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| 1. Record Nr. | UNISA996518465103316 |
| Titolo | Learning mathematics in the context of 3D printing : proceedings of the international symposium on 3D printing in mathematics education // edited by Frederik Dilling, Felicitas Pielsticker, and Ingo Witzke |
| Pubbl/distr/stampa | Wiesbaden, Germany : , : Springer Spektrum, , [2022] ©2022 |
| ISBN | 3-658-38867-6 |
| Edizione | [1st ed. 2022.] |
| Descrizione fisica | 1 online resource (322 pages) |
| Collana | MINTUS – Beiträge zur mathematisch-naturwissenschaftlichen Bildung, , 2661-8079 |
| Disciplina | 780 |
| Soggetti | Mathematics Ensenyament de la matemàtica Innovacions tecnològiques Impressió 3D Congressos Llibres electrònics |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | 3D Printing in Mathematics Education—A Brief Introduction -- 3D Transformations for Architectural Models as a Tool for Mathematical Learning -- DiASper – Increasing the skills on occupationally relevant digital technologies among young people in Southern Denmark and the federal state of Schleswig-Holstein (Northern Germany) -- Vignettes of Research on the Promise of Mathematical Making in Teacher Preparation -- Plane tessellation -- The Platonic solids -- Doing Mathematics with 3D Pens: Five Years of Research on 3D Printing Integration in Mathematics Classrooms -- Possibilities for STEAM Teachers using 3D modelling and 3D printing -- “I cannot simply insert any number there. That does not work” - A case study on the insertion aspect of variables -- Coding in the context of 3D printing. -- Modelling and 3D-printing architectural models - A way to develop STEAM projects for mathematics classrooms -- Interfaces in Learning Mathematics Using 3D Printing Technology -- Mathematical Drawing |

Sommario/riassunto

The volume presents a collection of articles on the use of 3D printing technology in mathematics education and in mathematics teacher training. It contains both basic research-oriented contributions as well as reflected descriptions of concrete developments for teaching. The authors of this compilation share a positive attitude towards the possibilities that the use of 3D printing technology (understood as an interplay of software and hardware) can unfold for mathematics education, but critically evaluate from a mathematics education research perspective when, where and how an application can enable an added value for the learning of a mathematical content. The Editors Dr. Frederik Dilling is a research associate at the department of mathematics at the University of Siegen. His research focuses on digital technologies and interdisciplinarity in mathematics education and mathematics teacher training. Dr. Felicitas Pielsticker works at the University of Siegen in the department of mathematics as a lecturer and researcher. Her research focuses on a holistic cognitive and neurofunctional description and analysis of mathematical knowledge development processes with digital technologies. Prof. Dr. Ingo Witzke is professor for mathematics education at the University of Siegen. His research group investigates mathematical knowledge development processes of learners interacting with (digital) tools and resources.

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| 2. Record Nr. | UNINA9910483974703321 |
| Titolo | Advanced Intelligent Systems for Sustainable Development (AI2SD' 2018) : Vol 1: Advanced Intelligent Systems Applied to Agriculture // edited by Mostafa Ezziyyani |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019 |
| ISBN | 3-030-11878-9 |
| Edizione | [1st ed. 2019.] |
| Descrizione fisica | 1 online resource (X, 130 p. 46 illus., 30 illus. in color.) |
| Collana | Advances in Intelligent Systems and Computing, , 2194-5365 ; ; 911 |
| Disciplina | 006.3 |
| Soggetti | Computational intelligence Artificial intelligence Computational Intelligence Artificial Intelligence |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Sommario/riassunto | This book gathers papers presented at the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2018), which was held in Tangiers, Morocco on 12–14 July 2018. Highlighting the latest research and findings in the field of agriculture, it provides new solutions, efficient tools and techniques that draw on modern technologies to increase agricultural productivity. In addition, it provides a critical overview of the status quo, shares new propositions, and outlines future perspectives in agriculture. |