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Reserch Theme in This Project :

Model and Simulation of Amoeba Type Robots

Main Research Results, Publications :

–Daisuke Inoue, Bulbul Mahemoti, Arif Md. Rashedul Kabir, Tamann Ishrat Farhana, Kiyotaka Tokuraku, Kazuki Sada, Akihiko Konagaya, Akira Kakugo: Depletion force induced collective motion of microtubules driven by kinesin, *Nanoscale*, (2015)

–Yuexing Han, Akito Hara, Akinori Kuzuya, Rousuke Watanabe, Yuichi Ohya, Akihiko Konagaya: Automatic Recognition of DNA Pliers in Atomic Force Microscopy Images, *New Generation Computing*, 33(3), 253–270 (2015)

–Yutaka Ueno, Shuntaro Ito, Akihiko Konagaya: Implementing a modeling software for animated protein–complex interactions using a physics simulation library. *J. Bioinformatics and Computational Biology*12(6)(2014)

–Greg Gutmann, Daisuke Inoue, Akira Kakugo, Akihiko Konagaya: Real–Time 3D Microtubule Gliding Simulation, *Life System Modeling and Simulation, Communications in Computer and Information Science*, vol. 461, pp.13–22 (2014)

–Masami Hagiya, Akihiko Konagaya, Satoshi Kobayashi, Satoshi Murata: Molecular Robots with Sensors and Intelligence, *Accounts of Chemical Research*, 47(6), 1681–1690 (2014)

–Murata S, Konagaya A, Kobayashi S, Saito H, Hagiya M: Molecular Robotics: A New Paradigm for Artifacts, *New Generation Computing*, Ohmsha, Ltd. and Springer, vol.31, no.1, pp.27–45 (2013)

Recent Activities (hobbies, etc.):