

## Special Issue

# Universal Design and Human–Computer Interaction in AI and Aged Society

### Message from the Guest Editor

Modern industrial society is aging, and all generations, including the elderly, must be considered comfortably and comprehensively. The application of AI technology should address their needs and enhance their convenience. Consumers' physical and cognitive characteristics are becoming increasingly diverse, and universal design is dedicated to addressing this diversity. Human–computer interaction examines the relationships between humans and technology, including computers, robots, environments, and systems. This Special Issue focuses on research related to universal design and human–computer interaction, exploring how digital and AI technologies can incorporate human characteristics into manufacturing and service processes. The goal is to enhance efficiency, flexibility, and customization across various consumer segments, including the elderly. This Special Issue welcomes the submission of original works, reviews, and short communications, with topics including the following:

- UI/UX design and universal design;
- Computing and AI (artificial intelligence) in human-centered design;
- Human–computer interaction and social robotics;

---

### Guest Editor

Prof. Dr. Byung Yong Jeong

Department of Industrial & Management Engineering, Hansung University, Seoul 02876, Republic of Korea

---

### Deadline for manuscript submissions

20 June 2026



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/229826](https://mdpi.com/si/229826)

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## 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, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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