

## Special Issue

# Mechanism and Modeling of Graph Convolutional Networks

### Message from the Guest Editors

Graph convolutional networks (GCNs) have been developed rapidly, leading to the creation of diverse models in different fields, such as the biomedical, genetical analysis, and pattern recognition fields. GCNs are a type of deep learning model that operate on graph-structured data, as they can capture the local structure of data and identify patterns and regularities in the data based on tasks including node classification, graph classification, and link prediction. Moreover, GCNs not only can be used to learn node representations capturing the topology between the data, but can be utilized as features for downstream tasks, such as classification and clustering. To deal with the discussed issues and the existing research challenges, this Special Issue aims to encourage scholars to design more interesting works based on GCNs and to explore the mechanism and modeling of the framework of GCNs. Moreover, high-quality submissions involving theory analysis and the interpretability of GCNs are welcome.

### Guest Editors

Dr. Rongyao Hu

Dr. Tong Liu

Dr. Jiong Wu

### Deadline for manuscript submissions

15 April 2025



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 5.3



[mdpi.com/si/154313](https://mdpi.com/si/154313)

*Electronics*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 5.3



[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)



## About the Journal

### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

---

### Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Control and Systems Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).