

# **A METHOD FOR DERIVING SYSTEM MODELS BASED ON BUSINESS PROCESS MODELS**

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## **ABSTRACT**

This paper presents a new method for deriving system models based on business process models. The congruence between the central notion of 'automated activity' in improved RAD model and that of 'process' in DFD facilitates the deriving process. This method led to develop system models in early stage which can be used to perform what-if analysis to define the applicability and profitability of the anticipated software system. The process of cancer registration in Jordan is used to demonstrate the proposed approach and showing its ease and timeliness. Finally, further work is planned to validate and evaluate the proposed method using several cases with different domains.

**Keywords:** Business Process Modeling, System Modeling, Role Activity Diagramming, System Requirements.