

Laboratory of Adaptive Control - remarks on a final report

SAAS, semester 1M

Essential components of a good report shall include:

1. Introduction (objectives, scope, and assumptions of the project).
2. Description of the control system. Presentation of the selected values of parameters, initial conditions, reference signals, etc.
3. Presentation of the results in the form of time plots for the following signals (it depends on the particular project topic): the tracking error, the model-following error, the control signal, the parameter estimates of a plant model, the reference signal together with the plant-output, the other important/characteristic signals for the project topic (note: physical units are important!).
4. Presentation of selected quantitative results in the form of obtained values in tables, comparison results on additional plots, etc.
5. Constructive comments to the results explaining all the important effects visible on the plots, differences between the theoretical forecasts and practical results, reasons of potential negative results, conclusions on the comparison results, etc.
6. Short concluding remarks.

IMPORTANT NOTES:

- All the results shall be clearly and esthetically (!) presented.
- Multiple signals presented on a common plot shall be distinguished by various line styles/colors with a legend included on the plot.
- The grid lines shall be present on all the plots. A meaning of the axes shall be denoted, and physical units shall be added to the description of signals.
- Comments to the results shall be concise and clearly formulated. When formulating the comments one should apply the '*strong rationality rule*', according to which the degree of conviction shall not exceed the degree of its confirmation. Clearly indicate when some of the formulated comments have a subjective character (that is, if they represent a personal opinion of the students rather than a general conclusion).
- The length of the report shall not exceed 10 pages of the A4 format.