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Título: *Systems and Control in the Engineering of Advanced Systems*

Resumo: This presentation focus on some of the current major societal challenges for which the control of multiple autonomous devices in articulation with human operators are required.

In this talk an overview of the R&D work done at LSTS - FEUP with an emphasis on how to close the gap between the scientific innovation and the transition of the developments to their endusers. This spans various research issues in control and optimization, as well as, the technological and methodological frameworks required for a successful specification of systems objectives and requirements.

This is essential in order to (i) ensure the structuring dimension of effort undertaken, and (ii) a proper management of the expectations that naturally motivate the interaction between the various diverse communities.

Finally, some small successful stories will be reported.