Knowledge Science – Modeling the Knowledge Creation Process

Yoshiteru Nakamori

School of Knowledge Science
Japan Advanced Institute of Science and Technology
1-1 Asahidai, Nomi, Ishikawa 923-1292, Japan
nakamori@jaist.ac.jp

Extended Abstract

Knowledge science is a problem-oriented interdisciplinary field that takes as its subject the modeling of the knowledge creation process and its application, and carries out research in such disciplines as knowledge management, management of technology, support for the discovery, synthesis and creation of knowledge, and innovation theory with the aim of constructing a better knowledge-based society. This presentation considers what knowledge science should be, introducing a forthcoming book entitled “Knowledge Science - Modeling the Knowledge Creation Process” (Nakamori [1]) as well as the School of Knowledge Science at Japan Advanced Institute of Science and Technology, which is the first school established in the world to make knowledge a target of science. The first dean of the School was Professor Ikujiro Nonaka who is famous worldwide for his organizational knowledge creation model called the SECI spiral (Nonaka and Takeuchi [3]), which is in fact the key factor in establishing the School. The presentation also briefly introduces a methodology for knowledge synthesis called the theory of knowledge construction systems; its fundamental part was already published in *Systems Research and Behavioral Science* (Nakamori et al. [2]).

Keywords: Knowledge technology, Knowledge management, Knowledge discovery, Knowledge synthesis, Knowledge justification, Knowledge construction.

References

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