

# **BUILDING A SECURITY SYSTEM FROM GROUND UP: A CONCEPTUAL MODEL FOR MIS MANAGERS**

*Hossein Bidgoli, CSUB, 9001 Stockdale HWY, Bakersfield CA 93311, (661) 6542331,  
hbidgoli@csub.edu*

## **ABSTRACT**

A conceptual model that serves as a blueprint for security practitioners and managers can improve the integrity of information resources. However putting such a model together is a multifaceted task and requires careful examination of several security factors. This model requires the identification of security risks, threats, and vulnerabilities and then the identification of measures that could guard against these various security challenges. The conceptual model presented in this paper by analyzing relevant security factors and five real life case examples propose a 5-step conceptual model. If the model is carefully followed, it could significantly improve the security of computers, network systems, and information resources.