

PARK, SEONGHOON

Mobile Embedded Systems Lab., Department of Computer Science, Yonsei University
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RESEARCH INTERESTS

- Mobile web experiences
- Energy-aware mobile systems

TECHNICAL SKILLS

Language

- Korean (Native)
- English (Advanced)
 - TOEIC: 960/990, TEPS: 447/600

Programming Skills

- Programming languages
 - C, C++, Python, JavaScript, Java
 - A little experience with Haskell, Kotlin, and Rust
- Machine learning
 - TensorFlow, TensorFlow Lite, TensorFlow.js
- Web servers and applications
 - Node.js, Flask
 - Web extensions
- Android applications
- OS kernel (Android kernel, ChibiOS/RT microkernel)

EDUCATION

Yonsei University, Seoul, Republic of Korea

Mar. 2018 – Present

Ph.D. Student in Computer Science

Mobile Embedded Systems Lab., Supervised by Prof. Hojung Cha

(GPA 4.43 / 4.5)

Yonsei University, Seoul, Republic of Korea

Mar. 2014 – Feb. 2018

B.S in Computer Science

(GPA 3.95/4.5)

PUBLICATIONS (SCIE JOURNALS AND INTERNATIONAL CONFERENCES)

1. **S. Park**, J. Lee, H. Cha, "Crow API: Cross-device I/O Sharing in Web Applications," IEEE INFOCOM 2023 - IEEE Conference on Computer Communications (INFOCOM 2023), New York, USA, May 17-20, 2023.
2. Y. Choi, **S. Park**, S. Jeon, R. Ha, H. Cha, "Optimizing Energy Consumption of Mobile Games," IEEE Transactions on Mobile Computing (TMC), Vol. 21, Issue 10, Oct. 2022, pp 3744-3756.
3. **S. Park**, Y. Choi, H. Cha, "WebMythBusters: An In-depth Study of Mobile Web Experience," IEEE INFOCOM 2021 - IEEE Conference on Computer Communications (INFOCOM 2021), Virtual Conference, May. 10-13, 2021.
4. J. Park, **S. Park**, H. Cha, "GAZEL: Runtime Gaze Tracking for Smartphones," The 19th International Conference on Pervasive Computing and Communications (PerCom 2021), Virtual Conference, Mar. 22-26, 2021.
5. Y. Choi, **S. Park**, H. Cha, "Optimizing Energy Efficiency of Browsers in Energy-Aware Scheduling-enabled Mobile Devices," The 25th Annual International Conference on Mobile Computing and Networking (MobiCom 2019), Los Cabos, Mexico, Oct. 21-25, 2019.
6. Y. Choi, **S. Park**, H. Cha, "Graphics-aware Power Governing for Mobile Devices," The 17th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2019), Seoul, South Korea, June 17-21, 2019.

DOMESTIC CONFERENCES

1. **S. Park**, "WebMythBusters: An In-depth Study of Mobile Web Experience," Top Conference Session at Korea Software Congress 2021 (KSC2021), Dec. 20-22, 2021.

RESEARCH PROJECT EXPERIENCES

Development of High-Assurance (\geq EAL6) Secure Microkernel Apr. 2018 ~ Current
Institute for Information & communications Technology Promotion (IITP), Ministry of Science and ICT, Republic of Korea
No. 2018-0-00532

Development of Energy Management Techniques for Batteryless IoT System Mar. 2019 ~ Feb. 2022
National Research Foundation of Korea (NRF), Ministry of Science and ICT, Republic of Korea
No. NRF-2017M3C4A7083677

Highly Flexible Device Profiling and Analysis System for Web Experiences Measurement Nov. 2017 ~ Dec. 2020
National Research Foundation of Korea (NRF), Ministry of Science and ICT, Republic of Korea
No. NRF-2017M3C4A7083677

가용시간 30% 향상을 위한 모바일 기기 전력관리 시스템 소프트웨어 Jan. 2017 ~ Aug. 2018
Samsung Science & Technology Foundation, Samsung Electronics

TEACHING EXPERIENCES

Teaching Assistant at Department of Computer Science, Yonsei University <i>System Programming (CSI3107)</i>	Fall semester, 2020
Teaching Assistant at Department of Computer Science, Yonsei University <i>Operating Systems (CSI3101)</i>	Spring semester, 2020
Teaching Assistant at Department of Computer Science, Yonsei University <i>System Programming (CSI3107)</i>	Fall semester, 2019
Teaching Assistant at Department of Computer Science, Yonsei University <i>Operating Systems (CSI3101)</i>	Spring semester, 2019
Teaching Assistant at Department of Computer Science, Yonsei University <i>System Programming (CSI3107)</i>	Fall semester, 2018
Teaching Assistant at Department of Computer Science, Yonsei University <i>Operating Systems (CSI3101)</i>	Spring semester, 2018

AWARDS AND HONORS

Honors , Department of Computer Science, Yonsei University	Fall semester, 2017
Excellence Prize , Department of Computer Science, Yonsei University <i>Software Capstone Design</i>	Spring semester, 2017
Honors , Department of Computer Science, Yonsei University	Spring semester, 2017
Honors , Department of Computer Science, Yonsei University	Fall semester, 2014
Honors , Department of Computer Science, Yonsei University	Spring semester, 2014