Course Webpage

- http://comp.uark.edu/~jingyang/uark/Teaching

Course Material


Prerequisites

- ELEG 3143  Probability and Stochastic Processes

Course Outline

1. Entropy, relative entropy and mutual information (Chapter 2)
2. Asymptotic equipartition property (Chapter 3)
3. Entropy rates of a stochastic process (Chapter 4)
4. Data compression (Chapter 5)
5. Channel capacity (Chapter 7)
6. Differential entropy (Chapter 8)
7. Gaussian channel (Chapter 9)
8. Rate distortion theory (Chapter 10)
9. Network information theory (Chapter 15)

The above schedule is subject to change without prior notice.

Grading

- homework assignments (5%), midterm 40%, final exam (55%).

Exam Dates

- Midterm: Tuesday, March 12, in class.
- Final exam: Thursday, May 9, 8:00am-10:00am.

Academic Honesty

Each University of Arkansas student is required to be familiar with and abide by the University's Academic Integrity Policy which may be found at http://provost.uark.edu/. Students with questions about how these policies apply to a particular course or assignment should immediately contact their instructor.