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This paper proposes a system identification procedure to approximate virtualized software system dynamics within the framework of a Hammerstein-Wiener model. The approach is an extension of the existing works where the linear dynamics are estimated in Frequency Sampling Filter (FSF) structure and the inverse static output nonlinearity are synthesized in B-Spline curve functions. Furthermore, the issue on parameter selection for B-spline model approximation is addressed by using a data clustering method. An experimental test-bed of virtualized software system is established to generate experimental data which are used to confirm the performance of the proposed approach. The identification results have shown that the model efficacy is increased with the proposed approach because the dimension of the nonlinear model is reduced significantly while maintaining the desired accuracy.

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I. Introduction

The increasing range of applications and services maintained by software systems motivates the growing popularity of virtualization technology to intensify the computing performance. In a virtualization framework, the pool of shared resources needs to be attained dynamically by adjusting the resources according to a user requirement while acknowledging the requirement of other users [1]. These issues can be addressed efficiently on the basis of dynamic management [2]. The effectiveness of dynamic management for resource provisioning and performance properties between multiple users in a shared resources application is highly determined by the accuracy of model prediction. The relationship between resources provisioning and performance properties in virtualized software systems consists of linear and nonlinear dynamics [12]. However, most of existing literature pays little attention to the nonlinear dynamics by only using linear models in their control system designs, e.g. [3], [4].

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Kohei Suzuki; Tatsuo Toda; Gan Chen; Isao Takami
2015 IEEE Conference on Control Applications (CCA)
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