almost to the point of indefinite sustainability. CASE is a computational artificial intelligence (AI) network with a planner as its top-level case architectural design that interfaces with the hardware through the control software.

A simple AI machine-architecture that is said to be able to achieve full control of its environment and logistics. But beyond CASE original hardware and programming, CASE is a crash architectural control system that lacks adaptive mechanisms that can anticipate when a hurricane will tear apart the maker's house. Or even the cognitive architecture to plan out and achieve survival from a full-scale hurricane besides, "What time can you bring the wood to cover the glass windows?"

"It's too late now, the hurricanes tail has already made it to the south beach."

So it's not that HAL 9000 went haywire (for science fiction has its mental drawbacks). Rather it's that CASE is bound to crash as it seeks to adapt when the resources and time is not available and/or even feasible for it. CASE becomes a mental case system that eventually succumbs to inert paralysis and a computational breakdown in its learning and command algorithm.

CASE systems are architectural machines that are of near perfect in their capacity to meet the needs of his and/or her maker. Yet to be an advance science implies that it is subject to entropy and conservation of energy. Nothing in the field of advance physics pops out of thin air like a rabbit that pops out of a magicians hat. So yes, the CASE architectural module is fanciful and eloquent.

But without the capacity for an adaptative anticipatory learning mechanism: CASE is good as DEAD at arrival.

References

Bonasso, Pete. *CASE: A HAL 9000 for 2021*. Science Robotics: November 2018.