

Research activities 2015 (Y. Yamazaki)

*published papers

- 1) Shousuke Ohmori, Yoshihiro Yamazaki, Cellular automata for spatiotemporal pattern formation from reaction-diffusion partial differential equations, J. Phys. Soc. Jpn. 85 ([2016](#)) [014003](#) (5 pages).
- 2) Takuma Narizuka, Ken Yamamoto, Yoshihiro Yamazaki, Degree distribution of position-dependent ball-passing networks in football games, J. Phys. Soc. Jpn. 84([2015](#)) [084003](#) (8 pages).

*research outcomes

- 1) Nonlinear dynamics of peeling adhesive tapes. (industry-university collaboration research)
- 2) Universality in statistical property of ball-passing events of football games by using tracking data.
- 3) Ultradiscretization of Fitzhugh-Nagumo type reaction diffusion equations having pulse-like solutions.
- 4) Confirmation of existence of film thickness threshold for growth rate of ascorbic acid crystals from its aqueous solution film.