



Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation

Sujeet K. Sharma, Yogesh K. Dwivedi, Bhimaraya Metri, Nripendra P. Rana

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Preface

The IFIP Working Group (WG 8.6) was established in the early '90s “to foster understanding and improve research in practice, methods, and techniques in the transfer and diffusion of information technology within systems that are developed, and in the development process¹.” The 2020 IFIP WG 8.6 conference on the theme “Re-Imagining Diffusion of Information Technology and Systems: A Continuing Conversation” was held at Tiruchirappalli, India, and was hosted by the Indian Institute of Management (IIM) Tiruchirappalli during December 18–19, 2020. We are grateful to IIM Tiruchirappalli for providing all required facilities and the IFIP WG 8.6 for mentoring the successful organization of the conference. The proceedings volumes of this conference focus on the re-imagination of diffusion and adoption of emerging technologies.

Developments in blockchain, artificial intelligence, Internet of Things, social media, mobile computing and applications, agile systems development techniques, cloud computing, and business analytics have become central to the business and the cycle of innovation has sped up, platforms provide quick access to infrastructure, and information spreads on a 24-h cycle. These developments, in turn, have impacted the way both organizations and societies, engage with transfer and diffusion of information technology (IT) systems within and between organizations, in interactions with customers, and society in general. The question is no longer how to adopt and diffuse IT systems, but how to quickly assess and manage those that best serve the broader purposes of businesses and societies. In addition to the idea of adoption and diffusion of IT systems, IT teams in organizations and individuals are also working on how IT systems are contributing to the value creation in both organizations and society.

There is an innate need for understanding the diffusion and adoption of emerging information technologies and systems (i.e., artificial intelligence, blockchain, Fin-Tech applications, Internet of Things, social media), which are expected to have a substantial impact on future economic development of society, organizations, and individuals (Borus et al. 2020; Dwivedi et al. 2019ab; Hughes et al. 2019; Ismagilova et al. 2019; Janssen et al. 2019). A review of the role of information technologies, particularly over the past two decades, clearly shows the vital link between technology adoption and socio-economic development in many economies (Venkatesh et al. 2016; Williams et al. 2015). The Gartner report on “Top Strategic Technology” in 2019² lists trends including blockchain, artificial intelligence, autonomous things (robots, vehicles, drones, etc.) among others as the game changers that could revolutionize industries and their strategic models through 2023. These emerging technologies have great potential to contribute to organizational and societal reforms. Thus, in the recent past, the

¹ <http://ifipwg86.wikidot.com/about-us>.

² <https://www.forbes.com/sites/peterhigh/2019/10/21/breaking-gartner-announces-top-10-strategic-technology-trends-for-2020/#47dbbb940744>.

scholarly body is showing an increased interest in the understanding of adoption, usage, impact, and potential of aforementioned technologies mentioned on individuals, societies, and organizations.

This conference brought together scholars and practitioners from interdisciplinary areas for the enrichment of scholarly deliberations on the adoption, usage, impact, and potential of emerging technologies. The conference mainly focused on the papers that addressed questions related to the diffusion and adoption of emerging technologies. Besides, we were also open and committed to the broader theme of the IFIP WG 8.6. We created 15 tracks with 2 or 3 track chairs. We received 247 papers, including 214 through EasyChair account and 33 direct submissions through conference email. All submissions were double-blind reviewed by at least two knowledgeable reviewers. This process resulted in 122 full and short papers. The acceptance rate of the papers in the conference proceedings is about 49.4%. We are grateful to all track chairs who selected reviewers and provided constructive and timely comments to authors to revise and resubmit their manuscripts.

Due to a large number of submissions, the conference proceedings of IFIP WG 8.6 are divided into two volumes. There are seven sections in Volume I and eight sections in Volume II.

Volume one includes sections namely:

- Artificial Intelligence and Autonomous Systems
- Big Data and Analytics
- Blockchain
- Diffusion and Adoption Technology
- Emerging Technologies in e-Governance
- Emerging Technologies in Consumer Decision Making and Choice
- Fin-Tech Applications
- Healthcare Information Technology
- Internet of Things

Volume two includes:

- Information Technology and Disaster Management
- Adoption of Mobile and Platform-Based Applications
- Smart Cities and Digital Government
- Social Media
- Diffusion of Information Technology and Systems (Conference Theme)

We sincerely thank all authors, reviewers, participants, Program Committee members, track chairs, advisory board, IFIP WG 8.6 officials, and IIM Tiruchirappalli staff who helped in making this conference a grand success.

