Miguel Bosch Calvo

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List of Publications

- An $O(\log \log n)$ -Approximation for Submodular Facility Location | Fateme Abbasi, Marek Adamczyk, Miguel Bosch-Calvo, Jarosław Byrka, Fabrizio Grandoni, Krzysztof Sornat, and Antoine Tinguely | ICALP2024
- A 4/3 Approximation for 2-Vertex-Connectivity | Miguel Bosch-Calvo, Fabrizio Grandoni, and Afrouz Jabal Ameli | ICALP2023 (Best paper award)
- An Improved Kernel for the Flip Distance Problem on Simple Convex Polygons | Miguel Bosch-Calvo, and Steven Kelk | Information Processing Letters (A preliminary version appeared in CCCG 2021)
- A 5/4 Approximation for Two-Edge-Connectivity | Miguel Bosch-Calvo, Mohit Garg, Fabrizio Grandoni, Felix Hommelsheim, Afrouz Jabal Ameli and Alexander Lindermayr | Accepted to STOC2025
- A PTAS for Triangle-Free 2-Matching | Miguel Bosch-Calvo, Fabrizio Grandoni, and Afrouz Jabal Ameli | Manuscript

Education

Ph. D. in Computer Science

Jan. 2022 - Now

Istituto Dalle Molle di Studi sull'Intelligenza Artificiale (IDSIA, USI-SUPSI)

Lugano, Switzerland

- Under the supervision of Prof. Fabrizio Grandoni https://people.idsia.ch/~grandoni/.
- The main field of study is approximation alorithms for survivable network design.
- Expected graduation date: 12/25.

Master in Data Science for Decision Making

Feb. 2020 - June 2022

Maastricht University

Maastricht, The Netherlands

• Graduated cum laude.

Master in Industrial Engineering

Sep. 2017 - July 2019

Polytechnic University of Valencia

Valencia, Spain

Bachelor in Engineering in Industrial Technologies

Sep. 2013 - June 2017

Polytechnic University of Valencia

Valencia, Spain

Experience

Rudo. App development for IOS and Android

Jan. 2019 - July 2019

Internship as a Software Engineer (Back-end Developer)

Valencia, Spain

- Rudo is a tech company specializing in consulting and developing mobile apps.
- Worked as an intern developing back-ends with Django Rest Framework for Python.

Teaching

Teaching Assistant

Jan. 2022 - Now

Scuola Universitaria Professionale della Svizzera Italiana (SUPSI)

Lugano, Switzerland

Courses: Advanced Algorithms and Data Structures and Approximation Algorithms.

Teaching Assistant

Sep. 2020 - Dec. 2020

Maastricht University

Maastricht, The Netherlands

• Courses: Discrete Mathematics and Linear Programming.

Other Information / Extracurricular

Languages

- English: English Exams Certificate in Advanced English (CAE) C1
- Catalan: Official Mitjà Exam C1
- Spanish: Native Spanish speaker

Volunteering at a Scout Group

Sep. 2004 - July 2018

• Member of a Scout group during 14 years, first as a member and later as a volunteer. Scout leader during 4 years and Scout leader coordinator during 1 year.