

BRAIN MAPPING FOR AN AUTHENTICATION METHOD BASED ON ELECTROENCEPHALOGRAPHIC SIGNALS

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Recent achievements in developing BCIs (Brain Computer Interfaces) led to the foreseen possibility of authentication to a computer by means of a "thought", in fact, another use of EEG signals. One of the options for developing such a system is the exploit of the P300 evoked potentials obtained as results of a Donchin paradigm. Their detection is possible by means of a modified adaptive optimal orthogonal algorithm and this allowed the mapping of regions most suitable for signal recording.