October 2020

Sujeet K. Sharma
Yogesh K. Dwivedi
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References

- Brous, P., Janssen, M., and Herder, P., 2020. The dual effects of the Internet of Things (IoT): A systematic review of the benefits and risks of IoT adoption by organizations. *International Journal of Information Management*, 51, p.101952.
- Dwivedi, Y. K., Rana, N. P., Jeyaraj, A., Clement, M., and Williams, M. D. 2019a. "Re-Examining the Unified Theory of Acceptance and Use of Technology (UTAUT): Towards a Revised Theoretical Model," *Information Systems Frontiers* (21:3), Springer New York LLC, pp. 719–734. (<https://doi.org/10.1007/s10796-017-9774-y>).
- Dwivedi, Y.K., Hughes, L., Ismagilova, E., Aarts, G., Coombs, C., Crick, T., Duan, Y., Dwivedi, R., Edwards, J., Eirug, A., and Galanos, V., 2019b. Artificial Intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy. *International Journal of Information Management*, p.101994. DOI: <https://doi.org/10.1016/j.ijinfomgt.2019.08.002>
- Hughes, L., Dwivedi, Y. K., Misra, S. K., Rana, N. P., Raghavan, V., and Akella, V. (2019). Blockchain research, practice and policy: Applications, benefits, limitations, emerging research themes and research agenda. *International Journal of Information Management*, 49, 114–129.
- Ismagilova, E., Hughes, L., Dwivedi, Y. K., and Raman, K. R. (2019). Smart cities: Advances in research—An information systems perspective. *International Journal of Information Management*, 47, 88–100.
- Janssen, M., Luthra, S., Mangla, S., Rana, N. P., and Dwivedi, Y. K. 2019. "Challenges for Adopting and Implementing IoT in Smart Cities: An Integrated MICMAC-ISM Approach," *Internet Research* (29:6), Emerald Group Publishing Ltd., pp. 1589–1616. (<https://doi.org/10.1108/INTR-06-2018-0252>).
- Venkatesh, V., Thong, J. Y. L., and Xu, X. 2016. "Unified Theory of Acceptance and Use of Technology: A Synthesis and the Road Ahead," *Journal of the Association for Information Systems* (17:5), pp. 328–376. (<https://doi.org/10.17705/1jais.00428>).
- Williams, M. D., Rana, N. P., and Dwivedi, Y. K. 2015. "The Unified Theory of Acceptance and Use of Technology (UTAUT): A Literature Review," *Journal of Enterprise Information Management*, Emerald Group Publishing Ltd., pp. 443–448. (<https://doi.org/10.1108/JEIM-09-2014-0088>).

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Contents – Part I

Artificial Intelligence and Autonomous Systems

Analysis of Factors Influencing the Adoption of Artificial Intelligence for Crime Management	3
<i>Praveen R.S. Gummadidala, Nanda Kumar Karippur, and Maddulety Koilakuntla</i>	
Organizational Adoption of Artificial Intelligence in Supply Chain Risk Management	10
<i>Souma Kanti Paul, Sadia Riaz, and Suchismita Das</i>	
Language Model-Driven Chatbot for Business to Address Marketing and Selection of Products.	16
<i>Amit Kumar Kushwaha and Arpan Kumar Kar</i>	
Using Work System Theory, Facets of Work, and Dimensions of Smartness to Characterize Applications and Impacts of Artificial Intelligence.	29
<i>Steven Alter</i>	
Visualising the Knowledge Domain of Artificial Intelligence in Marketing: A Bibliometric Analysis.	43
<i>Elvira Ismagiloiva, Yogesh Dwivedi, and Nripendra Rana</i>	
Emerging Technologies and Emergent Workplaces: Findings from an Ethnographic Study at an Indian IT Organization	54
<i>Vinay Reddy Venumuddala and Rajalaxmi Kamath</i>	
Learning Environments in the 21 st Century: A Mapping of the Literature. . . .	67
<i>Tumaini Kabudi, Ilias Pappas, and Dag Håkon Oslen</i>	
Artificial Intelligence in Practice – Real-World Examples and Emerging Business Models.	77
<i>Jayanthi Radhakrishnan and Sumeet Gupta</i>	
Determinants and Barriers of Artificial Intelligence Adoption – A Literature Review	89
<i>Jayanthi Radhakrishnan and Manojit Chattopadhyay</i>	
Public Policy and Regulatory Challenges of Artificial Intelligence (AI)	100
<i>Santosh K. Misra, Satyasiba Das, Sumeet Gupta, and Sujeet K. Sharma</i>	

