

Name:

Joon-Young Paik

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1. Biography

Joon-Young Paik is currently working for the School of Computer Science and Technology, Tianjin Polytechnic University, as an associate professor. He received BS, MS and PhD degrees from Department of Computer Science and Engineering, Chungnam National University, Republic of Korea, in 2008, 2010 and 2013, respectively. Before he join Tianjin Polytechnic University in 2018, he worked for Ajou University, Republic of Korea, as an assistant research professor.

2. Research direction and academic achievementsResearch direction:

Malware detection, Deep learning, Secure storage devices

Academic achievements:

Joon-Young Paik has published more than 30 research publications. He is a member of Program Committee of COMPSAC 2018 and 2019, and a reviewer for academic journals and conferences, such as IEEE Transactions on Computers, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, IEEE ACCESS, Simulation Modelling Practice and Theory, and IEEE COMPSAC.

3. Teaching and achievementsCourse teaching:

Operating System, Programming Language

4. Representative paper

[1] **Joon-Young Paik**, Eun-Sun Cho, Tae-Sun Chung: "Dynamic Allocation Mechanism to Reduce Read Latency in Collaboration with a Device Queue in Multichannel Solid-State Devices," IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (SCI, A-tier ranked by CCF), 2017

[2] **Joon-Young Paik**, Eun-Sun Cho, Rize Jin, Tae-Sun Chung: "Selective-Delay Garbage Collection Mechanism for Read Operations in Multichannel Flash-Based Storage Devices," IEEE Transactions on Consumer Electronics (SCI), 2018

[3] **Joon-Young Paik**, Rize Jin, Tae-Sun Chung: "Data Recovery Aware Garbage Collection Mechanism in Flash-Based Storage Devices," IEICE Transactions on Information & Systems (SCIE), 2018

[4] Ronnie Mativenga, **Joon-Young Paik**, Youngjae Kim, Junghee Lee, Tae-Sun Chung: "RFTL: improving performance of selective caching-based page-level FTL through replication," Cluster Computing (SCIE), 2018

[5] Usman Anwar, **Joon-Young Paik**, Rize Jin, Tae-Sun Chung: "Log-buffer aware cache replacement policy for flash storage devices," IEEE Transactions on Consumer Electronics (SCI), 2017

[6] Xiaohan Ma, Rize Jin, Kyung-Ah Sohn, **Joon-Young Paik**, Jing Sun, Tae-Sun Chung: "Improving Generative Adversarial Networks with Adaptive Control Learning," IEEE International Conference on Visual Communications and Image Processing, 2018