

Applied Mathematics of Interconnected Phenomena

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Welcome to Applied Mathematics of Interconnected Phenomena

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Abstract

This editorial welcomes readers, authors, reviewers and colleagues to the first volume of Applied Mathematics of Interconnected Phenomena, an international, peer-reviewed, open access journal devoted to networks, dynamical systems and complex phenomena. It explains why the journal was created, what kinds of mathematical contributions it seeks, how manuscripts are evaluated through a single-blind process, and which editorial and ethical commitments the editorial board makes to its authors and readers. It closes with an invitation to submit work that connects rigorous theory with computation and with applications in the physical, biological, engineering, economic and social sciences.

Keywords: editorial; open access; peer review; interconnected systems; research publishing.

1 Why a journal for interconnected phenomena

Many of the questions that matter most in contemporary science are questions about *interaction*. A single oscillator is well understood; thousands of oscillators coupled through a network can synchronize, fragment or fall into collective states that no individual unit exhibits. A single population obeys a simple equation; an ecosystem, an epidemic spreading over a contact network or a market of interdependent agents does not. In each case the mathematics of the parts does not by itself explain the behavior of the whole.

Applied Mathematics of Interconnected Phenomena (AMIP) was created to give this meeting point of ideas a home. Its subtitle, *Networks, Dynamical Systems and Complex Phenomena*, names the three threads that we want to see woven together: the structure of connections, the laws of evolution that act on that structure, and the emergent behavior that results. It is on that interface that mathematical analysis, numerical methods and modeling most often need one another, and where a common forum can be most useful.

On behalf of the editorial board, I welcome you to the first volume.

2 What we publish

AMIP publishes original research in applied mathematics with a focus on interconnected systems. The scope is deliberately broad, but it is organized around a few recurring themes: network theory and graph theory, including network dynamics; dynamical systems and nonlinear dynamics; stability analysis and bifurcation theory; chaos and complex behavior; synchronization and collective dynamics; ordinary and partial differential equations; stochastic processes and random dynamical systems; numerical analysis, optimization and control; and multiscale modeling, data-driven modeling and the study of emergent phenomena. Applications are welcome wherever the mathematics is central, in physics, biology, chemistry, engineering, economics and the social sciences.



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We accept original research articles, review articles and short communications. Let me say a word about each.

- **Research articles** should state a clear problem, place it in the existing literature, and make a contribution that is identified precisely: a theorem, an analytical result, a new method, or a numerical study that is reproducible. Mathematical formulations, assumptions and algorithms should be described in enough detail to be understood and, where applicable, repeated.
- **Review articles** are valuable when a field is moving quickly or when ideas from different communities have not yet been compared. A good review organizes the subject, states clearly what is established and what is not, and points to open problems.
- **Short communications** allow a focused result, a counterexample or a sharp numerical observation to reach readers without the length of a full paper. A short result that is correct and clearly stated is worth publishing.

We particularly encourage work that is honest about the status of its claims. Distinguishing what is proved from what is verified numerically, and both from what is only conjectured, is among the most useful habits in applied mathematics. A paper that says plainly what it does *not* establish will always be welcome here, and negative results, including counterexamples to natural conjectures, are part of the literature that readers need.

3 How manuscripts are evaluated

A journal is only as trustworthy as its review process. AMIP follows a **single-blind** procedure: the identities of the reviewers are concealed from the authors, while the reviewers know who the authors are. This protects the independence and confidentiality of the reports and lets reviewers place a manuscript in its context, so that it is judged on its scientific quality, originality, methodological rigor, significance and clarity.

Every submission is first screened by the Editor-in-Chief for scope and overall quality. Manuscripts that pass this screening are sent to at least two independent expert reviewers, chosen for their familiarity with the subject. The possible decisions are *Accept*, *Minor Revision*, *Major Revision* and *Reject*. The typical review time is between six and ten weeks; it can be longer when suitable reviewers are hard to find or when a manuscript is long and technical. When a revision is requested, authors are asked to submit a point-by-point response to the reviewers' comments, which is how editors and reviewers can see that concerns have been taken seriously.

