

Kernel-Based Learning & Multivariate Modeling

MIRI Master

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Half-term project (I)

Assessment

20 % - technical correctness

20 % - methodological correctness

20 % - amount & quality of experiments

10 % - originality of work

20 % - discussion & conclusions

10 % - introduction & previous work

Half-term project (II)

Possibilities ...

- A) Apply an **standard kernel method** (SVM for CRND) to a **specific problem** of your interest; comparison to other approaches
- B) Choose and apply an algorithm/technique that has already been **kernelized** (except the SVM), study it [program it?], and apply it to one or more [benchmark] problem(s); comparison to the standard version
- C) Study a **non-standard kernel** (not for \mathbb{R}^d) [program it?], and apply it to a **specific problem** of your interest, with one or more kernel method(s).
- D) Study one of the supplied **scientific papers**

Half-term project (III)

Format

What to deliver?

- Written document (**pdf** preferred), recommended size 8-12 pages, and structured according to scientific standards:
 1. Title, Abstract, Introduction, Previous work
 2. Own work: theory, experiments, discussion
 3. Conclusions, critical assessment and future work
- R/python/C++ ... code in a separate file

Where to deliver? Via the **Racó**

When to deliver? No later than **December 10, 2021**