POLITECNICO DI MILANO - SEDE DI COMO

MODEL IDENTIFICATION AND ADAPTIVE SYSTEMS

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Final Exam – January 25, 2018

Answer the following questions:

1) Illustrate the main characteristics of an adaptive control algorithm and discuss the main issues involved in its design.

2) Discuss the computational complexity of the LMS algorithm.

3) Describe the linearized and extended Kalman filtering approaches, discussing their differences.

4) Describe the difference between comb and notch filters.

Instructions:

- Report your name and identification number on the top right corner of the first page.

- Use separate pages for answers to different questions (one page for each question).

- Books, course slides, notes are not allowed.