



ISTITUTO ITALIANO
DI TECNOLOGIA

TITLE

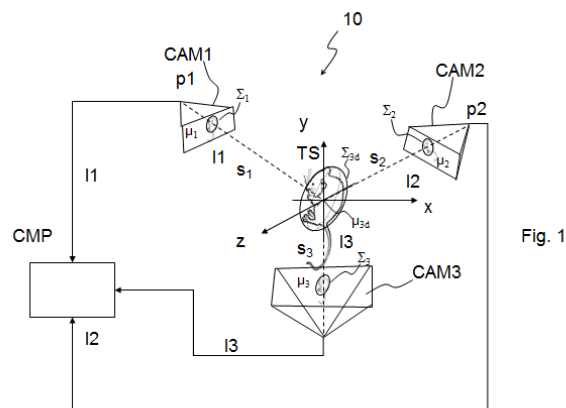
Procedimento per tracciare la sagoma e la posizione di soggetti di test quali animali da laboratorio in particolare topi per analisi comportamentale e relativo sistema

INVENTORS

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DESCRIPTION

The invention is a combination of hardware and software that is able to automatically track the 3D shape and position of a mouse for behavior analysis. In particular, the hardware setup is composed by a set of at least two or 3 video cameras, normal or infrared, that are able to capture temporal synchronized images of the mouse. By integrating the information extracted from the cameras, the 3D shape and position of the mouse is automatically estimated and then passed to a module that classifies the mouse behavior.



APPLICATIONS

Mouse behavior analysis

KEYWORDS

Ellipsoid, mouse, 3D analysis, behavior, position, videocameras

BIBLIOGRAPHIC DATA

Automatic 3D Mouse position and shape tracking for behavior analysis

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