

Comparative Study on Multidimensional Developers Performance with Cognitive Load

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Abstract

Human resource is the challenging resource in the software development industry to meet the customer requirement and deliver the project on time to the client. The resource management techniques are used to optimize the resources with a homogeneous property. The multi-disciplinary and multi-demanded resource allocation is one among the challenging task to perform software development and deliveries cycle. The software industry requires multi-skill and dynamic performers. The skills domain knowledge and the developer's performance are considered as the potential key factors for the success of the delivery of projects. The developer's performance is influenced with cognitive factors and its measures. This study aimed to observe and compare a developer's performance in the software industry with his/her cognitive workload. The real-time observations of around 250 employees, 15 projects work status and its corresponding cognitive load such as physical ability, mental ability, temporal ability, effort, frustration and performance in Web application, Database application and Multimedia application domains are taken into consideration. According to the observed data the relationship between the performance and the cognitive load is evaluated.
