



## [WeE1] Wearable Device Networks and Medical Applications

<b>Date / Time</b>	Oct. 24 (Wed.), 2018 / 13:00-15:00
<b>Place</b>	Room E (Venice Room)
<b>Session Chairs</b>	Qiang Chen (Tohoku University, Japan) Ick-Jae Yoon (Chungnam National University, Korea)

### WeE1-1

13:00-13:20

#### Design of Inner-Layer Capsule Dipole Antenna For Ingestible Endoscope

Hiroyasu Sato<sup>1</sup>, Yang Li<sup>2</sup>, Junyi Xu<sup>1</sup>, and Qiang Chen<sup>1</sup>

<sup>1</sup>Tohoku University, Japan, <sup>2</sup>Tianjin Normal University, China

### WeE1-2

13:20-13:40

#### Analytic Study on the Small Antennas Coupling for Wireless Biotelemetry

Geonyeong Shin and Ick-Jae Yoon

Chungnam National University, Korea

### WeE1-3

13:40-14:00

#### Real-Time 2D Microwave Differential Imaging for Temperature Monitoring

Kwang-Jae Lee<sup>1</sup>, Jang-Yeol Kim<sup>1</sup>, Bo-Ra Kim<sup>1</sup>, Soon-Ik Jeon<sup>1</sup>, Nam Kim<sup>2</sup>, and Seong-Ho Son<sup>1</sup>

<sup>1</sup>ETRI, Korea, <sup>2</sup>Chungbuk National University, Korea

### WeE1-4

14:00-14:20

#### Analysis of High Frequency Curved Plate Applicator for Deep Hyperthermia in Breast Cancer Treatment by Using Dielectric Heating

Supawat Kotchapradit, Thanaset Thosdeekoraphat, Samran Santalunai, and Chanchai Thongsopa

Suranaree University of Technology, Thailand

### WeE1-5

14:20-14:40

#### Numerical Simulation and Experimental Validation on Focused Microwave Thermotherapy

Jang-Yeol Kim, Kwang-Jae Lee, Soon-Ik Jeon, Bo-Ra Kim, and Seong-Ho Son

ETRI, Korea

### WeE1-6

14:40-15:00

#### Investigation on Dielectric and Thermal Properties of Phantom for Focused Microwave Thermotherapy

Bo-Ra Kim, Kwang-Jae Lee, Jang-Yeol Kim, Soon-Ik Jeon, and Seong-Ho Son

ETRI, Korea