1.	Record Nr.	UNISA996464385703316
	Titolo	SOFSEM 2021: Theory and Practice of Computer Science [[electronic resource]] : 47th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2021, Bolzano-Bozen, Italy, January 25–29, 2021, Proceedings / / edited by Tomáš Bureš, Riccardo Dondi, Johann Gamper, Giovanna Guerrini, Tomasz Jurdziski, Claus Pahl, Florian Sikora, Prudence W.H. Wong
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
	ISBN	3-030-67731-1
	Edizione	[1st ed. 2021.]
	Descrizione fisica	1 online resource (XVI, 624 p. 116 illus., 65 illus. in color.)
	Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 12607
	Disciplina	004
	Soggetti	Computer science Data structures (Computer science) Information theory Image processing—Digital techniques Computer vision Software engineering Computer engineering Computer networks Theory of Computation Data Structures and Information Theory Computer Imaging, Vision, Pattern Recognition and Graphics Software Engineering Computer Engineering and Networks
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes index.
	Nota di contenuto	Invited Papers -- Algorithms that Access the Input via Queries -- Towards Knowledge Exchange: State-of-the-Art and Open Problems -- Invited Talk: Resilient Distributed Algorithms -- Towards Minimally Conscious Finite-State Controlled Cyber-Physical Systems – A

Manifesto -- Reconstructing Phylogenetic Networks from Sequences: Where we Stand and What to do Next -- Foundations of Computer Science – Full Papers -- Amnesiac Flooding: Synchronous Stateless Information Dissemination -- Asymptotic Approximation by Regular Languages -- Balanced Independent and Dominating Sets on Colored Interval Graphs -- Bike Assisted Evacuation on a Line -- Blocksequences of k-local Words -- Complexity of limit-cycle problems in Boolean networks -- Concatenation Operations and Restricted Variants of Two-Dimensional Automata -- Distance Hedonic Games -- Distributed Independent Set in Interval and Segment Intersection Graphs -- Hierarchical b-Matching -- Improved algorithms for online load balancing -- Iterated Uniform Finite-State Transducers on Unary Languages -- New bounds on the half-duplex communication complexity -- Novel Results on the Number of Runs of the Burrows-Wheeler-Transform -- On the Redundancy of D-ary Fano Codes -- On the Terminal Connection Problem -- Parameterized Complexity of d-Hitting Set with Quotas -- Parameterizing Role Coloring on Forests -- The Balanced Satisfactory Partition Problem -- The Multiple Traveling Salesman Problem on Spiders -- Tightness of Sensitivity and Proximity Bounds for Integer Linear Programs -- Using the Metro-Map Metaphor for Drawing Hypergraphs -- Weighted Microscopic Image Reconstruction -- Foundations of Computer Science – Short Papers -- A Normal Sequence Compressed by PPM* but not by Lempel-Ziv 78 -- Clusters of repetition roots: single chains -- Drawing Two Posets -- Fair Division is Hard even for Amicable Agents -- The Complexity of Flow Expansion and Electrical Flow Expansion -- Foundations of Software Engineering – Full papers -- An Infrastructure for Platform-Independent Experimentation of Software Changes -- Using Process Models to understand Security Standards -- Web Test Automation: Insights from the Grey Literature -- Foundations of Data Science and Engineering – Full Papers -- A Pipeline for Measuring Brand Loyalty through Social Media Mining -- Predicting Tennis Match Outcomes With Network Analysis and Machine Learning -- Role-Based Access Control on Graph Databases -- Semi-Automatic Column Type Inference for CSV Table Understanding -- Foundations of Data Science and Engineering – Short papers -- Metadata Management on Data Processing in Data Lakes -- S2CFT: A new approach for paper submission recommendation -- Foundations of Algorithmic Computational Biology – Full Papers -- Adding Matrix Control: Insertion-Deletion Systems With Substitutions III -- Sorting by Multi-Cut Rearrangements -- Graphs cannot be indexed in polynomial time for sub-quadratic time string matching, unless SETH fails.

Sommario/riassunto	This book contains the invited and contributed papers selected for presentation at SOFSEM 2021, the 47th International Conference on Current Trends in Theory and Practice of Computer Science, which was held online during January 25–28, 2021, hosted by the Free University of Bozen-Bolzano, Italy. The 33 full and 7 short papers included in the volume were carefully reviewed and selected from 100 submissions. They were organized in topical sections on: foundations of computer science; foundations of software engineering; foundations of data science and engineering; and foundations of algorithmic computational biology. The book also contains 5 invited papers.