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Autore	Burger, C.P.
Titolo	Historisch-kritische Forschungen / von C.P. Burger
Pubbl/distr/stampa	Amsterdam : J. Mnller, 1891
Descrizione fisica	244 p., 1 c. geogr. ; 29 cm
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Collocazione	XIII L 13
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Livello bibliografico	Monografia
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Autore	Uehara Ryuhei
Titolo	Introduction to Computational Origami [[electronic resource]] : The World of New Computational Geometry / / by Ryuhei Uehara
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-4470-0
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Descrizione fisica	1 online resource (227 pages)
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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia

Nota di contenuto	Chapter 1: Unfolding -- Chapter 2: Basic Knowledge of Unfolding -- Chapter 3: Common Nets of Boxes -- Chapter 4: Common Nets of (Regular) Polyhedra -- Chapter 5: One-Dimensional Origami Model and Stamp Folding -- Chapter 6: Computational Complexity of Stamp Folding -- Chapter 7: Bumpy Pyramids Folded from Petal Polygons -- Chapter 8: Zipper-Unfolding -- Chapter 9:Rep-cube -- Chapter 10: Common Nets of a Regular Tetrahedron and Johnson-Zalgaller Solids -- Chapter 11: Undecidability of Folding -- Chapter 12: Answers to Exercises.
Sommario/riassunto	This book focuses on origami from the point of view of computer science. Ranging from basic theorems to the latest research results, the book introduces the considerably new and fertile research field of computational origami as computer science. Part I introduces basic knowledge of the geometry of development, also called a net, of a solid. Part II further details the topic of nets. In the science of nets, there are numerous unresolved issues, and mathematical characterization and the development of efficient algorithms by computer are closely connected with each other. Part III discusses folding models and their computational complexity. When a folding model is fixed, to find efficient ways of folding is to propose efficient algorithms. If this is difficult, it is intractable in terms of computational complexity. This is, precisely, an area for computer science research. Part IV presents some of the latest research topics as advanced problems. Commentaries on all exercises included in the last chapter. The contents are organized in a self-contained way, and no previous knowledge is required. This book is suitable for undergraduate, graduate, and even high school students, as well as researchers and engineers interested in origami.