



Politecnico di Milano

Dipartimento di Elettronica, Informazione e Bioingegneria

prof. Fabrizio Ferrandi

Advanced Algorithms and Parallel Programming 1st part (Advanced Algorithms)–June 15th 2021

Polimi ID _____

Surname _____ **Name** _____

- This is a closed-book examination. You cannot use computers, phones or laptops during the exam.
- Paper will be provided, but you should bring and use writing instruments that yield marks dark enough to be read easily. Erasable pens can be used.
- Total available time: 1h:00m.

Exercise 1 (5 points) _____

Exercise 2 (6 points) _____

Exercise 3 (5 points) _____

Exercise n. 1

Describe the Karger's Min-Cut Algorithm.

Exercise n. 2

Describe how Treap **split/union** works.

Exercise n. 3

Discuss how move to front heuristic works for self-organizing lists.