Big Data and Analytics

Value Creation from the Impact of Business Analytics.	115
<i>Hari Saravanabhavan, Seetha Raman, and K. Maddulety</i>	
Exploring Associations Between Participant Online Content Engagement and Outcomes in an Online Professional Development Programme	126
<i>Ketan S. Deshmukh, Vijaya Sherry Chand, Kathan D. Shukla, and Arnab K. Laha</i>	
Exploring the Students Feelings and Emotion Towards Online Teaching: Sentimental Analysis Approach.	137
<i>T. PraveenKumar, A. Manorselvi, and K. Soundarapandiyan</i>	

Blockchain

Blockchain in Supply Chain Management: A Review of the Capability Maturity Model.	149
<i>R. Balakrishnan Unny and Bhajan Lal</i>	
Indian MSME's Sustainable Adoption of Blockchain Technology for Supply Chain Management: A Socio-Technical Perspective.	159
<i>Vineet Paliwal, Shalini Chandra, and Suneel Sharma</i>	
A Study on Calendar Anomalies in the Cryptocurrency Market.	166
<i>D. Susana, S. Sreejith, and J. K. Kavisanmathi</i>	
Does Herding Behaviour Among Traders Increase During Covid 19 Pandemic? Evidence from the Cryptocurrency Market	178
<i>D. Susana, J. K. Kavisanmathi, and S. Sreejith</i>	

Diffusion and Adoption Technology

Investigating the Effect of User Reviews on Mobile Apps: The Role of Customer Led Innovation.	193
<i>Miriam Erne, Zhiying Jiang, and Vanessa Liu</i>	
Education Transformation Using Block Chain Technology - A Student Centric Model	201
<i>Shankar Subramanian Iyer, A. Seetharaman, and K. Maddulety</i>	
Adopting Learning Analytics to Inform Postgraduate Curriculum Design	218
<i>Denis Dennehy, Kieran Conboy, Jaganath Babu, Johannes Schneider, Joshua Handali, Jan vom Brocke, Benedikt Hoffmeister, and Armin Stein</i>	

User Adoption of eHRM - An Empirical Investigation of Individual Adoption Factors Using Technology Acceptance Model.	231
<i>Suryanarayan Iyer, Ashis K. Pani, and L. Gurunathan</i>	
Micro-foundations of Artificial Intelligence Adoption in Business: Making the Shift.	249
<i>Amit Kumar Kushwaha and Arpan Kumar Kar</i>	
Pandemic Pandemonium and Remote Working: An Investigation of Determinants and Their Contextual Behavior in Virtualization of Work-From-Home (WFH) Process	261
<i>Kalyan Prasad Agrawal, Ashis K. Pani, and Rajeev Sharma</i>	
Psychological Determinants of Consumer's Usage, Satisfaction, and Word-of-Mouth Recommendations Toward Smart Voice Assistants.	274
<i>Anubhav Mishra and Anuja Shukla</i>	
Antecedents to Continuance Intention to Use eGovernment Services in India	284
<i>Brinda Sampat and Kali Charan Sabat</i>	
Re-imagining the Use of Data Standards for Retail Products: The Case of GS1 Through a Service-Dominant Logic	292
<i>Shirish C. Srivastava and Stéphane Cren</i>	
Adoption of Digital Innovation in Crop Insurance - A Data Analytics Based Benchmarking Study of Samrakshane Portal in Karnataka	298
<i>Madhuchhanda Das Aundhe, Jang Bahadur Singh, N. Ramesh, and M. Vimalkumar</i>	
Re-imagining Technology Adoption Research Beyond Development and Implementation: ITOps as the New Frontier of IS Research	307
<i>Archimedes T. Apronti and Amany Elbanna</i>	
Working from Home During Covid-19: How Do We 'Do' Social Interaction at a Distance?.	320
<i>Banita Lal, Yogesh K. Dwivedi, and Markus Haag</i>	
CIPPUA: Towards Coherence and Impact in ICT4D/IS	329
<i>A. Kayode Adesemowo</i>	
Exploring Causal Factors Influencing Enterprise Architecture Failure.	341
<i>Yiwei Gong and Marijn Janssen</i>	
Comparative Study of Nature-Inspired Algorithms.	353
<i>Mohammad Abdullah Tahir, Hasan Faraz Khan, and Mohammad Mohsin Khan</i>	

