Young-Duk Seo

Assistant Professor
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Research Interests

I work on data mining, IoT, and software engineering

- ▪ Recommender systems

- ▪ IoT-based data analytics

- ▪ Text mining

Education

2012.03 ~ 2018.02, Ph.D. in Computer Science & Engineering, Korea University
2008.03 ~ 2012.02, B.S. in Computer & Communication Engineering, Korea University
2004.03 ~ 2007.02, Goyang Foreign Language High School

Experience

2020.09 ~ Assistant Professor, Inha University
2019.03 ~ 2020.08, Assistant Professor, Sejong University
2018.09 ~ 2019.02, Post-Doc, Sejong University
2018.03 ~ 2018.08, Research professor, Korea University

Publication

[1]. Euijong Lee, **Young-Duk Seo***, Young-Gab Kim, *A Cache-based Model Abstraction and Runtime Verification for the Internet of Things Applications*, IEEE Internet of Things Journal, 2020

[2]. **Young-Duk Seo***, Euijong Lee, Young-Gab Kim, *Video on demand recommender system for internet protocol television service based on explicit information fusion*, Expert Systems with Applications. 143, 2020.

[3]. Euijong Lee, **Young-Duk Seo***, Young-Gab Kim, *Self-Adaptive Framework Based on MAPE Loop for Internet of Things*, Sensors. 19(13), 2019.

[4]. Euijong Lee, **Young-Duk Seo***, Young-Gab Kim, *A Nash equilibrium based decision-making method for internet of things*, Journal of Ambient Intelligence and Humanized Computing (JAIHC), 2019.

[5]. Euijong Lee, Young-Gab Kim, **Young-Duk Seo***, Doo-Kwon Baik, *Self-Adaptive Framework with Game Theoretic Decision Making for Internet of Things*, **TENCON 2018**: International technical conference of IEEE Region 10.

[6]. **Young-Duk Seo***, Young-Gab Kim, Euijong Lee, Kwang-Soo Seol, Doo-Kwon Baik, *An enhanced aggregation method considering deviations for a group recommendation*, **Expert Systems with Applications**. 93, 2018.

[7]. **Young-Duk Seo***, Young-Gab Kim, Euijong Lee, Kwang-Soo Seol, Doo-Kwon Baik, *Design of a smart greenhouse system based on MAPE-K and ISO/IEC-11179*, **ICCE 2018**: IEEE International Conference on Consumer Electronics.

[8]. Hyunjin Choi, Jangwon Gim, **Young-Duk Seo***, Doo-Kwon Baik, *VPL-Based Big Data Analysis System: UDAS*, **IEEE Access**. 6, 2018.

[9]. Kwangsoo Seol, Young-Gab Kim, Euijong Lee, **Young-Duk Seo***, Doo-Kwon Baik, *Privacy-preserving attribute-based access control model for XML-based electronic health record system*, **IEEE Access**. 6, 2018.

[10]. Euijong Lee, Young-Gab Kim, **Young-Duk Seo***, Kwangsoo Seol, Doo-Kwon Baik, *RINGA: Design and verification of finite state machine for self-adaptive software at runtime*, **Information and Software Technology**. 93, 2018.

[11]. Euijong Lee, Young-Gab Kim, **Young-Duk Seo***, Kwangsoo Seol, Doo-Kwon Baik, *An Evaluation Method for Content Analysis Based on Twitter Content Influence*, **IJSEKE**: International Journal of Software Engineering and Knowledge Engineering. 27(5), 2017.

[12]. Euijong Lee, Young-Gab Kim, **Young-Duk Seo***, Kwangsoo Seol, Doo-Kwon Baik, *Runtime verification method for self-adaptive software using reachability of transition system model*, **SAC 2017**: Proceedings of the Symposium on Applied Computing.

[13]. **Young-Duk Seo***, Young-Gab Kim, Euijong Lee, Doo-Kwon Baik, *Personalized recommender system based on friendship strength in social network services*, **Expert Systems with Applications**. 69, 2017.

Courses

2020 Spring, Web Programming, Sejong University
2019 Fall, Data Analysis and Practice I, Sejong University
2019 Spring, Web Programming, Sejong University
2018 Spring, Web Programming, Sungshin Women's University
2018 Spring, Data Structure, Korea University