

SERAMPORE GIRLS' COLLEGE

Name: Dr. MAYURAKSHI NAG

Designation: ASSISTANT PROFESSOR

Qualifications: M.Sc, Ph.D.

Email id: mayurakshimath@gmail.com

Date of joining in full time post: 01/10/2019

Teaching Experience:

- PTT, City College, Kolkata from 07/01/2010-31/07/2011
- Guest faculty, A.P.C College, New Barrackpore from 21/11/2017-30/09/2019

Teaching area in college: UG Mathematics general course

Area of Research interest: Complex dynamical system, network, diffusion equation, mathematical

Biology, perturbation theory

Research Project: NIL

Patent: NIL

Research Publication:

In International Journal

- (i) S. Poria, M.A. Khan, M. Nag: *Spatiotemporal synchronization of coupled Ricker maps over a complex network*; Phys. Scr., 88, 015004 (2013).
- (ii) M. Nag, S. Poria: *Properties of threshold coupled bistable maps*; Phys. Scr., 89, 095205 (2014).
- (iii) M. Nag, S. Poria: *Synchronized states and multistability in a random network of coupled discontinuous maps*; Chaos, 25, 083114 (2015).
- (iv) M. Nag, S. Poria: *Synchronization in a network of delay coupled maps with stochastically switching topologies*; Chaos, Solitons and Fractals, 91, 9-16 (2016).
- (v) M. Nag: *Bistable synchronization of coupled random network of cubic maps*; Indian Journal of Physics, 91(12), 1589 (2017).
- (vi) M.A. Khan, M. Nag, S. Poria: *Design of multistable systems via partial synchronization*; Pramana, 89:19 (2017).
- (vii) M.A. Khan, M. Nag, and S. Poria: *Multistability in coupled different-dimensional dynamical systems.*" Pramana 91: 89(2018).

- (viii) M.Nag: *Synchronization in a random network with distance-dependent delay*, Indian Journal of Physics, (2019).
- (ix) M.Nag, S.Poria: *Li-Yorke Chaos in Globally Coupled map lattice with delays*, International Journal of Bifurcation and Chaos, 29(13):1950183 (2019)
- (x) M.Nag, S.Poria: *Complex dynamics of coupled map lattices under random asynchronous updating*, Phys. Scr. 95:045218 (2020)
- (xi) M. Nag: *Synchronization in a random network with distance-dependent delay*, Indian J Phys 94(5):689–693 (2020)
- (xii) M. Nag, S. Poria: *Effects of time delay on the synchronized states of globally coupled network*, Chaos 30 (9), 093122 (2020)

Membership in learning society: Nil