

Call for Papers: Artificial Intelligence-Enhanced Special Education

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Statistical analyses by the United Nations International Children’s Emergency Fund have found that there are nearly 240 million children with disabilities worldwide. Many children with disabilities are excluded from mainstream education. With the constant attention and increased investment of the governments around the world, the special education program is in a phase of rapid development. With the introduction of artificial intelligence (AI) technology, the efficiency of special education has been enhanced, which greatly facilitates the enjoyment of equalized education for special populations. Although the situation has improved in recent decades, education for children with disabilities is still inferior to that for typically developing children. Moreover, their transition rate to higher levels of education is low. Lack of proper education in early life can have a profound effect on their poverty in adulthood.

Additionally, understanding the neural mechanisms of exceptional children will improve the efficiency of implementing educational strategies. However, research in this area is limited. Interventions such as physical and cognitive training for children with special needs are mandatory to compensate for their deficits. Most of them are highly heritable and show a high recurrence rate. Identifying pathophysiological and etiological mechanisms has long been a challenge.

The main objective of this special issue is to bring together the new and innovative ideas, experiences, and research results from researchers and practitioners on all aspects of special education and AI.

We invite authors to submit original research to this special issue in the following potential topics. The topics will include, but will not be limited to:

- Application of AI generated content (AIGC) in special education
- Multimedia technologies in educational intervention for special children
- Behavior analyses and intelligent evaluations of autism
- Intelligent language ability assessments for children with autism spectrum disorder (ASD)
- Educational evaluations for special children
- Personalized interventions for special children
- Technology-based interventions and assessments for ASD
- Neural mechanism of ASD
- Emotional cognitive analyses in special education
- Other related topics on special education

Important Dates

- Manuscript submission open date: October 1st, 2024
- Manuscript submission deadline: March 31st, 2025
- Publication date: September 30th, 2025

Guest Editors

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Submission Instructions

Frontiers of Digital Education is an international academic journal, aiming at reflecting the dynamic trends in digital education policies, academic frontiers, and research hotspots from various countries. The journal explores key issues and challenges in digital education and technological innovation, establishing a distinctive platform for the dissemination and communication of significant achievements in digital education. This journal is dedicated to the contribution of the advancement of digital education.

The submission platform Editorial Manager® at <https://www.editorialmanager.com/fode/> is now available for receiving submissions to this special issue. Please refer to the submission guidelines at <https://www.springer.com/journal/44366/submission-guidelines> to prepare your manuscript.

When submitting a manuscript via Editorial Manager®, under the Additional Information tab, “Are you submitting this manuscript to a Thematic Series?”, answer “Yes” and select the Thematic Series “Artificial Intelligence-Enhanced Special Education.”

All submissions deemed suitable to be sent for peer review will be reviewed by at least two independent reviewers. We sincerely invite you to submit your original work to this special issue and are looking forward to sharing your outstanding research outcomes with the peers around the world.

The submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. All papers are refereed through a peer review process. For more information, please visit <http://link.springer.com/journal/44366>.

Highlights of the Journal

- Peer review period: 1 month
- Publication: Online (first) publishing and printing, free access
- From acceptance to publication (currently): < 2 months
- Frequency of publication: Quarterly
- Charge: No page charges, no page limitation

Questions regarding the special issue

Please direct any questions regarding the special issue to Professor Jingying Chen (chenjy@mail.cnu.edu.cn) or the editorial office (fde@hep.com.cn).