

Session Title	Indoor Network	Session Code	5A1
Date and Time	July 5 (Thu.) / 08:30-10:00 (90')		
Place	Room A		
Session Chair	TBA		

## 5A1-1 (Invited)

08:30-09:00 (30')

### Experimental Demonstrations of RoF Technologies for 5G Indoor DAS Applications

Seung-Hyun Cho, Hwan Seok Chung, Joonyoung Kim, Minkyu Sung, Joon ki Lee, and Jong Hyun Lee  
ETRI, Korea

## 5A1-2

09:00-09:15 (15')

### Demonstration of Indoor Optical Wireless Communications with Spatial Diversity using Repetition-Coding and Space-Time-Block-Coding

Tingting Song<sup>1</sup>, Ke Wang<sup>2</sup>, Ampalavanapillai Nirmalathas<sup>1</sup>, Christina Lim<sup>1</sup>, Elaine Wong<sup>1</sup>, and Kamal Alameh<sup>3</sup>

<sup>1</sup>The Univ. of Melbourne, Australia, <sup>2</sup>RMIT Univ., Australia, <sup>3</sup>Edith Cowan Univ., Australia

## 5A1-3

09:15-09:30 (15')

### 3D Indoor Visible Light Positioning System using RSS Ratio with Neural Network

Sheng Zhang, Pengfei Du, Chen Chen, and Wen-De Zhong  
Nanyang Technological Univ., Singapore

## 5A1-4

09:30-09:45 (15')

### Receiving Area Enlargement using Expanded Laser Beam for Indoor Optical Wireless Communication

Kai-Min Wang<sup>1</sup>, Yi-Lin Yu<sup>1</sup>, Huai-Ching Wang<sup>1</sup>, Shien-Kuei Liaw<sup>1</sup>, Hiroki Kishikawa<sup>2</sup>, and Nobuo Goto<sup>2</sup>

<sup>1</sup>Taiwan Tech, Taiwan, <sup>2</sup>Tokushima Univ., Japan

## 5A1-5

09:45-10:00 (15')

### Dimmable Optical OFDM based on Discrete Hartley Transform for Indoor Visible Light Illumination and Communication

M. Che, T. Kuboki, and K. Kato  
Kyushu Univ., Japan