

超分散知能システム研究部門講演会

Enhancing Reliability in Molecular Communication

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■ 場所：講義棟K704

Molecular communication is an emerging paradigm to network biologically-enabled machines (or bio-nanomachines). Bio-nanomachines are nano-to-micro scale devices that exchange information by means of molecules and perform simple computation, sensing and/or actuation tasks. Molecular communication is expected to enable various biomedical and healthcare applications. This talk focuses on short-range (nanometers to micrometers) communication and summarizes our research efforts to enhance communication reliability. Our protocols utilize DNA molecules as information-carrying molecules and perform forward error correction (e.g., erasure coding) as well as feedback-based molecule retransmission.

学生を含め、どなたでもご参加頂けます。

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