Class Project Information

The project can be (i) an in-depth study of key papers in an area not covered in class, (ii) a solution to an open problem, or (iii) a new problem with some preliminary results. The project needs to be in the general area of network information theory.

- **Grouping**: Projects can be done in groups of 1 to 2 students. A list of recommended projects is provided below. You can propose your own project.

- **Presentation**: Each group will be given 25 minutes to present their project in the last week of the class (the week of March 10).

- **Final report**: Each group should submit a hard copy and an electronic copy of their project report by 4pm on Thursday, March 20. The projects should be submitted in the IEEE two column format, which we will provide you with. Project reports should not exceed 4 pages (including references).

- **Recommended project topics**:

  1. **Universal denoising**
     
     
     

  2. **Universal filtering**
     
     

  3. **Context-tree weighting**
     

4. **Burrows-Wheeler transform**

5. **Universal lossy compression**

6. **Universal algorithms for large alphabets**

7. **Universal decoding**

8. **Universal classification**
9. Entropy estimation


