Special Issue

Automatic Driving Control Method: Latest Advances and Prospects

Message from the Guest Editors

The brain–computer interface (BCI) is a technology that has been introduced to improve the quality of life of people with disabilities or difficulties in their daily lives. BCI applications such as driver assistant, sleep identification for drivers, and control of a bionic hand/ankle–foot orthosis are widely used for healthy people as well as paralyzed patients. BCI studies are not limited to EEG signals. BCI has the potential to be used in many applications based on biosignals. Research in the field mainly focuses on the development of mathematical calculations for brain-controlled vehicles, brain-controlled air vehicles, brain-controlled bionic hands, and brain-controlled foot–ankle braces using biosignals from electroencephalograms (EEGs), electrooculograms (EOGs), and electromyograms (EMGs). Mathematical implementations are mainly divided into five main steps: (1) preprocessing, (2) feature extraction, (3) feature selection, (4) classification, and (5) statistical analysis. For more information on the Special Issue, please visit LINK https://www.mdpi.com/journal/applsci/special_issues/0OV5T6728C

Guest Editors

Dr. Amin Hekmatmanesh
Mechanical Engineering, LUT School of Energy Systems, LUT University, Lappeenranta, Finland

Dr. Fan Gao
Department of Kinesiology and Health Promotion, College of Education, University of Kentucky, 214 Seaton Center, Lexington, KY 40506, USA

Deadline for manuscript submissions

closed (20 July 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/133293

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)