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Ferhan M. Atici* (ferhan.atici@wku.edu), Department of Mathematics, Western Kentucky University, 1906 College Heights Blvd #11078, Bowling Green, KY 42101, and **Fahriye Uysal** (fahriyeuysal@akdeniz.edu.tr), Department of Business Administration, Faculty of Economics and Administrative Sci., Akdeniz University, 07058 Antalya, Turkey. *A Production-Inventory Model of HMMS on Time Scales.*

The aim of this paper is to investigate the optimal production and inventory paths of HMMS type models (proposed by Holt, Modigliani, Muth and Simon) on complex time domains. Time scales calculus which is a rapidly growing theory is a main tool to solve and to analyze the model. This paper will enrich management and economics by providing a flexible and capable modelling technique. (Received January 08, 2007)