

Research topics for Utopia: Slime MOld 2026

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Research:

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“Self-organising principles of plasmodial slime moulds are being investigated for the modelling, simulation and visualisation of information flows, network formation and optimisation processes. By transferring biological systems to technical systems – in particular information and energy networks – adaptive, robust and sustainable network architectures are emerging at the interface between biology and technology. “The vision is a future in which information and energy networks, like living systems, grow in a self-organising manner, distribute resources intelligently and adapt resiliently to ecological and societal changes,” explains Kristina Wogatai.

Click here for her Master’s thesis [“SISMO \(Simulation of Slime MOlds\): A Slime Mold-Based Algorithm and its Application in Traffic Management”](#)