

Sensor data fusion

Irmgard Heiber
European Commission
Directorate General Information Society and Media
ICT for Transport

Sensor data fusion

- Sensing of environment essential for any active, passive and preventive safety application
- From « one single sensor per application » to « multiple sensor platform serving all applications » in a car
- Sensor data fusion is essential

ProFusion in PReVENT

- Integrated project on Preventive Safety
 - Some numbers:
 - 52 partners
 - ~ 55 M€ total budget, ~ 30 M€ EU funding
 - 13 sub projects
 - 4 years duration from 2004 on
- ➔ The biggest integrated project in our sector



2nd Fusion Forum of Profusion



European Commission
Information Society and Media



ProFusion in PReVENT

- Sensors and sensor data fusion a common topic for all subprojects
- Unique chance to get access to many different sensors and applications
- Unique chance to compare different approaches and evaluate sensor data fusion



2nd Fusion Forum of Profusion



European Commission
Information Society and Media

ProFusion in PReVENT

- Two step procedure for subproject
 - First definition of research priorities of sensor and sensor data fusion
 - Launching of a new subproject
- Development of common tools like the flexible and modular fusion architecture
- Application of this architecture to different use cases

ProFusion approach applied to other European projects

- SAFESPOT
 - common partners in two subprojects
 - Profusion approach and fusion architecture is used and adapted to cooperative systems
- Invitation to others to build on the work of Profusion



2nd Fusion Forum of Profusion



European Commission
Information Society and Media

Sensor data fusion: the future

- ICT for Mobility (WP FP7 2007)
First call on ICT for Intelligent Vehicles
and Mobility services
« ICT research in Intelligent Vehicle
Systems will offer a higher degree of
accident prevention through improved
driver-warning strategies, hazard
detection, actuation and **sensing
including sensor fusion and sensor
networks....**

Sensor data fusion: the future

- ICT for Mobility (WP FP7 2007)
Second call on ICT for Cooperative systems
« ICT research in Cooperative Systems will delivernew levels of support to active safety systems. By combining technologies such as accurate positioning and **improved sensor networking**, research is expected to lead towards « zero-accident » scenarios.

Further information

Irmgard Heiber

irmgard.heiber@ec.europa.eu

i2010 Intelligent Car Initiative

http://ec.europa.eu/information_society/activities/esafety/intelligent_car/index_en.htm

eSafety Web-site:

http://ec.europa.eu/information_society/activities/esafety/index_en.htm

FP7 website

<http://cordis.europa.eu/fp7/ict/>



i2010

Intelligent Car Initiative



European Commission
Information Society and Media



2nd Fusion Forum of Profusion



Thank you for your attention
and
have a nice and interesting
workshop



2nd Fusion Forum of Profusion



European Commission
Information Society and Media