List of Publications
Dana Ron
April 2022

Journal Papers

Published and in Press


Applications to Frequency Assignment in Cellular Networks”, SIAM Journal on Computing, volume 33, no. 1,

System Sciences (FOCS02 special issue), volume 68, no. 4, pages 753-787, 2004.


This paper, based on [J24], was chosen as the SIGEST selection by the SIAM editors. According to the citation: “In each
issue of SIAM Review, the SIGEST section contains an outstanding paper of general interest that has previously appeared
in one of SIAM’s specialized research journals.”


Selected for ACM’s list: “Best of computing, notable books and articles”, 2016.


**Book Chapters**


**Invited Encyclopedia Entries**


Extended Papers in (Refereed) Conference Proceedings


[C3] D. Ron, Y. Singer, and N. Tishby, “The power of amnesia”, in *Advances in Neural Information Processing Systems (NIPS) 6*, Morgan Kaufmann, pages 176–183, 1993. (This work was merged into [J3].)


1Though the term “workshop” appears in the title, this is a (refereed) conference.


[C34] T. Kaufman and D. Ron, “Testing Polynomials over General Fields”, in Proceedings of the 45th Annual Symposium on Foundations of Computer Science (FOCS), pages 413–422, 2004. (This work is an extended abstract of [J35], and part of it is included in [J33].)


[C37] S. Marko and D. Ron, “Distance Approximation in Bounded-Degree and General Sparse Graphs”, in Proceedings of the 10th International Workshop on Randomization and Computation (RANDOM), pages 475–486, 2006. (This is an extended abstract of [J43].)


[C41] M. Gonen, D. Ron, U. Weinsberg, and A. Wool, “Finding a Dense-Core in Jellyfish graphs”, in Proceedings of the 5th Workshop on Algorithms and Models for the Web-Graph (WAW), pages 29–40, 2007. (This is an extended abstract of [J40], also invited to the special issue of Internet Mathematics.)
I. Ben-Eliezer, T. Kaufman, M. Krivelevich, and D. Ron, “Comparing the strength of query types in property testing: The case of testing \( k \)-colorability”, in Proceedings of the 19th annual ACM-SIAM Symposium on Discrete Algorithms (SODA), pages 1213–1222, 2008. (This is an extended abstract of [J55].)


O. Goldreich and D. Ron, “Algorithmic aspects of property testing in dense graphs”, in Proceedings of the 13th international Workshop on Randomization and Computation (RANDOM), pages 520-533, 2009. (This is an extended abstract of [J48].)

D. Ron and G. Tsur, “Testing Computability by Width-2 OBDDs”, in Proceedings of the 13th international Workshop on Randomization and Computation (RANDOM), pages 686–699, 2009. (This is an extended abstract of part of [J53].)


E. Dolev and D. Ron, “Distribution-Free Testing Algorithms for Monomials with a Sublinear Number of Queries”, in Proceedings of the 14th international Workshop on Randomization and Computation (RANDOM), pages 531–544, 2010. (This is an extended abstract of [J50].)


D. Ron and G. Tsur, “On Approximating the Number of Relevant Variables in a Function”, in Proceedings of the 15th international Workshop on Randomization and Computation (RANDOM), pages 676–687, 2011. (This is an extended abstract of [J58].)


[C57] R. Levi and D. Ron, “A Quasi-Polynomial time partition oracle for graphs with an excluded minor”, in *Proceedings of the 40th International Colloquium on Automata, Languages and Programming (ICALP)*, pages 709–720, 2013. (This is an extended abstract of [J62].)


[C64] G. Even, M. Medina and D. Ron, “Distributed Maximum Matching in Bounded Degree Graphs”, in *Proceedings of 16th International Conference on Distributed Computing and Networking (ICDCN)*, pages 18:1–18:10, 2015. (This is an extended abstract of part of [J70].)


