SeongHo Cho

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Education

Kyungpook National University Daegu, S.Korea
M.S. Student in Electronics Engineering 2019–Present
- Thesis: Intra Body Communication based on FSK including Error correction
- Advisor: Daejin Park
- Area of study: Embedded MCU, Communication system, Signal processing

Inha University Inchoen, S.Korea
B.S. in Electronics Engineering 1996–2003
- Area of study: Microprocessor, Communication systems

Interest

I am now with LG Display as senior researcher, developing plastic OLED display driver IC and touch device controller including F/W optimization for automotive display. I have worked on circuit design and performance optimize for capacitive type TFT-LCD in-cell touch from 2012 to 2018. My research interests include the robust circuit design and highly reliable and low power self diagnostic architecture for automotive display device for ASIL.

Experience

LG Display Co., Ltd. Gumi, S.Korea
Automotive Advanced Development Team Present
- Plastic OLED Circuit Design for Automotive Display
- Driver, Power IC Development and Performance optimize, validation

Automotive In Cell Touch Development Team (2017–2019)
- TFT-LCD In Cell Touch Design for Automotive Display
- Touch IC Development and Architecture design

Mobile In Cell Touch Development Team (2012–2016)
- TFT-LCD In Cell Touch Design for Mobilephone
- Touch IC Development and Performance optimize

Mobile Circuit Design Team (2003–2011)
- TFT-LCD Circuit Design for Mobilephone
- Driver IC development and Project management

Publications

[1]   S. C. Daejin Park, "Electrostatic Coupling Intra-Body Communication Based on Frequency Shift Keying and Error Correction for Asynchronous Clock-less IoT Applications", in *2020 BIC*, Aug. 2020.

[2]   S. C. Daejin Park, "Electrostatic Coupling Intra-Body Communication Based on FSK Communication and Error Correction", in *2020 IEMEK*, Aug. 2020.

[3]   S. C. Daejin Park, "Frequency Shift Keying and Error Correction Technique for Robust Electrostatic Coupling Intra-Body Communication", in *2020 IEEE GCCE*, Sep. 2020.

[4]   S. C. S CheonKee K Kim, "In-cell touch type liquid crystal display device and method for driving the same", in *2019 US Patent 10,429,967*, Oct. 2019.

[5]   S. C. KB Park G Kim, "Liquid crystal display of field sequential color type and method for driving the same", in *2011 US Patent 7,864,152*, Jan. 2011.

Skills

- **Programming:**   Embedded C, Python

Languages

- **Language:**   Korean, English