Submission Classifications – *Chaos, Solitons & Fractals*

10: Dynamics

.1: Lagrangian chaos

.01: applications to mechanics of particles and systems

.2: perturbation theory

.02: approximation methods

.03: bifurcation theory

.04: celestial mechanics

.05: cellular automata

.06: collective behaviour

.07: computational methods in nonlinear dynamics

.08: control of chaos

.09: Hamiltonian systems

.11: Lie groups

.12: low-dimensional chaos

.13: maps and coupled lattice maps

.14: non-linear dynamics

.15: non-linear ordinary differential equations

.16: non-linear oscillations

.17: non-linear partial differential equations

.18: non-linear waves

.19: PDE in hydrodynamics

.21: signal processing

.22: solitons

.23: space-time chaos

.24: stability theory

.25: symmetry breaking

.26: symplectic mechanics

.27: synchronization

.28: vibrations

20: Non-equilibrium processes in physics, chemistry and geophysics

.1: hydrodynamics

.01: applications to astrophysics

.2: spin glasses

.02: applications to particle physics and cosmology

.03: applications to other physics disciplines

.04: coherent phenomena

.05: complex matter and networks

.06: critical phenomena

.07: decay of particles

.08: dynamical phase transition

.09: granular matter

.11: kinetic and transport theory

.12: Lévy flight

.13: microfluidics

.14: non-equilibrium phase transition

.15: non-equilibrium quantum field theory

.16: non-equilibrium statistical physics

.17: non-equilibrium/irreversible thermodynamics

.18: seismic fluctuations and geophysical complexity

.19: self-organized criticality

.21: symmetry breaking

.22: turbulence

30: Complex matter and networks

.01: brain dynamics

.02: complex matter

.03: complex networks

.04: complex systems

.05: internet dynamics, e-mail communication

.06: neural networks

.07: neurophysiological processes

.08: new materials synthesis

40: Mathematical models

.1: non-linear ordinary differential equations

.01: approximation methods

.2: synchronization

.02: cellular automata

.03: dynamical systems

.04: ergodic and mixing properties

.05: ergodic theory

.06: Kolmogorov-Sinai entropy

.07: Lie groups

.08: maps and coupled lattice maps

.09: mathematical physics

.11: non-linear waves

.12: non-linear partial differential equations

.13: perturbation theory

.14: Shanon entropy

.15: signal processing

.16: singularity theory

.17: solitons

.18: stability theory

.19: symmetry breaking

50: Computational biology

.01: biodynamics

.02: biological networks

.03: biological systems

.04: cognitive processes

.05: computational biology

.06: decision making

.07: medicine

.08: neural networks

.09: neuroscience, brain dynamics

60: Applications to quantum and mesoscopic phenomena

.01: applications to quantum information

.02: nanotechnology

.03: nonequilibrium quantum statistical mechanics

.04: open quantum systems

.05: quantum chaos

.06: quantum decoherence

.07: quantum dynamics

.08: quantum measurement processes

70: Fluctuations and random processes

.1: turbulence

.01: fluctuations in physics and biology

.02: fractional calculus

.03: kinetic and transport theory in physics and chemistry

.04: Lévy processes

.05: random signal processing

.06: Shanon entropy

.07: stable processes

.08: stochastic control

.09: synchronization

80: Self-organization

.01: complex matter

.02: fractals

.03: information theory

.04: pattern formation

.05: self-organized criticality

.06: Shanon entropy

90: Social phenomena

.01: applications to economics

.02: environmental science

.03: applications to social sciences

.04: ecology

.05: game theory

100: Engineering

.01: applications to engineering

.02: vibrations in engineering sciences