## Accepted Manuscript

Title: Computing stimulation voltage in a bipolar electrode configuration to avoid side effects during deep brain stimulation

Author: Wei-Yi Chuang Paul C.-P. Chao Shin-Yuan Chen Sheng-Tzung Tsai Kuu-Young Young Ta-Wei Ting

PII: S0924-4247(15)30038-8

DOI: http://dx.doi.org/doi:10.1016/j.sna.2015.06.016

Reference: SNA 9216

To appear in: Sensors and Actuators A

Received date: 23-5-2014 Revised date: 22-4-2015 Accepted date: 17-6-2015

Please cite this article as: Wei-Yi Chuang, Paul C.-P.Chao, Shin-Yuan Chen, Sheng-Tzung Tsai, Kuu-Young Young, Ta-Wei Ting, Computing stimulation voltage in a bipolar electrode configuration to avoid side effects during deep brain stimulation, Sensors and Actuators: A Physical http://dx.doi.org/10.1016/j.sna.2015.06.016

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## ACCEPTED MANUSCRIPT

Title: Computing Stimulation Voltage in a Bipolar Electrode Configuration to Avoid Side Effects during Deep Brain Stimulation

Author list: Wei-Yi Chuang<sup>1</sup>, Paul C.-P. Chao<sup>1\*</sup>, Shin-Yuan Chen<sup>2,3</sup>, Sheng-Tzung Tsai<sup>2,3</sup>, Kuu-Young Young<sup>1</sup> and Ta-Wei Ting<sup>4</sup>

Affiliation of authors:

<sup>1</sup>Department of Electrical Engineering, National Chiao-Tung University, Hsinchu, Taiwan

 $^2\mathrm{Department}$  of Neurosurgery, Buddhist Tzu Chi General Hospital, Hualien, Taiwan

<sup>3</sup>Department of Medicine, Tzu Chi University, Hualien, Taiwan

<sup>4</sup>Department of Biomedical Engineering, Yuanpei University, Hsinchu, Taiwan

\*Corresponding author: Paul C.-P. Chao

Tel: +886-3-5131377

Fax: +886-3-5752469

E-mail: pchao@mail.nctu.edu.tw

Postal address: Room No. 735, Engineering Building No. 5, 1001 University Rd.,

Highlights ▶

Hsinchu City, 300, Taiwan.

Highlights

## Download English Version:

## https://daneshyari.com/en/article/7135687

Download Persian Version:

https://daneshyari.com/article/7135687

<u>Daneshyari.com</u>