International Journal of

Cognitive Biometrics

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INDERSCIENCE
PUBLISHERS
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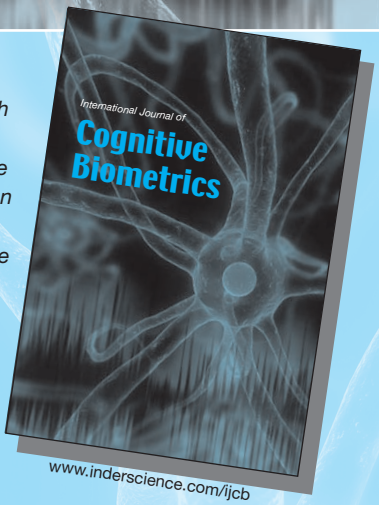
Scope of the Journal

ISSN: 2042-6461 (Print), ISSN: 2042-647X (Online)

Cognitive biometrics acquires information from users through collection of one or more biosignals. This relies on the presentation of one or more external or imagined stimuli. The subsequent response(s) are acquired and used for verification and authentication. IJCB addresses all aspects of cognitive biometrics, which aims to extract a unique signature from the user based on the cognitive, affective and conative state of the individual, either alone or more typically in various multi-modal combinations involving conventional and soft biometrics.



Topics covered include:

- Biosignal recognition deployment for EEG, ECG, EOG, EMG, PPG, etc.
- Event-related audio-visual stimuli design and resulting response component extraction for person ID
- Virtual reality deployment as a means of stimulus presentation
- Subliminal stimulus presentation utilisation in user authentication schemas
- Signal processing (linear and nonlinear) for time-invariant biometric feature extraction
- Novel machine learning algorithms for user-dependent/independent classification
- Genetic basis of biosignals and heritability
- Cognitive neuroscience deployment for biometric authentication purposes
- Multimodal approaches involving biosignals
  - conventional: fingerprints, palm prints, retinal scan, iris recognition, voice recognition, keystroke patterns, etc.
  - soft biometrics: odour scent, skin colour, eye colour, etc.
  - token based methods: personal ID number, passwords, etc.
- Related algorithms, enrolment procedures, systems/devices, security, applications, standardisation for user verification and authentication

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