

Name : Satoshi Kobayashi

Expertise : Computer Science

Affiliation :

Graduate School of Informatics and Engineering  
University of Electro-Communications

URL: <http://www.comp.cs.uec.ac.jp/satoshi/>



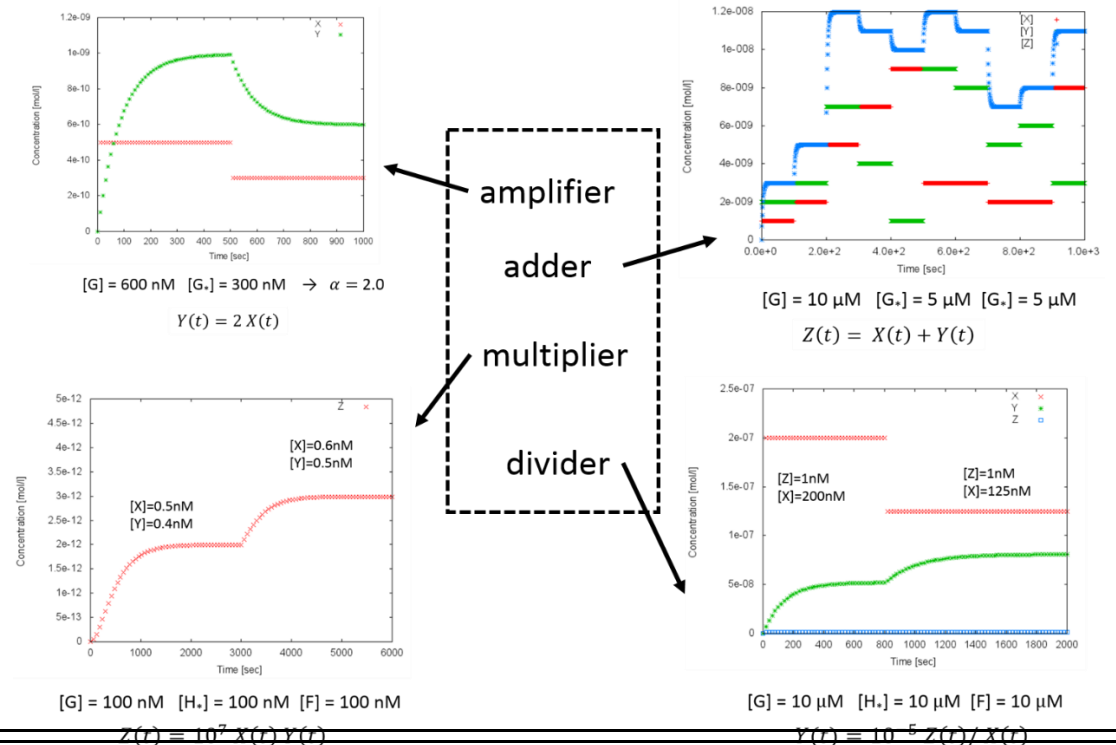
Reserch Theme in This Project: (1) Mathematical information modelling and numerical simulation of chemical reaction circuits used in molecular robots, (2) design method of reaction circuits which, when the inputs change, the output is re-computed to reflect the new inputs.

Main Research Results, Publications :

In order to build chemical reaction circuits to control molecular robots, it is important to establish design methodology for *time-responsive* reaction circuits which, when the inputs change, the output is re-computed to reflect the new inputs. We study on the design theory for time-responsive analog computing chemical reaction circuits.

Satoshi Kobayashi, Kazuya Yanagibashi, Ken Komiya, Kenzo Fujimoto and Masami Hagiya, Analog DNA Computing Devices Toward the Control of Molecular Robots, Proc. of Workshop on Self-organization in Swarm of Robotics, 2014, Invited Talk

### Time-Responsive Analog Circuit Devices



Recent Activities (hobbies, etc.):