

1. Record Nr.	UNINA9910992792703321
<b>Titolo</b>	Structural and Technological Transformation of Education in the Post-Pandemic Period : Problems and Prospects / / edited by Alexei L. Semenov, Vadim V. Grishkun, Svetlana N. Dvoryatkina, Vladimir A. Faerman
<b>Pubbl/distr/stampa</b>	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
<b>ISBN</b>	3-031-84039-9
<b>Edizione</b>	[1st ed. 2025.]
<b>Descrizione fisica</b>	1 online resource (X, 179 p. 33 illus., 24 illus. in color.)
<b>Collana</b>	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 1282
<b>Disciplina</b>	006.3
<b>Soggetti</b>	Computational intelligence Education Engineering - Data processing Computational Intelligence Data Engineering
<b>Lingua di pubblicazione</b>	Inglese
<b>Formato</b>	Materiale a stampa
<b>Livello bibliografico</b>	Monografia
<b>Nota di contenuto</b>	Section 1 -- Innovative ICT-Supported Teaching and the School's Digital Renewal Stages -- Complex Multi-Stage Tasks for Testing Schoolchildren in the Mathematics Course -- Hybrid Intelligent System of Teaching Schoolchildren as the Dominant Tool for Assessing the Quality of Mathematical Education -- Visualization in Blended Learning of Geometry in the High School -- Popular Science Film as a Resource for integrating Media education Technologies into the Mathematics Teaching System -- Geometric Abstractions in Real Space New Opportunities for a Distance Learning and Teaching Geometry -- Methodical Support of Hybrid Intellectual System with Cognitive Modeling of Engineering Research Activity on the Basis of Thinking Profiles -- Section 2 -- Features of Distance Learning Lessons on the Methodology of Teaching Mathematics for Bachelors in the Context of the COVID-19 Pandemic -- Digitalization of Mathematics Education at a Technical University Need and Reality amid the Pandemic -- Intelligent Ranking for the Results of Students' Knowledge Control Using Machine Learning Methods -- Teaching athematics and

omputer Science at the University under the Coronavirus Epidemiological Situation -- Application of Mathematics History in Integral Calculus Teaching under Conditions of Social Isolation -- Information Technologies in Blended Learning of Mathematics at University in the Context of the COVID-19 Pandemic -- Section 3 -- Training of Future Teachers for Blended Mathematics Education for School Students in a Digital Learning Environment -- Transdisciplinary Trend in the Transformation of the Content and Technologies of Teaching Mathematics and Computer Science to Future Teachers -- Teaching Economic Disciplines Using Digital Technologies in Distance Learning -- Digital Transformation of the Procedure for Assessing Competencies in a Pandemic.

#### Sommario/riassunto

Covering both pre-university and university levels, this book addresses the challenges and adaptations in mathematics education during the pandemic. The book "Structural and Technological Transformation of Education in the Post-Pandemic Period" critically examines the changes in STEM education, particularly in mathematics and computer science, prompted by the COVID-19 pandemic. It presents innovative methodologies that incorporate technology into teaching, highlighting the role of ICT in enhancing learning experiences. The focus is on hybrid intelligent systems and data-driven assessment methods that personalize learning and improve educational outcomes. Solutions discussed include the implementation of blended learning models, fostering critical thinking through complex tasks, and using historical contexts to deepen mathematical understanding. This edition serves as a valuable resource for educators, policymakers, and students aspiring to teach in STEM fields, providing insights into the evolving educational landscape.