

The 34th International Technical Conference on
Circuits / Systems, Computers and Communications

ITC-CSCC 2019

June 23 (Sun) ▶ **June 26** (Wed), 2019

Jeju Shinhwa World, Republic of Korea



Plenary Talk 1

10:50~11:35

Monday, June 24, 2019

Room: **LANDING BALLROOM A+B**

Prof. Shingo Yamaguchi
Yamaguchi University, Japan

**Petri Net-Based Approach to Business Process Management****Abstract**

Today's business system supports not only individual tasks but also needs to support business processes within and between organizations. This talk deals with Petri net-based approach to business process management. Petri net has become one of the standard ways to design and analyze business processes. In the beginning, the outline of business process management will be presented together with its history, system architecture, and benefits. Next, the Petri net-based approach to business process management will be expounded. Business process management is classified into three phases: Design, Enactment, and Kaizen. In each phase, the state-of-the-art will be illustrated with application examples. In particular, the Kaizen phase (also known as the improvement phase) will be focused, and the related topics such as soundization, refactoring, supervisory control, and dynamic change will be discussed in detail. Finally, future perspectives in business process management will be discussed.

Biography

Shingo Yamaguchi received B.E., M.E. and D.E. degrees from Yamaguchi University, Japan, in 1992, 1994 and 2002. He was a Visiting Scholar in University of Illinois at Chicago, United States, in 2007. He is currently a Professor in Graduate School of Sciences and Technology for Innovation, Yamaguchi University, Japan. His research interests are in the area of net theory and its applications in-

cluding service science, IoT, big data analysis, and cyber security. He is a recipient of the 21st IEEE International Symposium on Consumer Electronics Best Paper Award, the 30th International Technical Conference on Circuits/Systems, Computers and Communications Best Paper Award, and so on. He is a Senior Member of IEEE and IEICE. He is also an elected member of Board of Governors of IEEE Consumer Electronics Society.

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