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Assistant Professor  
Instructional Technology

## Employment

### Assistant Professor

Instructional Technology  
University of Twente  
1 Oct 2023 → present

### Coordinator of ICT and Education courses

The Interuniversity Centre for Educational Sciences (ICO)  
Netherlands  
1 Nov 2021 → present

## Research outputs

### Games in education: A systematic review of studies in international and Iranian contexts

Bakhtiari, R., Seraji, F., Farrokhnia, M., Habibzadeh, Z. & Noroozi, O., 7 Oct 2024, (E-pub ahead of print/First online) In: Educational technology research and development.

### Generative AI in Education: Pedagogical, Theoretical, and Methodological Perspectives

Noroozi, O., Soleimani, S., Farrokhnia, M. & Banihashem, S. K., Jun 2024, In: International Journal of Technology in Education. 7, 3, p. 373-385

### A SWOT analysis of ChatGPT: Implications for educational practice and research

Farrokhnia, M., Banihashem, S. K., Noroozi, O. & Wals, A., 3 May 2024, In: Innovations in Education and Teaching International. 61, 3, p. 460-474 15 p.

### Analysis of learners' emotions in e-learning environments based on cognitive sciences

Sahraie, F., Rezvanfar, A., Movahedmohammadi, S. H., Ebner, M. & Farrokhnia, M., 9 Apr 2024, In: International Journal of Interactive Mobile Technologies. 18, 7, p. 34-52 19 p.

### Examining the impact of using stop-motion technique on enhancing the quality of scientific reasoning skills of secondary school students

Ansarimoghadam, F., Hatami, J., Farrokhnia, M., Talae, E. & Ghalkhani, M., Jan 2024, In: Technology of instruction and learning. 6, 22, p. 10-38

### Using gamification to support learning in K-12 education: A systematic literature review

Dehghanzadeh, H., Farrokhnia, M., Dehghanzadeh, H., Taghipour, K. & Noroozi, O., Jan 2024, In: British journal of educational technology. 55, 1, p. 34-70 37 p.

### Improving Hybrid Brainstorming Outcomes with Scripting and Group Awareness Support

Farrokhnia, M., Noroozi, O., Biemans, H. & Baggen, Y., 2024, *Improving Hybrid Brainstorming Outcomes with Scripting and Group Awareness Support*. Clarke-Midura, J., Kollar, I., Gu, X. & D'Angelo, C. (eds.). Buffalo, USA: International Society of the Learning Sciences (ISLS), p. 115-122

### Assessing High School Students' Conceptual Understanding of Physics: A Cognitive Approach

Farrokhnia, M., Hatami, J. & Noroozi, O., 2023, *Proceedings of International Conference on Humanities, Education, and Social Sciences*. Admiraal, W., Cakir, E. & Ciddi, M. L. (eds.). Vol. 1. p. 108-119 8 p.

Sparking creativity in Entrepreneurship courses: The effect of using the SCAMPER technique in Brainstorming sessions  
Farrokhnia, M., Noroozi, O., Baggen, Y. & Biemans, H., 2023.

Sparking Creativity in Entrepreneurship Courses: Investigating the Effect of Hybrid Brainstorming Sessions on Business Opportunity Identification Outcomes  
Farrokhnia, M., Noroozi, O., Baggen, Y. & Biemans, H., Nov 2022.

The impacts of constructivist learning design and learning analytics on students' engagement and self-regulation  
Banihashem, S. K., Farrokhnia, M., Badali, M. & Noroozi, O., 4 Jul 2022, In: Innovations in Education and Teaching International. 59, 4, p. 442-452

Bridging the fields of entrepreneurship and education: The role of philosophical perspectives in fostering opportunity identification  
Farrokhnia, M., Baggen, Y., Biemans, H. & Noroozi, O., Jul 2022, In: The International Journal of Management Education. 20, 2, 10063220.

Fostering opportunity identification capability: The role of philosophical perspectives in the selection of teaching and assessment approaches  
Farrokhnia, M., Harm Biemans & Omid Noroozi, May 2022.

The effects of using Merrill's first principles of instruction on learning and satisfaction in MOOC  
Badali, M., Hatami, J., Farrokhnia, M. & Noroozi, O., 4 Mar 2022, In: Innovations in Education and Teaching International. p. 216-225 10 p.

The Relationship between Students' Satisfaction and Motivation and their Perceived Learning Outcome in an Online Peer Feedback Module  
Parvaneh Akhteh, M., Farrokhnia, M., Banihashem, S. K. & Noroozi, O., 2022, *Studies on Education, Science, and Technology*. Noroozi, O. & Sahin, I. (eds.). ISTES, p. 297-310

The mediating role of digital informal learning in the relationship between students' digital competence and their academic performance  
Mehrvaz, M., Heidari, E., Farrokhnia, M. & Noroozi, O., Jul 2021, In: Computers & education. 167, 12 p., 104184.

The role of social capital in Iranian agricultural students' acquisition of generic skills  
Gholami, H., Alambeigi, A., Farrokhnia, M., Noroozi, O. & Karbasioun, M., 27 Apr 2021, In: Higher Education, Skills and Work-based Learning. 11, 2, 31 p.

Student-Generated Stop-Motion Animation in Science Classes: a Systematic Literature Review  
Farrokhnia, M., Meulenbroeks, R. F. G. & Joolingen, W. R. V., 10 Dec 2020, In: Journal of science education and technology. 29, p. 797-812

Fostering Learners' Perceived Presence and High-Level Learning Outcomes in Online Learning Environments  
Taghizade, A., Hatami, J., Noroozi, O., Farrokhnia, M. & Hassanzadeh, A., 1 Jul 2020, In: Education Research International. 2020, 9 p., 6026231.

Higher Education Students' Perceived Readiness for Computer-Supported Collaborative Learning  
Khalifeh, G., Noroozi, O., Farrokhnia, M. & Talaei, E., 15 Apr 2020, In: Multimodal Technologies and Interaction. 4, 2, 13 p.

Computer-Supported Collaborative Concept-Mapping: The Effects of Different Instructional Designs on Conceptual Understanding and Knowledge Co-Construction  
Farrokhnia, M., Pijeira Díaz, H., Noroozi, O. & Hatami, J., 2020.

Computer-supported collaborative concept mapping: The effects of different instructional designs on conceptual understanding and knowledge co-construction  
Farrokhnia, M., Pijeira-Díaz, H. J., Noroozi, O. & Hatami, J., Dec 2019, In: Computers & education. 142, 103640.

Select-and-fill-in concept maps as an evaluation tool in science classrooms

Hatami, J., Farrokhnia, M. & Hassanzadeh, M., 2016, *Innovating with Concept Mapping - 7th International Conference on Concept Mapping, CMC 2016, Proceedings*. Reiska, P., Cañas, A. & Novak, J. (eds.). Springer, p. 169-180 12 p. (Communications in Computer and Information Science; vol. 635).

A study on the impact of real, virtual and comprehensive experimenting on students' conceptual understanding of DC electric circuits and their skills in undergraduate electricity laboratory

Farrokhnia, M. & Esmailpour, A., 2010, In: *Procedia: social and behavioral sciences*. 2, 2, p. 5474–5482 9 p.

## **Prizes**

### **Best Paper Presentation**

Farrokhnia, M. (Recipient), 2016

### **Best Paper Presentation**

Farrokhnia, M. (Recipient), 2022