Meetings International
SciTechnol

Dong Hyeon Kim, J Spine Neurosurg 2018, Volume:7
DOI: 10.4172/2325-9701-C6-026

World Summit on
CLIMATE CHANGE & GLOBAL WARMING
&
International Conference on
BRAIN STIMULATION

November 26-27, 2018 | Tokyo, Japan

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Crossing the bridge from research to clinical: Possibility to use deep neural network for the individual brain modellings

The individualized stimulation parameter selection is important to treat neurological disease or enhance brain function functionality. For this, simulation study using individual brain model is essential to search optimal stimulation parameter in each patient. However, it is computationally expensive and takes too long time to use it in clinical situation. Among the procedures of individual brain modeling, segmentation of MRI image is the most important part and takes a lot of time. In this talk, we will show deep neural network to segment MRI image and its practical feasibility.

Biography

Dong Hyeon Kim completed his electronic engineering from Korea University of Technology and Education, Cheon-an, South Korea. He completed his PhD from School of Information and Communications, Gwangju Institute of Science and Technology (GIST), South Korea. He completed his Post Doctors degree from Biocomputing Lab, Gwangju Institute of Science and Technology (GIST), South Korea. Now he is the Co-founder & Chief Technology Officer NEUROPHET Inc., Seoul, South Korea.

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