

ENERGETICS

ALSTOM - Hydrogen trains: adaptive algorithms for section consumption forecast

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Context of the research activity	Hydrogen technologies Railway applications
Objectives	Develop an algorithm for forecasting vehicle consumption and range, taking into account data available in real time. Definition of the algorithm taking data from the model, and controlling the model Develop the algorithm. Interface of the algorithm with the model of WP1 First check of the algorithm with test at lab level of some of the technologies to be controlled (PEMFC, batteries) in terms of capability of forecast
Skills and competencies for the development of the activity	Hydrogen processes and technologies Thermodynamics and heat transfer System modeling Machine learning