MOSARIM

Project ID: 248231
Funded under: FP7-ICT

MOr e Safety for All by Radar Interference Mitigation

From 2010-01-01 to 2012-12-31, closed project | MOSARIM Website

Project details

| Total cost: | EUR 4 785 310 |
| Topic(s): | ICT-2009.6.1 - ICT for Safety and Energy Efficiency in Mobility |
| EU contribution: | EUR 2 897 173 |
| Call for proposal: | FP7-ICT-2009-4 See other projects for this call |
| Coordinated in: | Germany |
| Funding scheme: | CP - Collaborative project (generic) |

Objective

Since several years millimeter-wave radar systems are used for vehicular applications, predominantly in comfort functions and a few in safety functions. Different frequencies and modulation schemes, emission powers and radiation patterns are used and up to now almost no care or precaution is undertaken to reduce or avoid mutual interference. Within a few years the penetration rate of vehicular radar systems will drastically increase in this new emerging market and especially for safety-related applications the interference risk will threaten further proliferation if harmful mutual interference pops up. Trying to find efficient and pragmatic countermeasures to avoid the apparent interference risk at that point in time in the future, when severe interference problems create malfunction or out-of-order situation of the safety radar devices, is too late. The only reasonable and valid approach is to counteract in advance before the problem becomes manifest. As almost nothing exists regarding radar interference mitigation for automotive radars this research project aims to generate a first assessment, a common understanding of the interference effects and problematic and a first set of recommendations and guidelines to avoid inefficient interference troubleshooting at a later stage. A well-selected consortium of specialists from all disciplines necessary to realize the project aims is already operational and prepared to tackle the demanding challenges. The project outcome and results are vitally important for a long-standing success of radar-based devices for automotive systems. The results of this project proposal also create the foundation for taking the next step in further reducing the number of people being killed or injured by vehicles, after the EC recently forced all OEMs to make ESP mandatory in new cars. Missing the results that will be achieved within this project, will have a severe and strong impact on the vehicular radar roadmap beyond 2015.

Related information

Documents and Publications

Final Report
Project Factsheet
Report on conclusions and outlook
Use cases description list for simulation scenarios
Impact study of the interference with respect to ASIL
Requirements and specification of a norm interferer
Short report on impact of environment, traffic participants and infrastructure
The final normalized interferer prototypes are available for experiments
Short report on simulation model validation with real world measurements
Short report on the susceptibility model
Short report on simulation model validation with laboratory measurements
Short report on multiinterference effects
Short report on interference risk from incumbent frequency users and services
Report on defined classes and classified countermeasures
Short report on interference density increase by market penetration forecast
Report on derived recommendations for safety functions with higher requirements
Short report on state-of-the-art interference mitigation techniques
Report on derived guidelines for safety functions with lower requirements
Study report on relevant scenarios and applications and requirements specification
Awareness and wider societal implications

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**EU contribution:** EUR 93,600

**EU contribution:** EUR 232,186

**EU contribution:** EUR 253,257

**EU contribution:** EUR 313,077
EU contribution: EUR 23 913

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**Subjects**

Electronics and Microelectronics - Energy Storage and Energy Transport - Information Processing and Information Systems - Safety

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