SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

FACTORS INFLUENCING THE ADOPTION OF CLOUD COMPUTING FOR SMES IN SRI LANKA

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List of Abbreviations

DOI- Diffusion of Innovation

IaaS – Infrastructure as a Se Service

ICT- Information Communication Technology

IS – Information System

IT - Information Technology

PaaS – Platform as a Service

PC – Personal Computers

SaaS – Software as Service

SDKs- Software Development Kits

SME- Small Medium Enterprises

SPSS – Statistical Package for the Social Sciences

TOE- Technology, Organization, Environment

Abstract
Cloud computing is a computing paradigm provides many advance computing services for organizations via internet on pay- for- use based. This paper examined the multiple factors influence the adaption of cloud computing for SMEs in Sri Lanka. The research model developed by combination of diffusion of innovation (DOI) theory and technological, organizational and environmental (TOE) framework. Data were collected from 87 SMEs in Sri Lanka by online survey and analyzed using Pearson correlation coefficient and multiple linear regression methods. Six main hypotheses were tested with three sub- hypotheses. Results were shown that relative advantage, complexity, top management support, and technology readiness were positively influenced and regularity support and competitive pressure were not positively influenced for the cloud adaption for SMEs in Sri Lanka.

Key words: Cloud computing, Cloud adaption, Small and medium scale enterprises (SME), Diffusion of innovation (DOI) theory, Technology, organizational and environmental framework (TOE)