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A Mathematical Model to Mimic the Shape of Event Related
Desynchronization/Synchronization

Golnaz Baghdadi , Farzad Towhidkhah , Reza Rostami

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Highlights

- The proposed mathematical model can produce the pattern of ERD and ERS.
- The proposed model has been designed based on the forced synchronization concepts.
- Simulation results show the effect of some factors on ERD and ERS latency and amplitude.
- In the proposed model, an oscillatory activity with specific frequency increases after the onset of a stimulus.
- Some suggestions about reasons behind the effect of some parameters have been provided.

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