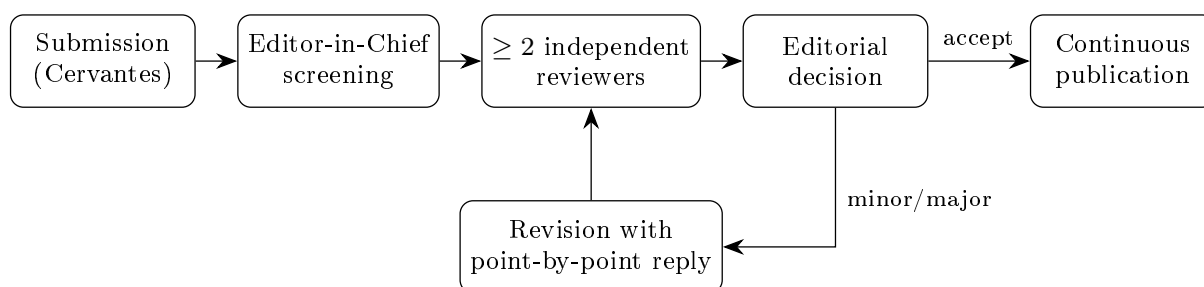


Fig. 1 Editorial workflow of AMIP. A manuscript that is rejected leaves the process at the decision stage; a revised manuscript returns to the reviewers together with the authors' point-by-point reply.

4 Integrity, openness and access

The editorial board follows the standards and Core Practices of the Committee on Publication Ethics (COPE) and maintains a zero-tolerance policy toward plagiarism, duplicate submission, data fabrication and other forms of misconduct. Submissions are screened with the Crossref Similarity Check service.

We have also taken a clear position on artificial intelligence. Simple assistive tools, such as grammar correction or translation, may be used freely. Generative tools capable of producing original content must *not* be used to create the scientific content of a manuscript, including its text, literature review, tables, figures or reference list; when such tools are used for permitted purposes such as language editing, a *Disclosure of the Use of AI* section is required. The same principle applies to the people who evaluate manuscripts: generative AI must not be used to produce peer-review reports or editorial decisions, in order to protect the integrity and confidentiality of the process. Authors remain fully responsible for the accuracy and originality of everything they submit.

AMIP is fully **open access**: articles are free to read immediately and without restriction. Publication is also free for authors, as **no article processing charge** is required, and copyright and publishing rights remain with the authors unless otherwise agreed in writing. We think that a mathematics journal should not make either readers or authors pay for the right to take part in the discussion. The contents of the journal are archived with Portico for long-term preservation, are registered in Crossref, and are currently covered by Baidu Scholar, Dimensions, Google Scholar, SCILIT and Semantic Scholar. Articles are published continuously, so that accepted work reaches readers without waiting for an issue to fill.

Table 1 The journal at a glance.

Subject	Networks, dynamical systems and complex phenomena
Language	English
Article types	Research articles, review articles, short communications
Peer review	Single-blind, at least two independent reviewers
Typical review time	6–10 weeks
Frequency	Continuous publication
Access and fees	Open access; no article processing charge
Submission	Cervantes editorial management system
Formats	PDF, DOC, DOCX, LaTeX (.tex/.zip); official Word and LaTeX templates

5 The editorial board

The strength of the journal rests on the people who guide it. Our editorial board brings together researchers from Europe, Asia, Africa and the Americas, working in nonlinear dynamics, synchronization and complex networks, differential equations and mathematical modeling, numerical and computational methods, and applications in biology, engineering and the social sciences. I thank each member for the time and judgment that they have already offered to the journal, and for agreeing to review, advise and, when necessary, to say no. A full list of the board is available on the journal's website.

6 An invitation

A new journal earns its place through the papers it publishes, and the first volume sets the tone for all that follows. I would like to ask authors to send us their best work, the careful theorem as well as the well-designed numerical study, the review that finally puts a field in order as well as the short note that settles a question. I

would like to ask reviewers for rigorous, courteous and constructive reports, because a good report improves a paper even when it recommends rejection. And I would like to ask readers to tell us, through the editorial office, what the journal should do better.

Manuscripts should follow the official AMIP templates, with the usual sections (abstract, keywords, introduction, methods, results, discussion, conclusion, references), and should be submitted through the Cervantes system. Questions about preparation or submission may be addressed to the editorial office at amip-journal@engineering-journals.org.

Thank you for joining us at the beginning of this project. I look forward to reading your work.

Dr. Zulqurnain Sabir

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