Mini-symposium proposal

• Mini-symposium title.

Complicated Population Dynamics in Ecology and Epidemiology

• Mini-symposium organizers, names, affiliations and e-mails.

Yasuhiro Takeuchi : College of Science and Engineering, Aoyama Gakuin University, takeuchi@gem.aoyama.ac.jp
Toshiyuki Namba : Graduate School of Science, Department of Biological Science, Osaka Prefecture University, tnamba@b.s.osakafu-u.ac.jp

• Brief synopsis of mini-symposium including justification of how the topic relates to population dynamics.

This mini-symposium on new developments in dynamical systems with Complicated Population Dynamics in Ecology and Epidemiology will bring together a selected group of experts in these areas. We can find many interesting phenomena in the biological world which are essentially nonlinear and have rich dynamical properties. However, in general, it is very hard to understand the mechanism to produce the phenomena. Then we try to constitute a (mathematical) model which includes the essential mechanism to cause the phenomena. To construct, analyze, and improve nonlinear mathematical models, the exchanges of ideas in extended field are indispensable. This mini-symposium will provide a good chance to discuss several mathematical problems in the fields of ecology and epidemiology. Especially, we are interested in the mathematical and computational methods to solve the complicated population dynamics and unravel the mechanism underlying it.

• Confirmed speakers list.

Toshiyuki Namba (Osaka Prefecture University, Japan),
Shinji Nakaoka (Hokkaido University, Japan)
Yukihiro Nakata (Shimane University, Japan)
Sourav Kumar Sasmal (Aoyama Gakuin University, Japan)