Artificially evolved robots that efficiently self-organize tasks

Eliseo Ferrante and colleagues evolved complex robot behaviors using artificial evolution and detailed robotics simulations.

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Summary:  Darwinian selection can be used to evolve robot controllers able to efficiently self-organize their tasks. Taking inspiration from the way in which ants organize their work and divide up tasks, researchers evolved complex robot behaviors using artificial evolution and detailed robotics simulations.

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Darwinian selection can be used to evolve robot controllers able to efficiently self-organize their tasks. Taking inspiration from the way in which ants organise their work and divide up tasks, Eliseo Ferrante and colleagues evolved complex robot behaviors using artificial evolution and detailed robotics simulations.

The novel method developed by the team of scientists from the University of Leuven, the Free University of Brussels and the Middle East Technical University is based on grammatical evolution and allows the evolution of behaviours that go beyond the complexity achieved before this study.

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