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How a digital knowledge engineering learning process can enhance technical skills in software engineering (Article)

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Abstract

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Digital knowledge engineering is a collection of knowledge management processes and methods provided by experts. These processes and methods lead to best practices regarding problem-solving, as well as simultaneous learning and the use of information and communication technology for knowledge management. The objectives of this study were: 1) to study the digital knowledge engineering learning process and technical skills in software engineering; and 2) to evaluate the learning process by the synthesis of derived information (content analysis) provided by five experts. The research findings suggested that a digital knowledge engineering learning process consists of six parts: 1) knowledge creation; 2) knowledge storage; 3) knowledge acquisition; 4) knowledge access; 5) knowledge sharing; and 6) knowledge application. With respect to the evaluation of the learning process, the overall result was the highest value, which indicates that this research can be now applied to learning management. © 2018 WIETE.

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