

Partner Search Form

1. Project Proposal Information

Project Proposal Title	Intelligent Energy Management of Electric Vehicles
Project Proposal Acronym	IEM_EV
Keywords	Electric vehicles, energy management, intelligent control
Abstract (Max. 2000 words)	<p>Energy management in electric vehicles is an important issue because it can significantly influence their performance and vehicles range. Improving energy management in electric vehicles could provide better use of stored energy in batteries as well as their recharging during different driving and/or braking situations. Intelligent energy management could monitor and learn driver - vehicle behavior and intelligently control of operation of the electric vehicle related to use of stored energy during driving or an optimization of synergy action between regenerative and traditional friction based braking. The intelligent energy management is based on an optimization of electromotor driving torque delivered to wheel versus its slip in different driving situations. It could be done by development of an intelligent model of driving wheels operation able to predict an appropriate driving torque on each wheel according to wheel adhesion to road and wanted (predefined) value of wheel slip. On the other hand, the similar intelligent model related to wheel slip could be used for an optimization of regenerative braking share in the total vehicles braking performance versus driver demands, road conditions, and need for batteries recharging. Such approach could provide a better energy management of electric vehicles and improving driving and braking vehicles performance.</p>
Project Description (Main Work Packages)	
Current Consortium (Partners, Organisation Types)	
Deadline for Responses	

2. Profile of the Partners Sought



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Organisation Type	
Required Skills and Expertise	
Role in the project	Lead a project
Other Requirements	

3. Project Proposer Information

Name of the Organisation	Faculty of Mechanical Engineering University of Belgrade, Laboratory for motor vehicles safety_LaBMV.
Organisation Type	R&D
Country	Serbia
Fields of Activity	Motor vehicles, road safety, active and passive safety of motor vehicles, new materials, artificial intelligence (fuzzy logic, artificial neural networks, genetic algorithms), intelligent solutions (modelling, optimization, prediction, monitoring).
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Previous FP Projects Participated	

Please send filled in form by 25. 3. 2011 to: fg.tec@uni-mb.si