



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Student Paper Award

to

Felisberto Pereira, Ricardo Correia, Marina Jordão, Nuno Borges

for the paper titled

“A Hybrid System Combining SWIPT and Backscatter Techniques”

**Seoul, Korea
November 17, 2020**

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Student Paper Award

to

Keiichiro Tokita, Hiroshi Fujimoto, Yoichi Hori

for the paper titled

**“Feedforward Transient Control Under Varying Coupling Condition for In-motion
Wireless Power Transfer Using Envelope Model”**

Seoul, Korea
November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Student Paper Award

to

Seon Jae Jeon, Dong Wook Seo

for the paper titled

“Design Method of Three-Coil WPT System to Adjust Resonant Capacitances”

Seoul, Korea

November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Student Paper Award

to

**Haerim Kim, Jongwook Kim, Yujun Shin, Jangyong Ahn, Dongwook Kim,
Jaehyoung Park, Bumjin Park, Sungryul Huh, Seungyoung Ahn**

for the paper titled

**“Mitigation of Frequency Splitting Phenomena Using a Matching Capacitor in Wireless
Power Transfer System for Automated Guided Vehicle”**

**Seoul, Korea
November 17, 2020**

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Student Paper Award

to

Seishiro Kojima, Naoki Shinohara

for the paper titled

“A 5.8 GHz Reconfigurable in-Phase Power Divider for Microwave Power Transmission”

Seoul, Korea
November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Student Paper Award

to

Kim Ngan Thi Nguyen, Nam Ha-Van, Minh Thuy Le, Chulhun Seo

for the paper titled

“A Novel Optimal Transmitting Source for Midfield Wireless Powering of Micro-implant”

Seoul, Korea
November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Poster Paper Award

to

Junjian Huang, Yubin Zhao, Faying He, Xiaofan Li

for the paper titled

“RBF Modeling for Magnetic MIMO WPT: Detection, Estimation and Prediction”

Seoul, Korea
November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Paper Award

to

Eun Jung Kang, Chul Hun Seo, Ho Sung Choo

for the paper titled

**“High Gain Array Antenna Using the Higher-order Mode for Wireless Power Transfer
Application”**

**Seoul, Korea
November 17, 2020**

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Paper Award

to

Fralett Suárez Sandoval, Saraí Torres Delgado, Ulrike Wallrabe

for the paper titled

“An Adaptable Charging Surface Provides Efficient and Location-Independent Wireless Power”

**Seoul, Korea
November 17, 2020**

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Best Paper Award

to

Han Joon Kim, Rongzhou Lin, Sippanat Achavananthadith, John Ho

for the paper titled

“Near-field-enabled Clothing for Wearable Wireless Power Transfer”

**Seoul, Korea
November 17, 2020**

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer

Best Paper Award

to

Reebal Majed Nimri, Abhilash Kamineni, Regan Zane

for the paper titled

“A Modular Pad Design Compatible with SAE J2954 for Dynamic Inductive Power Transfer”

**Seoul, Korea
November 17, 2020**

Byunghun Lee
General Chair

Jeehoon Jung
General Co-Chair



2020 IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer

Best Paper Award

to

Hokyeong Kim, Younghoon Cho

for the paper titled

“Switched Mode Power Supply with High Isolation for High Voltage Applications”

**Seoul, Korea
November 17, 2020**

Byunghun Lee
General Chair

Jeehoon Jung
General Co-Chair



2020 IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer

Best Paper Award

to

Daniel E. Gaona, Teng Long

for the paper titled

“Design Considerations for High-power-density IPT Pads with Nanocrystalline Cores”

**Seoul, Korea
November 17, 2020**

Byunghun Lee
General Chair

Jeehoon Jung
General Co-Chair



2020 IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer

Best Paper Award

to

Zhimeng Liu, Lifang Wang, Yanjie Guo, Chengxuan Tao

for the paper titled

“Eddy Current Loss Analysis of Wireless Power Transfer System for Autonomous Underwater Vehicles”

**Seoul, Korea
November 17, 2020**

Byunghun Lee
General Chair

Jeehoon Jung
General Co-Chair



2020 IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer

Best Paper Award

to

Ryosuke Ota, Duleepa J Thrimawithana, Udaya Madawala, Grant Covic

for the paper titled

“Boundary of Soft-Switching for Efficient Operation of Bi-Directional IPT Systems”

**Seoul, Korea
November 17, 2020**

Byunghun Lee
General Chair

Jeehoon Jung
General Co-Chair



2020 IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer

Best Paper Award

to

Jaehong Lee, Seung-Hwan Lee, Myung-Yong Kim

for the paper titled

“A New Multilevel Inductive Power Transfer System”

Seoul, Korea

November 17, 2020

Byunghun Lee
General Chair

Jeehoon Jung
General Co-Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Student Competition Award Third Prize

to

**Bo-Ruei Ciou, Fei-Han Tsai, Shih-Jie Jhao, Ying-Jiun Chen, Yu-Chen Liu,
Katherine A. Kim**
for the project titled
“Wireless Power Charging System for an Electric Bike Application”

Seoul, Korea
November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Student Competition Award Third Prize

to

Chan Mi Song, Tae Yong Jeong, Jong Seon Lee, Dong Hwan Lee, Hyun Sang Lyu
for the project titled
“Dual-band RF Wireless Power Transfer System”

Seoul, Korea
November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Student Competition Award Third Prize

to

Hyungmo Koo, Sungjae Oh, Woojin Choi, Jaekyung Shin
for the project titled

“5.2 GHz microwave power transfer system based on retroreflective beamforming”

Seoul, Korea
November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Student Competition Award Third Prize

to

**Bumjin Park, Sungryul Huh, Andres Brito, Jaehyoung Park, Yujun Shin,
Jongwook Kim, Seongho Woo**

for the project titled

“A magnetic energy harvesting system with improved power density for drone wireless charging station near power line using saturable inductor”

Seoul, Korea
November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Student Competition – Third Prize

\$100

One Hundred US Dollars

November 17, 2020

Seoul, Korea





2020 IEEE MTT-S Wireless Power Transfer Conference

**Student Competition Award
Second Prize**

to

**Je Hyeon Park, Nguyen Minh Tran, Muhammad Miftahul Amri, Kae Won Choi
for the project titled**

**“Multi-Antenna based Long-Range Wireless Power Transfer System with Reconfigurable
Metasurface Reflector”**

**Seoul, Korea
November 17, 2020**

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

**Student Competition Award
Second Prize**

to

**Mingi Kim, In Gwun Jang
for the project titled**

**“Real-time Control of Multi-receiver Wireless Power Transfer Systems for Tuning the
Optimal Compensation Parameters under Time-varying Charging Configurations”**

**Seoul, Korea
November 17, 2020**

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Student Competition – Second Prize

\$200

Two Hundred US Dollars

November 17, 2020

Seoul, Korea





2020 IEEE MTT-S Wireless Power Transfer Conference

Student Competition Award First Prize

to

**Miho Kanemoto, Kosuke Yoshida, Fumiya Nishimura, Hisashi Nishikawa, Ami Tanaka,
Takakuni Douseki**
for the project titled

“Intermittent Wireless power Transmission System for Batteryless Wearable Accessories”

Seoul, Korea
November 17, 2020

Chulhun Seo
General Chair

Seungyoung Ahn
Program Chair

Young-Jin Park
Program Chair



2020 IEEE MTT-S Wireless Power Transfer Conference

Student Competition – First Prize

\$300

Three Hundred US Dollars

November 17, 2020

Seoul, Korea

