Research unit Naval architecture, Maritime engineering, Inland and Sea shipping, Transport System Analysis

// Website research group





imis-id 3852

Data & information management and computing infrastructure

Infrastructure Categories		Infrastructure
	Overview	8
	Marine land- based facilities for engineering	 Towing tank: length: 100 m, height: 6 m, Depth: 4 m Moving platform (Max speed : 6 m/sec, Length measuring the maximum speed: 30 m, Fully automated and programmable controls, Model up to 4 m) Wave generator (Generator type component single joint (computer control), Wave type: regular or random, Maximum amplitude waves: 0.4 m, Period : 1 s to 10 s) Associated equipment 1 component dynamometer balance 6 components dynamometer balance Measurement system of self-propulsion Motion capture with camera System data acquisition, processing and calculation
	Num. models, spec. software and comp. IR	 Several software packages were developed for fluvial and maritime transport AIWAT (fluvial traffic) ESTIMA (choice of mode of transport) OLEMSE1 (optimisation of location emergency posts) OLEMSE2 (optimisation of emergency routes) WINOLEMSE (integration of OLEMSE1 and OLEMSE2 for Windows) Traffic management in locks Traffic management in ports Economic evaluation of cost/benefits Market analysis (attractiveness & competitiveness) Development of software in support of multi-criteria decision CCT-VEI, (cost of fluvial transport) Costs of transport of an intermodal transport chain Software for ship building LBR-5 (optimisation of floating and sailing structures) LUNAIS (construction of ships)

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