

**Development of Evaluation Method of Psycho-physiological State Based
on CEM of Uttered Voice**

Mitsugu SAWA Ayako SUZUKI Kakuichi SHIOMI
Yoshimi FURUKAWA Seizo TAKAHASHI Tetsuji SUGIYAMA

Regarding safety and stability of railway transport, it is an important basis that train drivers can always work in the best psycho-physiological state. This study aims at developing evaluation method of psycho-physiological state for drivers based on “Cerebral Exponent Macro” (CEM) of uttered voice. It has been reported that the CEM is effective as an index value to evaluate workers’ psycho-physiological state so far. However, there have been very few reports on the variation factor of the CEM value. This paper describes the experimental results with the variation factor of the CEM value.