

# **INTELLIGENT TUTORING SYSTEM TO INTEGRATE PEOPLE WITH DOWN SYNDROME INTO WORK ENVIRONMENTS**

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## **Abstract**

*Nowadays, the integration of people with disabilities in the work environment, in our growing competitive market, is a problem. Current attempts to overcome it are based on the concurrent contribution of new and advanced technologies. At the moment, the number of available specific products and tools is limited. Moreover, this is worst in the area of assistances with understanding capability. Intelligent Tutoring Systems exhibits this capability. This kind of tutors is prepared to assist people who have problems in obtaining a wider autonomy and work integration. In this paper the TUTOR project is presented. The main aim of this project is to develop an Intelligent Tutoring System for people with disabilities. This tutor will integrate multimodal tools and human emotional feeling analysis to improve its usefulness. On the other hand, in order to assure the final product reliability in occupational frames, a set of essential ergonomic interfaces will be created. Furthermore, several basic clinical research activities will be carried out to validate those applications and to achieve the possibility of patenting them as medical products. This project emerges because of the lack of this kind of tools for people with disabilities which have been detected by GUREAK ARABA S.L. (GUREAK Group) company. It will be tackled by a multidisciplinary research team that will combine technology and health.*

## **Keywords**

Intelligent Tutoring System, Work Training, Mobile Tutoring, People with Special Needs, Down Syndrome