TECHNO MARKET - By Ouest Valorisation

L'accompagnement sur-mesure de vos projets d'innovation

Notre mission :
Proposer aux entreprises des ressources d'innovation attractives issues de plus de 160 laboratoires et 7200 chercheurs.

Handwriting and symbol recognition software

The technology in question is a set of engines and development environments that enable the scalable recognition of handwritten symbols drawn on touch devices such as tablets, phones, table surfaces and touch screens. Based on first-order fuzzy Takagi-Sugeno inference systems, it allows real-time learning of any type of symbols with high efficiency, without the use of prior training lists. It requires the calibration of the user's graph. In general terms, this system enables a new way of designing a control interface between a user and a machine by replacing the classic menus inherent in the use of a keyboard and mouse with much more intuitive gesture controls on touch media.

The challenge of this technology lies in the design of an efficient and intuitive control interface between the user and the machine, using the recognition of handwritten symbols traced on touch devices. The aim is to develop engines and development environments capable of learning all types of symbols in real time, without using prior training lists, and taking into account the calibration of the user's graph.

The proposed solution is based on first-order fuzzy Takagi-Sugeno inference systems. This approach implements a control interface between the user and the machine by replacing traditional menus with more intuitive gesture controls on touch-based media. The technology makes it possible to learn all types of symbols in real time, without using prior learning lists, taking into account the calibration of the user's graph.

Nature de l'offre :

- Cost of implementation
- Multi-OS and multi-media (Windows, iOS, Android)
- Very high recognition rate
- Large number of possible applications

Domaines d'application :

- Tous domaines

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DV n°909 - RECOGNITION OF MANUSCRIPTED SYMBOLS AND WRITING