1. Record Nr. UNINA9910416082503321 Autore Ida Tetsuo Titolo An Introduction to Computational Origami / / by Tetsuo Ida Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa 2020 3-319-59189-4 **ISBN** Edizione [1st ed. 2020.] Descrizione fisica 1 online resource (XII, 217 p. 2 illus.) Collana Texts & Monographs in Symbolic Computation, A Series of the Research Institute for Symbolic Computation, Johannes Kepler University, Linz, Austria, , 0943-853X 516.00285 Disciplina Soggetti Computer science—Mathematics Computer mathematics Symbolic and Algebraic Manipulation Mathematical Applications in Computer Science Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Introduction to origami -- Origami geometry and basic folds --Algebra of folds -- Origami geometry vs. Euclid geometry -- Examples -- Origami theorems and verification -- Extensions of basic folds --Three-dimensional origami. In this book, origami is treated as a set of basic geometrical objects Sommario/riassunto that are represented and manipulated symbolically and graphically by computers. Focusing on how classical and modern geometrical problems are solved by means of origami, the book explains the methods not only with mathematical rigor but also by appealing to our scientific intuition, combining mathematical formulas and graphical images to do so. In turn, it discusses the verification of origami using computer software and symbolic computation tools. The binary code

provided.

for the origami software, called Eos and created by the author, is also