

## SISTM Seminar Series: Mahdi Fahmideh Gholam

UNSW Business School, Quadrangle Building 2093

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**Title:** A Methodological Approach to Support Cloud Computing Migration

**Presenter:** Mahdi Fahmideh Gholam, UNSW Australia

**Abstract:** The growing prevalence and potential impact of cloud computing technology has sparked significant attention amongst IT industry and academia. It offers potential clients a wide range of services which are universally accessible, acquirable, releasable, and payable on the fly based on the amount of usage. Many IT-based organisations are moving their legacy software applications to cloud environments. An effective method for conducting such transition is crucial to a successful migration. The literature review reveals that the methodological aspect of the cloud migration has not been well addressed, despite calls expressed by several researchers to resolve this issue. The existing knowledge about cloud migration process is fragmented over the literature, narrow in tactical focus with heterogeneous viewpoints, and lacking support for creating customised methods, that fit given cloud migration scenarios. By adopting the design science paradigm, this research proposes a framework, which provides a generic process model of the cloud migration associated with guidelines. The model can be reused and tailored for creating, configuring, and maintaining situational methods for various cloud migration scenarios. The proposed framework offers two functionalities: (i) a generic and

platform-independent process model which captures domain constructs relevant to the cloud migration (ii) a tailoring procedure which aids creating, fine-tuning, and standardising situational methods for a given cloud migration scenarios through reusing the process model. The framework is validated and refined by feedback received from domain experts and case studies. The framework facilitates consistent communication and efficient knowledge sharing in the cloud migration domain. It also underpins a substrate for creating, maintaining, and publishing cloud migration scenarios.

**Bio:** Mahdi is a PhD candidate at the University of New South Wales. He holds a B.Sc. and an M.Sc. in the software engineering. Mahdi's research interests lie in the areas of design science research, information system development (ISD) methods, and conceptual modelling. The underlying theme of Mahdi's research is to develop solutions for adopting new technologies such as cloud computing, big data, and service orientation. Mahdi's work has been published in top software engineering journals such as Journal of Systems and Software (JSS) and top IS conferences such as the European Conference on Information Systems (ECIS). He has served as a reviewer for several IS and software engineering conferences and journals. Prior starting his PhD at UNSW Business School, Mahdi has served as a system analyst and programmer in national government IT projects for several years.