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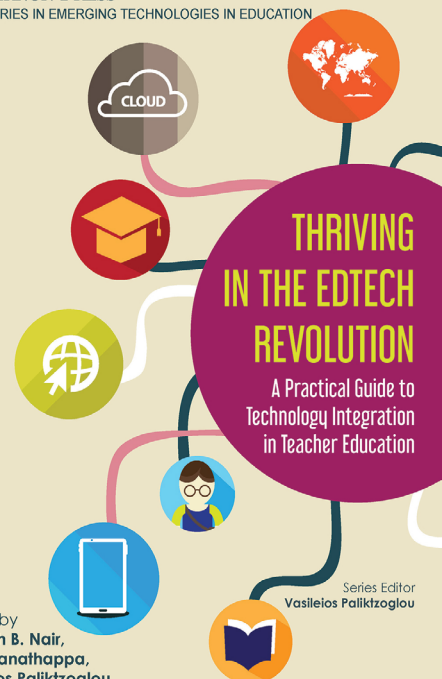
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SERIES IN EMERGING TECHNOLOGIES IN EDUCATION



Edited by
Harshith B. Nair,
G Viswanathappa,
Vasileios Paliktzoglou

Edited by H. B. Nair, V. Paliktzoglou, G. Viswanathappa

Thriving in the EdTech Revolution

A Practical Guide to Technology Integration in Teacher Education

SERIES IN EMERGING TECHNOLOGIES IN EDUCATION

Summary

In an era where digital transformation is reshaping education, this book is a vital guide for educators, researchers, and policymakers navigating technology integration into learning. It explores educational technology's theoretical foundations and practical applications, emphasizing innovative strategies to enhance teaching and learning. From artificial intelligence and machine learning to blended learning models and virtual reality, the book provides actionable insights into leveraging cutting-edge tools effectively while addressing critical issues like the digital divide, ethical technology use, and equitable access.

Positioned at the intersection of pedagogy and technology, the work draws on global case studies and frameworks such as TPACK to present adaptable solutions for diverse educational contexts. It is unique in its focus on foundational and emerging trends, and it supports educators in building digital competencies and fostering student-centered learning environments. Designed for classroom adoption, professional development, and research, this book is an indispensable resource for teacher educators, in-service teachers, policymakers, and educational researchers committed to transforming education for the digital age. Its blend of actionable strategies, ethical considerations, and future-focused discussions equips readers to embrace technology as a tool for innovation and inclusivity in teaching and learning.

About the editors

Harshith B Nair is a budding teacher educator at the Regional Institute of Education (NCERT), Mysuru. He specialises in mixed methods research and critical analysis. He serves on various editorial and reviewer boards of international organisations and journals. He has published various book chapters, papers and books in the area of education, technology and psychology. He wishes to pursue higher education in the area of education technology and is currently looking for doctoral opportunities. He is an avid reader, theatre artist and a polyglot and he believes that all these aids him to be a better educator. He continues to work in the area of edtech and teacher education.

Prof. (Dr.) G. Viswanathappa earned an M.Sc. in Statistics from Sri Venkateswara University, Tirupathi (1986), an M.Ed. from the Regional College of Education, Mysore (1988), and a PhD in Education from the University of Mysore (1992). After working with the Government of Andhra Pradesh, he joined NCERT on 16th October 1996 as faculty at the Regional Institute of Education (RIE), Mysore, later serving as Head of Extension Education and in-charge of the Educational Technology Cell. He was Principal of RIE Ajmer (June 2017–June 2019) and Director of SIEMAT, Amaravati (June 2019–March 2020). He rejoined RIE Mysore in March 2020 as Professor of Education, teaching educational research, pedagogy, assessment, and ICT to graduate and postgraduate students. He has led state, regional, and national studies on quality interventions under SSA and RMSA, developed an online Certificate Programme in Educational Data Processing (CEDP), published 13 books, numerous journal articles, and guided 15 PhD scholars. A specialist in educational data analysis, he conducted capacity-building programs for researchers and developed accreditation guidelines for schools. He represented NCERT at UNICEF's School Leadership Programme in Bangkok (2018) and is a member of school boards at three central universities. He also contributed to developing the syllabus for NCTE's 4-year Integrated Teacher Education Programme.

Dr. Vasileios Paliktzoglou is an academic and industry professional and holds a Ph.D. in Computer Science from the University of Eastern Finland. He is an active contributor to academia, serving as a guest and associate editor for prestigious journals like the Journal of Information Systems Education (JISE) and IAFOR Journal of Education. He has been a keynote speaker at several academic and industry events, sharing his insights on social computing, collaborative learning, and emerging technologies in higher education. Dr. Paliktzoglou also actively participates in international research projects, highlighting his commitment to advancing knowledge and innovation as the Book Series Editor for the "Emerging Technologies in Education" at Vernon Press and "AI and Education" at STAR Scholars Press. His expertise continues to shape the academic and research landscape at Bahrain Polytechnic.

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