

1. Record Nr.	UNISA996465467503316
Autore	Hazzan Orit
Titolo	Guide to teaching computer science : an activity-based approach // Orit Hazzan, Noa Ragonis, Tami Lapidot
Pubbl/distr/stampa	Cham : , : Springer, , [2020] ©2020
ISBN	3-030-39360-7
Edizione	[Third edition.]
Descrizione fisica	1 online resource (xx, 407 pages) : illustrations
Disciplina	374.26
Soggetti	Computer science - Study and teaching Active learning Computers and Education Teaching and Teacher Education Science Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction—What Is this Guide About? -- Active Learning and the Active-Learning-Based Teaching Model -- Overview of the Discipline of Computer Science -- Computational Thinking -- Computer Science Soft Concepts and Soft Skills -- Data Science and Computer Science Education -- Research in Computer Science Education -- Problem-Solving Strategies -- Learners' Alternative Conceptions -- Teaching Methods in Computer Science Education -- Lab-Based Teaching -- Types of Questions in Computer Science Education -- Assessment -- Teaching Planning -- Design of Methods of Teaching Computer Science Courses -- Getting Experience in Computer Science Education -- High School Computer Science Teacher Preparation Programs -- Epilogue.
Sommario/riassunto	This concise yet thorough textbook presents an active-learning model for the teaching of computer science. Offering both a conceptual framework and detailed implementation guidelines, the work is designed to support a Methods of Teaching Computer Science (MTCS) course, but may be applied to the teaching of any area of computer science at any level, from elementary school to university. This text is not limited to any specific curriculum or programming language, but

instead suggests various options for lesson and syllabus organization. Fully updated and revised, the third edition features more than 40 new activities, bringing the total to more than 150, together with new chapters on computational thinking, data science, and soft concepts and soft skills. This edition also introduces new conceptual frameworks for teaching such as the MERge model, and new formats for the professional development of computer science educators. Topics and features: Includes an extensive set of activities, to further support the pedagogical principles outlined in each chapter Discusses educational approaches to computational thinking, how to address soft concepts and skills in a MTCS course, and the pedagogy of data science (NEW) Focuses on teaching methods, lab-based teaching, and research in computer science education, as well as on problem-solving strategies Examines how to recognize and address learners' misconceptions, and the different types of questions teachers can use to vary their teaching methods Provides coverage of assessment, teaching planning, and designing a MTCS course Reviews high school teacher preparation programs, and how prospective teachers can gain experience in teaching computer science This easy-to-follow textbook and teaching guide will prove invaluable to computer science educators within all frameworks, including university instructors and high school teachers, as well as to instructors of computer science teacher preparation programs. Dr. Orit Hazzan is Professor at the Department of Education in Science and Technology at Technion – Israel Institute of Technology. Dr. Noa Ragonis is Head of the M.Teach. program for Secondary Education and the M.Ed. program in Integrative STEM Education at Beit Berl College, Israel. She is a computer science senior lecturer, and an adjunct senior lecturer at the Department of Education in Science and Technology, Technion. Dr. Tami Lapidot is Executive Manager of Machshava – the Israeli National Center for Computer Science Teachers.

2. Record Nr.	UNINA9910716010203321
Autore	Inman Ernest J.
Titolo	Comparison of the 2-, 25-, and 100-year recurrence interval floods computed from observed data with the 1995 urban flood-frequency estimating equations for Georgia // by Ernest J. Inman ; prepared in cooperation with the Georgia Department of Transportation and Federal Highway Administration
Pubbl/distr/stampa	Atlanta, Georgia : , : U.S. Geological Survey, , 1997
Descrizione fisica	1 online resource (iii, 14 pages) : illustrations, map
Collana	Water-resources investigations report ; ; 97-4118
Soggetti	Floods - Georgia Stream measurements - Georgia Floods Stream measurements Georgia
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (page 14).