

## Special Issue

# Applications of Neural Networks for Speech and Language Processing

### Message from the Guest Editors

Speech and language processing are key elements for natural interaction with devices and services. Current deep-learning systems (e.g., end-to-end approaches) reveal and use intrinsic knowledge hidden in a record of human communication in acoustic, visual, or textual form. Advances in the research have blurred the line between algorithms and methods. Machine translation and speech recognition can apply a similar-looking neural network to transcribe the input data into comprehensible output. This convergence of methods brings new possibilities, but also new challenges. This Special Issue provides an opportunity to discuss the current applications, trends, and directions in the processing of human interaction using neural networks. We welcome contributions reporting applications or enhancements of neural networks in the following areas (topics include, but are not limited to):

- Speech processing, recognition, and synthesis
- Natural language processing
- Multimodal processing

---

### Guest Editors

Dr. Daniel Hládek

Prof. Dr. Matúš Pleva

Prof. Dr. Piotr Szczuko

Dr. Andrej Zgank

---

### Deadline for manuscript submissions

closed (15 November 2022)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/90211](https://mdpi.com/si/90211)

*Electronics*  
Editorial Office  
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 6.1



[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 (Engineering, Electrical and Electronic) /  
CiteScore - Q1 (Electrical and Electronic 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 2.4  
days (median values for papers published in this journal in  
the first half of 2025).