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# Preface

## 100th Issue of the International Scientific Journal “Nonlinear Phenomena in Complex Systems”

Dear colleagues!

The present issue is the 100th anniversary issue of the International Scientific Interdisciplinary Journal “Nonlinear Phenomena in Complex Systems” (JNPCS), which began publishing in English twenty-five years ago in 1998. The journal JNPCS has played and continues to play a significant role in the development of interdisciplinary researches of the nonlinear phenomena in a variety of systems, from elementary particles to open quantum systems, neural networks, environmental, financial and other systems of high complexity. The focus of the journal is the behavioral features and patterns that arise as a result of the nonlinear interaction of many simpler components forming a complex system. The arsenal of modern mathematical methods for analyzing nonlinear phenomena in complex systems is developed and applied in the published articles of the journal. The diverse peculiarities of nonlinear processes, which in many respects are still not fully understood (it is enough to mention the problem of turbulence) continue to remain the focus of attention of the journal. Many practical problems, including global ones, depend on progress in solving them. Due to such public interest, the editors of the journal are optimistic about its future development. The journal JNPCS evolves from the vigorous activity of the Belarusian scientific school of nonlinear dynamics, synergetics and the theory of self-organization, and has gained great popularity among specialists. In a review in the journal *Nature* it was called a “Physical Review” for central and eastern European countries (*Nature*, v.407, September 27, 2000). The journal JNPCS is recognized by the European Physical Society as a leading scientific international journal with the status “Recognized by the European Physical Society”. This is the only scientific journal in the CIS that has received this status. Since 2009, the journal has been included with indexing in the Zentralblatt MATH database of the European Mathematical Society. Since 2011, the journal has been included in the SCOPUS scientific database, and since 2014 – in the scientific database Web of Knowledge, since 2016 – in the scientific database of the Russian Science Citation Index. Also, since 2016, the journal JNPCS has been indexed by the Mathematical Reviews of the American Mathematical Society (AMS) and included in the MathSciNet database. The journal provides support for research performed in scientific organizations of the Republic and promotes the prestige of Belarusian science. The journal JNPCS is a qualifying journal of the Higher Attestation Commission of the Republic of Belarus for publishing the results of dissertation research in physics and mathematics. By the time of the publication of the 100th anniversary issue, the journal had formed as a kind of International Forum on the nonlinear dynamics of complex systems in nature and society. The editorial board and international advisory board include world-class scientists. A circle of readers and subscribers of the journal has formed and continues to expand in the republic and abroad. The Interdisciplinary Journal “Nonlinear Phenomena in Complex Systems” is an opportunity for a wide range of readers to discover a reputable source of news in the field of nonlinear science: from brilliant guesses and hypotheses to analysis at the level available today. The journal provides accurate, accessible and modern information so important in science, technology and business. The editorial board of the journal thanks the authors of the articles who submitted their works to the anniversary issue, and expresses gratitude to all its authors and readers for their collaboration.

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