

## NTU scientists develop technology to control cyborg insect swarm

### News

Researchers from NTU Singapore, Osaka University and Hiroshima University have developed an advanced swarm navigation algorithm for cyborg insects.



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The algorithm prevents the insects from becoming stuck while navigating challenging terrain.

The new algorithm could pave the way for applications in disaster relief and search-and-rescue missions. Nearby cyborgs could also help free those stuck or flipped over.

Cyborg insects are real insects that have electronic devices on their backs such as infrared cameras that allow their movements to be remotely controlled for certain tasks.

Professor Hirotaka Sato from NTU Singapore's School of Mechanical and Aerospace Engineering first demonstrated the single cyborg insect in 2008.

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