# CYBERNETICS and PHYSICS

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## New IPACS Journal

Cybernetics and Physics (CAP) is published under umbrella of the International Physics And Control Society (IPACS). The scope of the journal includes all areas related to Cybernetics and Physics.

**Prospective authors are invited to submit** high quality papers on applications of cybernetic methods to physical sciences and technologies, in particular, nonlinear dynamics and control; quantum information and control; control of oscillations, chaos and bifurcations; control in thermodynamics; modeling and identification of physical systems; complexity and self-organization; analysis and control of complex networks; network and systems synchronization; control of plasma, beams, lasers, mechanical and micromechanical systems and nanotechnologies as well as other related applications in science and technology.

The papers in cybernetics with physical flavor as well as the papers in physics with cybernetic flavor are welcome. Cybernetics is assumed to include, in addition to control, such areas as estimation, filtering, optimization, identification, information theory, pattern recognition, etc.

### SECTIONS

- Complexity and self-organization
- Control of oscillations
- Control of chaos and bifurcations
- Control in thermodynamics
- Control of flows and turbulence
- Applications of cybernetic methods in chemistry, biology and other natural sciences
- Nonlinear dynamics and control
- Information Physics
- Cyber-physical systems
- Quantum information and control
- Analysis and control of complex networks
- Synchronization of systems and networks
- Control of mechanical and micromechanical systems
- Dynamics and control of plasma, beams, lasers, nanostructures
- Modeling and identification of physical systems

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