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FRAV

Face Recognition and Artificial Vision Group

Department of Computer Architecture and Technology, Computer Science and Artificial Intelligence. High Technical School of Computer Engineering.

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Research

Face Recognition

Computer Vision for Traffic and Road Safety

Computer Vision for Airport Security

Biometrics and Computer Vision Laboratory

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Computer Vision for Traffic and Road Safety

- **CABINTEC: Intelligent Cabin for Road Transportation.**
- **Automatic Classification and Sequential Analysis of Pedestrian-Vehicle Conflicts**
- Research of traffic lights intersections regulated by computer vision
- Analysis of the Spanish presence in Vehicle Safety Forums
- Catalogue of Educaction Activities for Road Safety Technicians
- PQN: Pedestrians' Quality Needs

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- This project aims to design the cockpit of a vehicle equipped with **intelligent technologies** able to detect the **driver's behaviour** (healthy habits vs. dangerous conducts in the context of a safe driving), as well as the study of the parameters describing the vehicle and the driver in the **previous instans of an accident**.

CABINTEC:

Intelligent Cabin for Road Transportation

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CABINTEC:

Intelligent Cabin for Road Transportation

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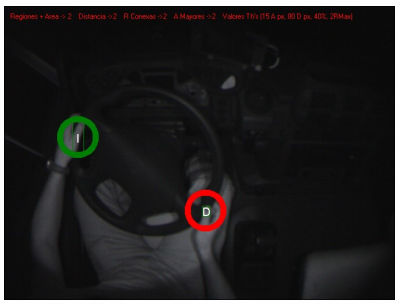

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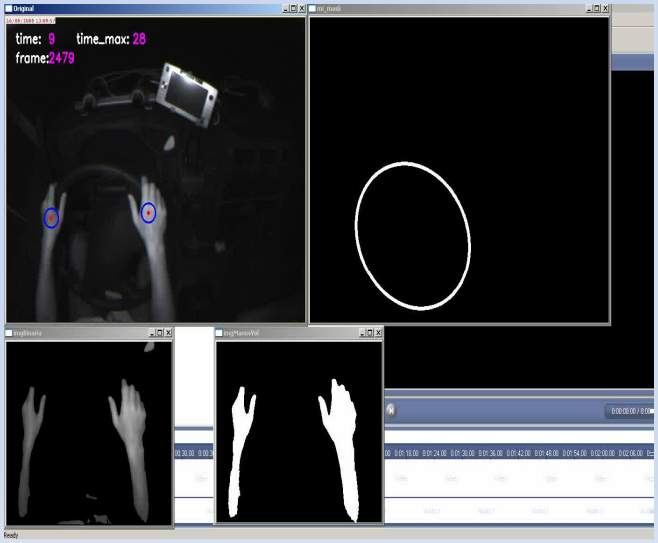

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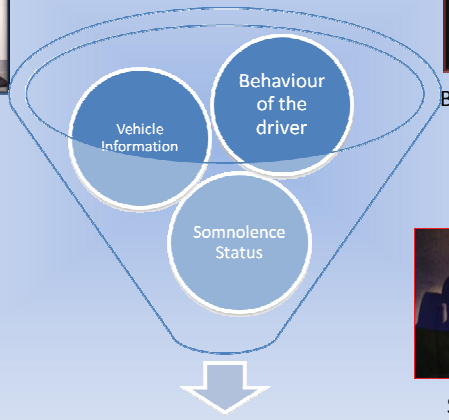
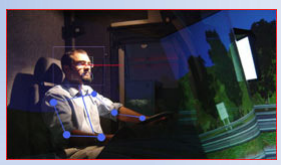
Vehicle Information

Behaviour of the driver





Somnolence Status

Alert !

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- This project consists on the development of a video sensor in order **to study conflicts at pedestrian crossings** in the city of Salamanca (Spain). The video sensor analyzes a set of images captured at two crossings and, by means of the selection of the elements in the image, distinction between pedestrians and vehicles**, trajectories tracking and speed measurements**, it detects the existence of **pedestrian-vehicle conflicts**. The project was performed in collaboration of the Psychology Department of the Salamanca University, which focused on the obtainment of real parameters that influence the danger degree at pedestrian crossings.

