Fall 2021 COMPUTER SCIENCE 5300

Advanced Algorithm Design and Analysis Group #1 Proposal

1 What style your use, IEEE or MLA?

IEEE

2 Title of the topic

Branch and Bound

3 Group number and full names of all members.

Rick Ramirez, Ruben Bramasco, Vikram Sai Kishan Sriram

- 4 A brief description of the topic
- 5 Live or pre-recorded? For your team presentation.

Pre-recorded

6 At least five main references to recent books or technical articles you plan to use

References

[1] Flavio Baccari, Christian Gogolin, Peter Wittek, and Antonio Acín. Verifying the output of quantum optimizers with ground-state energy lower

bounds. Physical Review Research, 2(4):043163, 2020.

[2] Ashley Montanaro. Quantum speedup of branch-and-bound algorithms. $Physical\ Review\ Research,\ 2(1):013056,\ 2020.$