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Reserch Theme in This Project: Discrete models based on reactions and their applications to molecular learning mechanisms

Main Research Results, Publications:

(with F.Okubo) Finite Automata with Multiset Memory: A New Characterization of Chomsky Hierarchy, *Fundamenta Informaticae*, Vol.138, pp.31–44, 2015.

(with F.Okubo) The computational capability of chemical reaction automata, *Proc. of 20th International Conference on DNA Computing and Molecular Programming, Kyoto, Japan*, (Lecture Notes in Computer Science 8727, Springer) pp.53–66, 2014. Also, in *Natural Computing*, 2015, DOI: 10.1007/s11047-015-9504-7.

(with F.Okubo) Recent developments on reaction automata theory: A survey, in “Recent Advances in Natural Computing” (Selected results from the IWNC 7 Symposium), Series: Mathematics for Industry, vol.9 (Y.Suzuki and M.Hagiya, eds.),pp.1–22, Springer, 2014.

Recent Activities (hobbies, etc.):