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An Empirical Analysis of the Determinants for Adopting Vocera Wireless Communication Systems

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Abstract : There are growing interests in improving service delivery in the healthcare sector through the adoption of emerging digital technologies, including the Vocera B3000n communication system badge. As a result, understanding the factors that impact the adoption of such digital technologies is becoming important. This study investigates the determinants of task-technology fit through the adoption of Vocera B3000n communication system badge in healthcare sector in South Africa. Statistical analyses are performed on the data collected from 143 healthcare workers including registered nurses and personal care workers at three hospitals in South Africa through survey to test the relationship between task characteristics, technology characteristics and user characteristics for better understanding the task-technology fit and the adoption of Vocera communication systems in South African hospitals. The result reveals that all three factors have a significant impact on task-technology fit through the adoption of Vocera B3000n communication system badge. Such findings are useful for healthcare sector in their adoption of digital technologies for improving service delivery through effective communication in their workplace.

Keywords: adoption, communication systems, task-technology fit, user characteristics, Vocera

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