

The working model of human mind: The exotica of mirror neurone system

Bhoopendra Patel

All India Institute of Medical Sciences, India

The Human Mind, functional aspect of Human Brain, has been envisaged to be working on the tenets of Chaos, a seeming order within a disorder, the premise of Universe. The armamentarium of Human Mind makes use of distributed neuronal networks sub-serving Sensorial Mechanisms, Mirror Neurone System (MNS) and Motor Mechanisms etching a stochastic trajectory on the virtual phase-space of Human Mind, obeying the ethos of Chaos. The informational sensorial mechanisms recruit attentional mechanisms channelising through the window of chaotic neural dynamics onto MNS that providing algorithmic image information flow along virtual phase- space coordinates concluding onto motor mechanisms that generates and mirrors a stimulus- specific and stimulus-adequate response. The singularity of self-iterating fractal architectonics of Event-Related Synchrony (ERS), a Power Spectral Density (PSD) precept of electroencephalographic (EEG) time-series denotes preferential and categorical inhibition gateway and an Event-Related Desynchrony (ERD) represents event related and locked gateway to stimulatory/excitatory neuronal architectonics leading to stimulus-locked and adequate neural response. The contextual inference in relation to stochastic phase-space trajectory of self- iterating fractal of Off-Center ERS (Central)-On-Surround ERD-On Surround ERS document efficient neural dynamics of working memory., across patterned modulation and flow of the neurally coded information.

Key Words: Human Mind, Chaos, Stochastic Trajectory, Mirror Neurone System, Electroencephalograph (EEG), Event-Related Synchrony (ERS), Event-Related Desynchrony (ERD).

Biography

Bhoopendra Patel currently working as an Assistant Professor in the Department of Physiology at All India Institute of Medical Sciences (AIIMS), Bilaspur (H.P.). He delivered lectures as guest faculty for Cognitive Neuroscience (B.Tech. /M.Tech.) from 2018 to 2019 at Centre for Converging Technologies, University of Rajasthan, Jaipur (Rajasthan).

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