Abstract of Main Thesis

An Empirical Analysis on the Promotion of MOT based Training Comparing Japanese and International Institutions

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Abstract on the Content of the Applicant's Thesis

Management of Technology (MOT) is a key enabler for innovation and sustainable business growth, training and education. However, MOT presents numerous ongoing challenges to organizations against a backdrop of global competition owing to: the increasing costs and complexities of technology; accelerated technological changes; technical innovations; and the reduction in product development life cycles. A set of hypotheses were defined deducing the relationship between teaching and learning outcomes towards the adoption of MOT as a framework. The study was conducted using the interaction survey method with in-depth interviews on a sample size of 250 international academics and students based on institutions in Japan and Vietnam. The relationship between core business methodologies and technology management processes were explored empirically by applying high performance Cloud computing concepts wherein `MOT enabled technology road-mapping' has become the focus of recent research. At the heart of this framework are two sets of educational processes that are important for the effective management of technology and knowledge processes: (1) the 'core' processes involve a Cloud based hybrid learning platform termed as CA-Cloud, a new architectural framework utilizing concepts of systems, resource-orientations and other theoretical and practical viewpoints; and (2) the motivations of academic teaching and the learning outcomes of the students respectively.　The proposed framework is utilized as an integrating mechanism in the academic and business domains towards evaluating the learning and teaching performances of academics and its students after MOT based training. Hence, policy recommendations and decision making should be dealt with prudence and pragmatism.

Keywords: Academics, Architecture, CA-Cloud, Hybrid Learning, Japan, Management of Technology, Students, Vietnam.