Nil Mamano

Computer Science Department
Donald Bren School of Information & Computer Sciences
Univ. of California, Irvine

nil.mamano@gmail.com
http://www.nmamano.com/

Education

University of California, Irvine, USA

- PhD in Computer Science, GPA 3.83/4 — Sep 2019
- Masters in Computer Science, GPA 3.83/4 — Sep 2019

Polytechnic University of Catalonia, Spain

- B.E. in Computer Science, GPA 9.5/10 — Jul 2015

Awards and Honors

- Balsells Graduate Fellowship — 2015–2016
- Formula Santander Scholarship — 2014
- Balsells Fellowship, Undergraduate Mobility Program — 2014

Publications

Conference Publications

C6. N. Mamano, A. Efrat, D. Eppstein, D. Frishberg, M.T. Goodrich, S. Kobourov, P. Matias, V. Polishchuk, "Euclidean TSP, Motorcycle Graphs, and Other New Applications of Nearest-Neighbor Chains", ISAAC 2019

C5. G. Barequet, D. Eppstein, M. T. Goodrich, and N. Mamano, "Stable-Matching Voronoi Diagrams: Combinatorial Complexity and Algorithms", ICALP 2018

C4. D. Eppstein, M.T. Goodrich, and N. Mamano, "Reactive Proximity Data Structures for Graphs", LATIN 2018

C3. D. Eppstein, M.T. Goodrich, D. Korkmaz, and N. Mamano, "Defining Equitable Geographic Districts in Road Networks via Stable Matching", SIGSPATIAL 2017 (short paper)

C2. D. Eppstein, M.T. Goodrich, and N. Mamano, "Algorithms for Stable Matching and Clustering in a Grid", IWCIA 2017

C1. D. Eppstein, M.T. Goodrich, J. Lam, N. Mamano, M. Mitzenmacher, and M. Torres, "Models and Algorithms for Graph Watermarking", ISC 2016 *Best Student Paper Award*

Journal Publications

J3. G. Barequet, D. Eppstein, M.T. Goodrich, and N. Mamano, "Stable-Matching Voronoi Diagrams: Combinatorial Complexity and Algorithms", JoCG 2020

J2. W. Hayes and N. Mamano, "SANA NetGO: a combinatorial approach to using Gene Ontology (GO) terms to score network alignments", Bioinformatics: Oxford Journals, 2018

J1. N. Mamano and W. Hayes, "SANA: Simulated Annealing far outperforms many other search algorithms for biological network alignment", Bioinformatics: Oxford Journals, 2017

In Submission

S1. J.J. Besa, T. Johnson, N. Mamano, M.C. Osegueda "Taming the Knight's Tour: Minimizing Turns and Crossings", Preprint available on arXiv.

Posters

P1. J. J. Besa, T. Johnson, N. Mamano, and M. Osegueda "Taming the Knight's Tour: Minimizing Turns and Crossings", Graph Drawing 2018

Other Publications (not peer-reviewed)

O1. C. Creus, P. Fernández Durán, G. Godoy, N. Mamano "Automatic evaluation of top-down predictive parsing", Research Report, UPCommons, 2016

Research Experience

- Visiting Researcher, University of California, Irvine, US — Feb - Jul 2015
  Host: Professor Wayne Hayes
- Research Intern, Polytechnic University of Catalonia, Spain — Jan – Oct 2014
  Mentor: Professor Guillem Godoy

Teaching Experience

Teaching Assistant at University of California, Irvine, USA

- Graph Algorithms — Spring 2017, Spring 2018
- Formal Languages and Automata Theory — Winter 2018
- Design and Analysis of Algorithms — Fall 2016, Winter 2017

Guest Lectures

- "Graph Separators", for "Graph Algorithms and Applications" at Pomona College — Fall 2018
- "Euler Tours", for "Graph Algorithms" at UCI — Spring 2018
- "Stable Matching", for "Graph Algorithms" at UCI — Spring 2017
- "Graph Coloring", for "Graph Algorithms" at UCI — Spring 2017