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Keywords *select as appropriate*	**Security**	x	**Fraud Control**	o	**Privacy**	o
(Add keywords from list)	Biometrics		Data Warehousing			
Sensor Processing	Behavioural Studies					

Research Overview:

Biometrics and Sensor Processing Algorithms:
Modelling and tracking people seen in cctv images

Warehousing:
Storage of annotated images obtained by cctv surveillance. Annotations describe activities in the scene, for example, level of crowding, whether people are walking or running.

Behavioural Studies:
Patterns of behaviour inferred from cctv images of people.

The Computational Vision Group in the Department of Computer Science carries out research in the modelling and tracking of vehicles and people in cctv images. Algorithms have been developed for inferring the 3D motions of vehicles and people in complex scenes, for taking account of occlusions, and for inferring behaviours, for example, two people meeting, or a person remaining near a car.

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Research Project overviews:

Researcher(s): S.J.Maybank; Paolo Remagnino; Tom Grove
Prof David Hogg; School of Computer Studies, Leeds
email: S.J.Maybank@reading.ac.uk; p.remagnino@kingston.ac.uk
details: Model Based Visual Surveillance. EPSRC funded project in collaboration with the University of Leeds, grant reference GR/K46620, 1996-1998. The project combined a pedestrian tracker developed at Leeds with a vehicle tracker developed at Reading to make a single tracker for pedestrians and vehicles moving in close proximity in complex scenes.

Researcher(s): S.J.Maybank
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detail: ADVISOR. Framework V project on the analysis and storage of cctv images

of passengers taken in Metro stations. The aims are to estimate crowd densities and flows, to track individuals as they move from camera to camera, to classify and detect passenger behaviours, to detect hazardous situations and behaviours and to store and maintain an archive of annotated cctv images. A prototype system will be built and tested. Other partners: Racal Research Ltd; Vigitec; Bull; INRIA; King's College London
Source HEI