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Metric Spaces of Bounded Doubling Dimension -- On Map Labeling with Leaders -- The Crossing Number of Graphs: Theory and Computation -- Algorithm Engineering, Exactness, and Robustness -- Algorithm Engineering – An Attempt at a Definition -- Of What Use Is Floating-Point Arithmetic in Computational Geometry? -- Car or Public Transport—Two Worlds -- Is the World Linear? -- In Praise of Numerical Computation -- Much Ado about Zero -- Polynomial Precise Interval Analysis Revisited.

Sommario/riassunto	This Festschrift volume, published in honor of Kurt Mehlhorn on the occasion of his 60th birthday, contains 28 papers written by his former Ph.D. students and colleagues as well as by his former Ph.D. advisor, Bob Constable. The volume's title is a translation of the title of Kurt Mehlhorn's first book, "Effiziente Algorithmen", published by Teubner-Verlag in 1977. This Festschrift demonstrates how the field of algorithmics has developed and matured in the decades since then. The papers included in this volume are organized in topical sections on models of computation and complexity; sorting and searching; combinatorial optimization with applications; computational geometry and geometric graphs; and algorithm engineering, exactness and robustness.