

Advanced Mouse Cursor Control and Speech Recognition Module

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Abstract : We constructed an interface system that would allow a similarly paralyzed user to interact with a computer with almost full functional capability. A real-time tracking algorithm is implemented based on adaptive skin detection and motion analysis. The clicking of the mouse is activated by the user's eye blinking through a sensor. The keyboard function is implemented by voice recognition kit.

Keywords : embedded ARM7 processor, mouse pointer control, voice recognition

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