Automatic Classification and Sequential Analysis of Pedestrian-Vehicle Conflicts.

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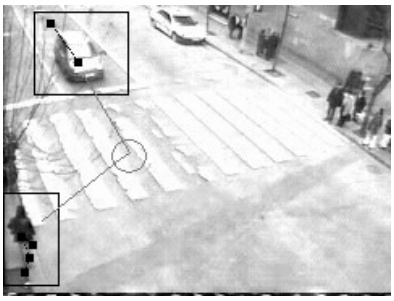
- Conflict



Automatic Classification and Sequential Analysis of Pedestrian-Vehicle Conflicts.

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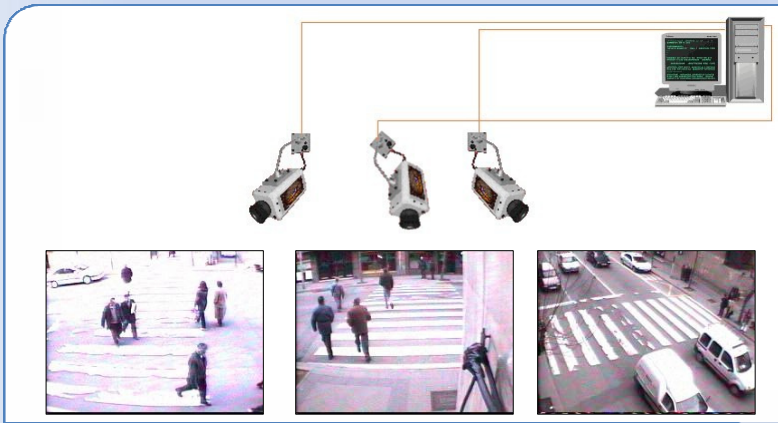

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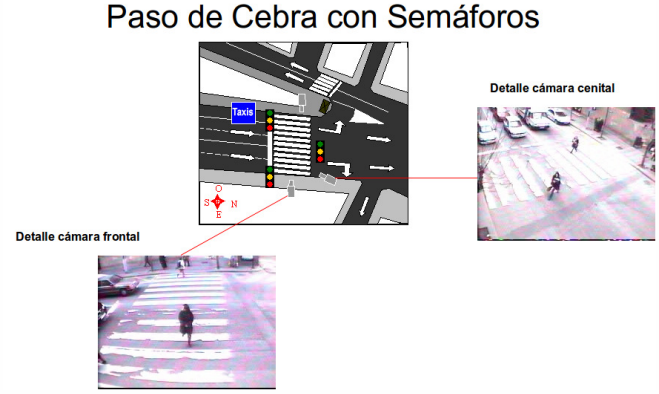

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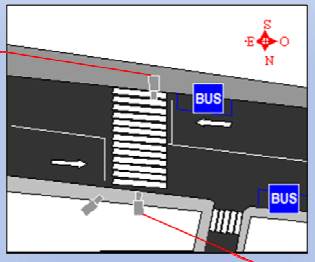
Detalle cámara frontal



Detalle cámara cenital

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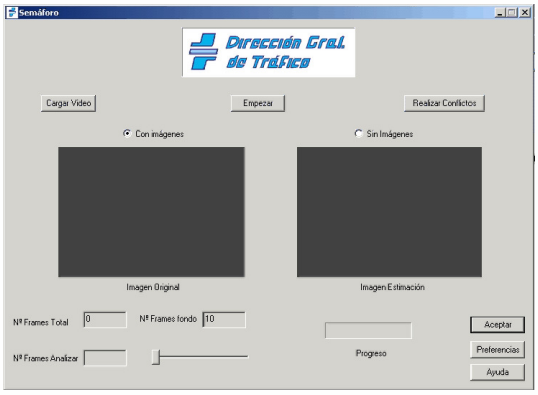

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