

## Special Issue on Present and Future of Cognitive Stimulation in Neurodegenerative Diseases

# CALL FOR PAPERS

Neurodegenerative diseases (such as Alzheimer's disease, Parkinson's disease, Amyotrophic Lateral Sclerosis, and Multiple Sclerosis) constitute a global emergency, due to their extremely high incidence, prevalence, and known decrease in life expectancy and quality. The clinical profiles of patients affected by neurodegenerative diseases are frequently characterized by a range of cognitive impairments relating to memory, language, attention, processing speed, and executive functions.

Cognitive impairments have a tremendous impact on patients' condition and are strongly associated with a poorer quality of life in both patients and caregivers. Thus, cognitive stimulation strategies are now recognized as a crucial aspect of the treatment of neurodegenerative diseases. In recent years, modern technologies have become increasingly important for developing strong cognitive stimulation strategies to prolong a patient's high quality of life, with promising preliminary results. Besides, new technologies have started to effectively assist cognitively impaired patients.

This special issue aims to attract empirical articles investigating the cognitive stimulation of patients affected by neurodegenerative diseases, especially when using novel technology such as computerized cognitive training and Virtual Reality tools as, well as an effective coupling between cognitive stimulation and neuroimaging, electrophysiology, and optical imaging techniques. Studies investigating cognitive stimulation effects over long period of time are strongly encouraged. Review articles on the current state of the art of technological applications to the treatment and management of neurodegenerative diseases are also welcome.

Potential topics include but are not limited to the following:

- ▶ Computerized cognitive stimulation studies in Alzheimer's disease or other dementias
- ▶ Neuroimaging, electrophysiology, and optical imaging studies of cognitive stimulation in forms of dementia, Parkinson's disease, or other neurodegenerative conditions
- ▶ Cognitive stimulation studies in multiple sclerosis
- ▶ Empirical studies using Virtual Reality technologies for cognitive stimulation purposes of neurodegenerative patients
- ▶ Empirical studies using novel technologies to assist cognitively impaired patients affected by amyotrophic lateral sclerosis
- ▶ Long-term comparative studies on the differences in quality of various cognitive stimulation techniques for patients with neurodegenerative disorders

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/bn/pfcsn/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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