Principles of Digital Communications

Time and location:
  Wednesdays, 15–18, INM 202
  Fridays, 10–13, INM 202

Instructor:
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Graduate teaching assistants:
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Prerequisite:
  Signal processing for communications
  Stochastic processes for communications

Web page: http://ipg.epfl.ch/

Textbook:
  B. Rimoldi, Principles of digital communication: a top-down approach,
  Online version: nb.mit.edu.

Course mechanics:
  Weekly reading and problem assignments,
  Two quizzes (10%, dates to be assigned during the semester),
  Midterm exam (35%, date: Friday, April 20, 2018),
  Project (15%, to be announced in April),
  Final exam during finals period (40%).

Approximate Outline:
  Hypothesis testing and discrete time receiver design (3 weeks)
  Continuous time receiver design (3 weeks)
  Signal constellation design (3 weeks)
  Waveform design, coded transmission (3–4 weeks)
  Additional topics (1–2 weeks)