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(57) Abstract :

The Artificial Intelligence Based Tongue Controlled Wheelchair for Paralyzed Patients (AITCW) helps the paralyzed patients to operate the wheelchair by themselves by touching the sensors in the sensor kit. The sensor kit contains 4 human object sensors (left, right, top and bottom). Left and right sensors rotates the wheelchair left and right directions when touching it. Top sensor accelerate and bottom sensor reduce the speed of the wheelchair. Patient tongue is used to touch the required sensor and the data is transferred to control unit. Then control unit which is connected to wheelchair operates the wheelchair accordingly. By using this AITCW paralyzed patients to operate the wheelchair by themselves without help of the other personal by touching the sensors in the sensor kit.

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