INTERACTION WITH SOCIAL ICT: STUDY AMONG ELDERLY IN INDIA



A THESIS

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ABSTRACT

In today's world, elderly are the fastest growing population segment. In the past, management research scholars have not given enough importance to this age group owing to their non-significant proportion compared to other age groups. We find limited literature to understand the problems of elderly life and their solution. Below we outline two key reasons why it is vital to study elderly as a separate population segment. First, elderly are psychologically different, studies dedicated to other age group are not directly applicable to them. Second, contrary to other age groups, elderly are reluctant to adapt to new development or new environment.

Broadly, our study belongs to the subject of gerontechnology. "Gerontechnology is defined as the study of technology for ensuring good health, full social participation, and independent living throughout the lifespan, as long as it may extend" (Plaza, Martin, Martin, & Medrano, 2011). The main objective of our study is to understand the role of ICT in reducing the psychological problems of elderly.

We follow a mixed method approach to conduct our study. In the initial stage, we use a qualitative research methodology. With the help of a semi-structured interview, we elicited the information from selected elderly. Using content analysis of the interview transcripts we extracted the most relevant themes. The extracted themes helped to construct the conceptual research model that was used in quantitative analysis. Our research study consist of two quantitative research models; to explore how ICT use by elderly ends in positive socialization outcome and to find factors and mechanism that contribute to the technology resistance among elderly.

Our study is based on the three prominent theories of elderly i.e. the disengagement theory, the continuity theory, and the activity theory of aging. On the foundation of these three theories, a model is built considering Actor-Network Theory and Activity Theory. We conceptualized

moderated mediation model of construct Social Participation. In the model, ICT use (ICT) is the independent variable, Social Participation (SOP) is outcome variable, and the relationship of ICT to SOP is mediated by Social Isolation (SOI). Further, based on a neuroscientific study the relationship of ICT to SOP and SOP to SOI is hypothesized by the moderating variable "loneliness"; Analysis of the first model suggests that with the use of ICT, elderly develop a network that ultimately leads to their social participation resulting in their well-being.

The second study explores the salient factors contributing to the resistance to ICT by elderly. The second model is causal mechanism model of technology resistance. Resistance being a cognitive force, we considered cognitive theory such as Social Cognitive Theory (SCT) of Bandura in this part of our study. We found elderly resistance to new technology is deeply grounded in the past where hierarchical cognitive mechanism controls the resistance. Past and family and social support for elderly forms various perceptions on new technology leading to the resistance. The salient factors include perceived threat, perceived cost, and self-efficacy. A significant contribution of our study is about slicing of human cognitive mechanism in three distinct levels such as sources of perceptions, various perceptions, and resisting cognitive force. Whereas the previous studies have not used cognitive mechanism to explain resistance (H. W. Kim & Kankanhalli, 2009; Xue et al., 2015). Existing measurement scales are adopted, and modified to suit our context.

Our study contributes to the literature by exploring the agency of ICT and demonstrating its favorable outcome in a specific context. Further, the study examines human-technology interaction from human cognition point of view. To managers, our research shows an innovative mechanism by which they can understand their specific age group customers and customized their product and services accordingly.

Keywords

Elderly, Resistance to ICT; ICT enable socialization; Technology Anxiety, Loneliness, Content analysis,

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LIST OF ABBREVIATIONS

AT Activity Theory AVE Average Variance Extracted BT Back Translation CA Content Analysis CB-SEM Covariance Based SEM CFA Confirmatory Factor Analysis CIT Collaborative and Iterative Translation CMB Common Method Bias CMV Common Method Variance CR Composite Reliability CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation STAM Senior Technology Acceptance Model UN United Nations WHO World Health Organization	ANT	Actor-Network Theory
BT Back Translation CA Content Analysis CB-SEM Covariance Based SEM CFA Confirmatory Factor Analysis CIT Collaborative and Iterative Translation CMB Common Method Bias CMV Common Method Variance CR Composite Reliability CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS-SEM Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOD Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	AT	Activity Theory
BT Back Translation CA Content Analysis CB-SEM Covariance Based SEM CFA Confirmatory Factor Analysis CIT Collaborative and Iterative Translation CMB Common Method Bias CMV Common Method Variance CR Composite Reliability CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS-SEM Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOD Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	AVE	Average Variance Extracted
CB-SEM Covariance Based SEM CFA Confirmatory Factor Analysis CIT Collaborative and Iterative Translation CMB Common Method Bias CMV Common Method Variance CR Composite Reliability CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	BT	
CFA Confirmatory Factor Analysis CIT Collaborative and Iterative Translation CMB Common Method Bias CMV Common Method Variance CR Composite Reliability CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square PLS-SEM Partial Cognitive Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Participation STAM Senior Technology Acceptance Model UN United Nations	CA	Content Analysis
CIT Collaborative and Iterative Translation CMB Common Method Bias CMV Common Method Variance CR Composite Reliability CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square PLS-SEM Preceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	CB-SEM	Covariance Based SEM
CMB Common Method Bias CMV Common Method Variance CR Composite Reliability CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	CFA	Confirmatory Factor Analysis
CMV Common Method Variance CR Composite Reliability CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	CIT	Collaborative and Iterative Translation
CR Composite Reliability CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	CMB	Common Method Bias
CTA Confirmatory Tetrad Analysis DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	CMV	Common Method Variance
DV Dependent Variable EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	CR	Composite Reliability
EIM Equity Implementation Model ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	CTA	Confirmatory Tetrad Analysis
ETAM Extended Technology Acceptance Model FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	DV	Dependent Variable
FSS Family and Social Support ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	EIM	Equity Implementation Model
ICT Information and Communication Technology IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	ETAM	Extended Technology Acceptance Model
IS Information Systems IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	FSS	Family and Social Support
IT Information Technology IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	ICT	Information and Communication Technology
IV Independent Variable LON Loneliness MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	IS	Information Systems
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MDS Minimum Data Set MIS Management Information Systems PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	IV	Independent Variable
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PEOU Perceived Ease of Use PFC Perceived Financial Cost PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	MDS	Minimum Data Set
PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	MIS	Management Information Systems
PKI Past Knowledge Inertia PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	PEOU	Perceived Ease of Use
PLS Partial Least Square PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	PFC	Perceived Financial Cost
PLS-SEM Partial Least Square SEM PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	PKI	Past Knowledge Inertia
PRT Perceived Threat RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	PLS	Partial Least Square
RES Resistance to ICT SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	PLS-SEM	Partial Least Square SEM
SBT Status-quo Bias Theory SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	PRT	Perceived Threat
SCT Social Cognitive Theory SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	RES	Resistance to ICT
SEF Self-Efficacy SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	SBT	Status-quo Bias Theory
SEM Structural Equation Modeling SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	SCT	Social Cognitive Theory
SOI Social Isolation SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	SEF	Self-Efficacy
SOP Social Participation STAM Senior Technology Acceptance Model UN United Nations	SEM	
STAM Senior Technology Acceptance Model UN United Nations	SOI	Social Isolation
UN United Nations	SOP	Social Participation
	STAM	Senior Technology Acceptance Model
WHO World Health Organization	UN	United Nations
	WHO	World Health Organization