9.520/6.860: Statistical Learning Theory and Applications

Class: Mon., Wed. 1:00 - 2:30 pm, 46-3310 (PILM Seminar Room)

Office Hours: 　　Friday 1:00 pm - 2:00 pm, 46-5156 (Poggio lab lounge) and/or
　　　　　　　　46-5165 (MIBR Reading Room)

Web: http://www.mit.edu/~9.520/

Contact: 9.520@mit.edu

Mailing list: 9.520students@mit.edu

- 9.520/6.860 will use Stellar
- Mailing list and web (announcements) for updates

Material

Slides— will be posted (for most lectures)

Videos— check CBMM

Notes—

L. Rosasco and T. Poggio, **Machine Learning: a Regularization Approach, MIT-9.520 Lectures Notes**, Manuscript, Dec. 2016 **(will be provided)**
For feedback on book (typos, errors, ...)
https://goo.gl/forms/pQcewnsAV3lCNoyr1

Grading policies

- **Problem sets (0.6)**
  - 6 problem sets (0.10 each)
  - See next slide for more details
- **Project (0.3)**
  - See later
- **Participation (0.1)**
  - *Attending class lectures is required!*
  - Sign-in sheet will be circulated 5 (random) times

Problem sets

- Problem sets (0.6)
  - 6 problem sets (0.10 each)
    - 2 - 3 questions (demonstrations/exercises + short MATLAB)
    - 7 days due!
  - typeset in LaTeX (template provided)
  - *online submission by due date; printed submission in next class*
- Late policy

  - All students have 4 free late days (to be used on psets and project proposal)

  - You may use up to 2 late days per assignment with no penalty

  - Beyond this, we will deduct a late penalty of 50% of the grade per additional late day

Dates (due times are 11:59 pm). Submission online (dbox link).

[pset 1] Wed. Sep. 19, due: Tue., Sep. 25
[pset 2] Wed. Oct. 3, due: Tue., Oct. 09
[pset 3] Wed. Oct. 17, due: Tue., Oct. 23
[pset 4] Wed. Oct. 31, due: Tue., Nov. 06
[pset 5] Wed. Nov. 19, due: Tue., Nov. 25
[pset 6] Wed. Dec. 5, due: Tue., Dec. 11

Collaboration policy: You may discuss with others but need to work out your own solution.

Projects

A) Theory
B) Algorithms
C) Application
- This is not a data science course, so we will not consider data preparation as contributing to the grade.
D) Coding
E) Wikipedia

- report (NIPS format): 4 pages (+ Appendix), 6 pages max

OR

- poster session (last week of classes)

Dates

- Abstract and title: Oct. 31
- Feedback and approval: Nov. 7
- Poster and revised abstract submission: Dec. 10
- Poster presentations: Dec. 12
- Report submission: Dec. 12