



Yochan Kim

PSAM12 Speaker Bio

Comparison of Task Loads between Usages of Computer-based Procedures in an Advanced Control Room

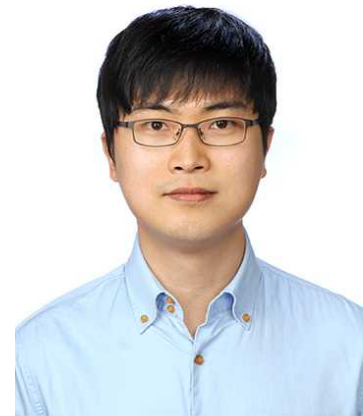
Short Statement: Dr. Kim is the first author and presenter of this paper. He received the Ph.D. degree in industrial and systems engineering from the Korea Advanced Institute of Science and Technology in 2011. He is currently a Senior Researcher with the Integrated Safety Assessment Division, Korea Atomic Energy Research Institute. His current research interests relate to human-reliability analysis; e.g., developing variables explaining human behaviors and measuring the behaviors based on the variables.

BIOGRAPHY

Yochan Kim received the B.S. degree in industrial engineering from the Ajou University, Gyeonggi-do, Korea, in 2003, and the Ph.D. degree in industrial and systems engineering from the Korea Advanced Institute of Science and Technology, Daejeon, Korea, in 2011.

He is currently a Senior Researcher with the Integrated Safety Assessment Division, Korea Atomic Energy Research Institute, Daejeon. His current research interests include human-reliability analysis, cognitive systems engineering, human-computer interaction, and human-robot interaction.

As shown in the following recent articles, he is developing several variables that objectively explain human performance or reliability and analyzing operator's behaviors using the developed variables.



- Yochan Kim, "Analyzing Procedural Behaviors of Human-Machine Systems using Sequence Alignment Techniques", *the Japanese Journal of Ergonomics*, 49, pp. 451-454, 2013. (available on <https://docs.google.com/file/d/0BzPYloAxIjI4RzJ3MIQ4RS01blk/edit?usp=sharing>)
- Yochan Kim, Jinkyun Park, Wondea Jung, "Relation between task complexity and variability of procedure progression during an emergency operation", *Annals of nuclear energy*, 59, pp. 230-236, 2013.
- Yochan Kim, Jinkyun Park, Wondea Jung, "Measuring variability of procedure progression in proceduralized scenarios", *Annals of nuclear energy*, 49, pp. 41-47, 2012.
- Yochan Kim, Jaehwan Kim, Seungcheol Jang, Wondea Jung, "Empirical Investigation of Communication Characteristics under a Computer-based Procedure in an Advanced Control Room", *Journal of nuclear science and technology*, 2012.