**Bonus assignment**        **Due date:**  Wednesday, 22 November 2023, 11:59 PM

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### Numerical Computing 2023 — Submission Instructions
**(Please, notice that following instructions are mandatory:
submissions that don't comply with, won't be considered)**

- Assignments must be submitted to iCorsi (i.e. in electronic format).
- Provide both executable package and sources (e.g. C/C++ files, MATLAB). If you are using libraries, please add them in the file. Sources must be organized in directories called:

  *Project_number_lastname_firstname*

  and the file must be called:

  *project_number_lastname_firstname.zip*
  *project_number_lastname_firstname.pdf*
- The TAs will grade your project by reviewing your project write-up, and looking at the implementation you attempted, and benchmarking your code's performance.
- You are allowed to discuss all questions with anyone you like; however: (i) your submission must list anyone you discussed problems with and (ii) you must write up your submission independently.

**Exercise 1: Inconsistent systems of equations [10 points]**

**Exercise 2: Polynomials models for least squares [20 points]**

**Exercise 3: Analysis of periodic data [20 points]**

**Exercise 4: Data linearization and Levenberg-Marquardt method for the exponential model [20 points]**

**Exercise 5: Tikhonov regularization [15 points]**