

Mapeamento Sistemático

ID	Título do Estudo	Ano
1	Computational thinking: early childhood teachers' and prospective teachers' preconceptions and self-efficacy	2022
2	Informatics Concepts For Primary Education: Preparing Children For Computational Thinking	2014
3	Computational thinking in pre-university education	2016
4	Playfully Coding: Embedding Computer Science Outreach in Schools	2017
5	Computational thinking issues	2017
6	Identifying Teachers' Technological Pedagogical Content Knowledge for Computer Science in the Primary Years	2019
7	Computer Science Teacher Preparation in an International Context	2019
8	How to Transform Programming Processes in Scratch to Graphical Visualizations	2019
9	Progression Of Computational Thinking Skills In Swedish Compulsory Schools With Block-based Programming	2020
10	Computational thinking competences training for primary education teachers	2021
11	Observing Computational Thinking Skills of Kindergarten Children	2022
12	Adopting Coding in Early Childhood Education: Teachers' Perspectives	2023
13	Developing preservice teachers' understanding of computational thinking: A constructionist approach	2021
14	Make-believe play with the Internet of Toys: A case for multimodal playscapes	2021
15	Towards inclusiveness and sustainability of robot programming in early childhood: Child engagement, learning outcomes and teacher perception	2022
16	A K-6 computational thinking curricular framework: pedagogical implications for teaching practice	2021
17	Scratch and unity design in elementary education: A study in initial teacher training	2023
18	Improving early childhood pre-service teachers' computational thinking skills through the unplugged computational thinking integrated STEM approach	2023
19	Comparing Teachers' and Preservice Teachers' Opinions on Teaching Methods in Computer Science Education	2022
20	Observing Computational Thinking Skills of Kindergarten Children	2022
21	An Experience in Explicitly Training Pre-Service Early Childhood Teachers in Programming Concepts with ScratchJr	2022

22	Computational thinking in early childhood is underpinned by sequencing ability and self-regulation: a cross-sectional study	2023
23	Teachers' narrative of learning to program in a professional development effort and the relation to the rhetoric of computational thinking	2019
24	Development and testing of the Draw-a-Programmer test (DAPT) to explore elementary preservice teachers' conceptions of computational thinking	2021
25	Early childhood pre-service teachers' attitudes towards digital technologies and their relation to digital competence	2023
26	Development of pre-service early childhood teachers' technology integrations skills through a praxeological approach	2022
27	Systematic mapping of computational thinking in preschool children	2023
28	Scaling up a teacher development programme for sustainable computational thinking education: TPACK surveys, concept tests and primary school visits	2023
29	Comparing the effects of plugged-in and unplugged activities on computational thinking development in young children	2023
30	Can Preschoolers Learn Computational Thinking and Coding Skills with ScratchJr? A Systematic Literature Review	2022