This volume contains the papers selected for presentation at CIAC 2017, the 10th International Conference on Algorithms and Complexity, held at the National Technical University of Athens, Greece, during May 24–26, 2017. This series of conferences presents original research contributions in the theory and applications of algorithms and computational complexity.

The volume begins with abstracts of the invited lectures, continues with contributed papers, arranged alphabetically by the last names of their authors, and concludes with an article devoted to the celebration of the 70th birthday of Stathis Zachos. The volume contains 36 accepted papers, selected by the Program Committee from 90 submissions received. Each submission was reviewed by at least three Program Committee members. Paper selection was based on originality, technical quality, and relevance.

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Springer sponsored a CIAC 2017 best paper award, which was shared by two papers: one by Hans L. Bodlaender and Tom C. van der Zanden on “Improved Lower Bounds for Graph Embedding Problems” and the other by Robert Brederoek, Christian Komusiewicz, Stefan Kratsch, Hendrik Molter, Rolf Niedermeier, and Manuel Sorge on “Assessing the Computational Complexity of Multi-Layer Subgraph Detection.” Our warmest congratulations to all of them for these achievements! We also thank the members of the Best Paper Award Committee for selecting these papers.

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