Emerging Technologies in e-Governance

- “#Government” - Understanding Dissemination, Transparency,
Participation, Collaboration and Engagement on Twitter for Citizens 365
Purva Grover and Arpan Kumar Kar

- An Intention-Adoption Behavioral Model for Open Government Data
in Pakistan’s Public Sector Organizations—An Exploratory Study. 377
*Muhammad Mahboob Khurshid, Nor Hidayati Zakaria,
Muhammad Irfanullah Arfeen, Ammar Rashid,
Hafiz Muhammad Faisal Shehzad, and Mohammad Nazir Ahmad*

- Exploring the Adoption of Multipurpose Community Telecentres
in Sub-Saharan Africa 389
Josue Kuika Watat

- Digital Identity Evaluation Framework for Social Welfare 401
Umar Bashir Mir, Arpan Kumar Kar, and Manmohan Prasad Gupta

- Exploring Net Benefits in the Context of an E-Government Project. 415
Ambuj Anand

Emerging Technologies in Consumer Decision Making and Choice

- Impact of Digital Transformation on Retail Banking Industry in the UAE . . . 425
Umesh Kothari and A. Seetharaman

- Information Seeking Behaviour in Online Shopping 439
Christina Sanchita Shah and Anindita Paul

- Developing a Model for Green IS Adoption in Indian Banking
and IT Industries. 451
Monika Singh and G. P. Sahu

- Consumer Insight on Driverless Automobile Technology Adoption
via Twitter Data: A Sentiment Analytic Approach. 463
*Michael Adu Kwarteng, Alex Ntsiful, Raphael Kwaku Botchway,
Michal Pilik, and Zuzana Komínková Oplatková*

- A Study on the Factors Influencing Behavioral Intention of Indian
Consumers in Adopting Voice Assistants 474
Dimple Kaul, Mohak Shah, and Neeraj Dhakephalkar

- A Study on Attributes of Websites with Specific Reference to Online
Purchase Intentions of Baby Products in Chennai 484
E. Pradeep and R. Arivazhagan

Customers Interest in Buying an Electric Car: An Analysis of the Indian Market	493
<i>M. Prabakaran and M. Selvalakshmi</i>	
The Impact of Digital Marketing on Exploratory Buying Behavior Tendencies (EBBT).	510
<i>K. K. Roshni, T. Shobana, and R. Shruthi</i>	
Fin-Tech Applications	
Influence of FinTech Companies on Banking Landscape an Exploratory Study in Indian Context.	523
<i>Parvathy Venkatachalam</i>	
Is Cash Still the Enemy? The Dampening of Demonetization's Ripple Effect on Mobile Payments	529
<i>U. Mahesh Balan and Abhipsa Pal</i>	
Explaining Variation in Adoption of FinTech Products and Services Among Citizens: A Multilevel Model	541
<i>Ben Krishna and Satish Krishnan</i>	
Investor's Perception Towards Mutual Fund Investing on the Rise of Digitalization in Indian Mutual Fund Industry.	553
<i>K. Pushpa Raj and B. Shyamala Devi</i>	
Financial Inclusion via Mobile Banking – A Comparison Between Kenya and India	561
<i>M. C. Arthi and Kavitha Shanmugam</i>	
The Evolution of Causal Mechanisms that Drive the Diffusion of Platforms: Investigating Corrective Mechanisms.	570
<i>Abhinay Puvvala, Shane McLoughlin, Brian McLafferty, Yuliia Yehorova, and Brian Donnellan</i>	
Performance Modelling on Banking System: A Data Envelopment Analysis-Artificial Neural Network Approach	581
<i>Preeti and Supriyo Roy</i>	
Healthcare Information Technology	
Physicians' and Nurses' Perceived Threats Toward Health Information Technology: A Military Hospital Case Study	601
<i>Mansor Alohal, Fergal Carton, and Yvonne O'Connor</i>	

