



Qt

The Golden Hour

Artificial Intelligence to save lives.

- Over 20 years of experience building artificial intelligence systems.
- Multiple Fortune 500 Awards in innovation and artificial intelligence from Intel, Amazon, Ford, AT&T, Ericsson and Samsung among others.
- Numerous patents that were granted, and subsequently licensed and sold to Microsoft as well most major institutions.
- Experience using artificial intelligence solving hard problems in numerous industries from Social Media, Marketing, Health, Mobility and over 12 years serving the hedge fund industry.



About Us

We are an experienced, award winning team with years of experience using artificial intelligence to solve some of the world's hardest problems.



Situation

Ford Motor Company developed a platform to connect fleet vehicles so they could communicate with each other as well as a central hub.

The situation was to find a way to optimize emergency response, ambulance, fire and rescue vehicles.





Task

The specific challenge was to optimize emergency vehicles in traffic congested areas for the “golden hour.”

The golden hour is that first hour after a traumatic injury or health event. If a patient can get to a medical professional within that golden hour, the survival and outcome dramatically increases.

The problem is that in traffic congested areas, getting to a patient takes time through traffic, and then the patient needs to be picked up, and delivered to medical facilities within that critical golden hour.

In high traffic areas, this is an impossible task.





Action

We developed a networked monitoring system that was aware of the location of all emergency vehicles in the fleet.

Certain vehicles are specialized such as Cardiac Response vehicles that are specially configured for certain types of responses.

We then designed a form of artificial intelligence(borrowed from biology) based on biomimetic swarm dynamics to maintain awareness and state of the entire network of vehicles.

If an emergency call came in for a cardiac patient (for instance), the AI would use swarm dynamics to send the closest vehicle to the patient, while simultaneously routing specialized vehicles.



Result

The outcome was a solution to the “golden hour” problem that won two awards for innovation from Ford. The solution would bring layers of care to patients. Immediate care arrives to stabilize the patient and establish communication with physicians at a hospital and begin immediate care, while specialized vehicles are en route. The net result was a solution to achieve golden hour care for patients that cannot immediately get to a hospital.

Summary

Biomimetics combines AI and Biology...

- By using an advanced form of artificial intelligence based on swarm dynamics and swarm self-organizing algorithms... artificial intelligence was able to help save lives.
- This is an example of a “mission oriented” artificial intelligence that “knows” what its ultimate goal is, and proceeds to learn how to achieve it using innovative approaches to AI.



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The Next Step

Contact us to discuss how this level of artificial intelligence can solve your business challenges.