Multiple Machine Learning Models for Detection of Alzheimer’s Disease Using OASIS Dataset	614
<i>Preety Baglat, Ahmad Waleed Salehi, Ankit Gupta, and Gaurav Gupta</i>	
Social Media and Public Health Emergency of International Concern: The COVID-19 Outbreak.	623
<i>Josue Kuika Watat and Magaly Moukoko Mbonjo</i>	
Factors Influencing AI Implementation Decision in Indian Healthcare Industry: A Qualitative Inquiry	635
<i>Vranda Jain, Nidhi Singh, Sajeet Pradhan, and Prashant Gupta</i>	
Understanding Factors Influencing the Usage Intention of Mobile Pregnancy Applications	641
<i>Brinda Sampat, Ashu Sharma, and Bala Prabhakar</i>	
Internet of Things	
A Data Driven Approach for Customer Relationship Management for Airlines with Internet of Things & Artificial Intelligence.	657
<i>Rajesh G. Pillai and Poonam Devrakhyani</i>	
IoT Based Climate Control Systems Diffusion in Intelligent Buildings - A System Dynamics Model	673
<i>Arunvel Thangamani, L. S. Ganesh, Anand Tanikella, and A. Meher Prasad</i>	
Occupant Adoption of IoT Based Environment Service in Office Spaces: An Empirical Investigation.	685
<i>Arunvel Thangamani, L. S. Ganesh, Anand Tanikella, and A. Meher Prasad</i>	
Contribution of Trust Factor Towards IOT Diffusion – An Empirical Study Using Acceptance Model	694
<i>Reuban Gnana Asir and Hansa Lysander Manohar</i>	
Design Space Exploration for Aerospace IoT Products.	707
<i>Thirunavukkarasu Ramalingam, Joel Otto, and Benaroya Christophe</i>	
Author Index	723

Contents – Part II

Information Technology and Disaster Management

ICT Platform-Enabled Socio-Economic Ecosystem in Himalayan Villages of India: The Case of a Forest Protection and Renewable Energy Production Project	3
<i>Gaurav Dixit, Kapil Kumar Joshi, and Vinay Sharma</i>	
Protective Security by Online Promotions Paired with Mobile Payments: Evidence from Covid-19 Crisis Relief Fund Collection in India	15
<i>Abhipsa Pal and Salamah Ansari</i>	
Digital Humanitarianism in a Pandemic Outbreak: An Empirical Study of Antecedents and Consequences.	24
<i>Anup Kumar, Niraj K. Vishwakarma, and Parijat Upadhyay</i>	
Information Diffusion for Real Time Resource Planning During Crisis Leveraging Emerging Digital Technologies	33
<i>Swarnalakshmi Ravi, T. J. Kamalanabhan, and Thanga Jawahar</i>	
From Human Automation Interactions to Social Human Autonomy Machine Teaming in Maritime Transportation.	45
<i>Carine Dominguez-Péry and Lakshmi Narasimha Raju Vuddaraju</i>	

Adoption of Mobile and Platform-Based Applications

Effects of MDM Adoption on Employee in the Context of Consumerization of IT	59
<i>Ashis K. Pani, Praveen K. Choudhary, Susmi Routray, and Manas Ranjan Pani</i>	
Information Technology Usage and Cognitive Engagement: Understanding Effects on Users' Cognitive Processes	70
<i>Himanshu Agarwal and Gaurav Dixit</i>	
Mobile Wallet Continuance Adoption Intention: An Empirical Study in Cameroon.	82
<i>Samuel Fosso Wamba and Maciel M. Queiroz</i>	
An Extended Tam Model to Explain the Adoption of Payment Banks in India	91
<i>Somya Gupta and G. P. Sahu</i>	

Assessing Challenges to Mobile Wallet Usage in India: An Interpretive Structural Modeling Approach	103
<i>Nripendra P. Rana, Sunil Luthra, and H. R. Rao</i>	
Factors Driving the Adoption of Mobile Banking App: An Empirical Assessment in the Less Digitalized Economy	114
<i>Alex Ntsiful, Michael Adu Kwarteng, Abdul Bashiru Jibril, Boris Popesko, and Michal Pilik</i>	
Antecedents of Digital Platform Organising Visions	126
<i>Fábio Neves da Rocha and Neil Pollock</i>	
Are Video Resumes Preferred by Job Applicants? Information Technology in Recruitment	138
<i>Apoorva Goel and Richa Awasthy</i>	
Virtual Platforms for Government Services in COVID-19 and Beyond: A Sociomaterial Case Study of Passport Service in Ghana	150
<i>John Effah</i>	
Consumer Resistance to Mobile Banking Services: Do Gender Differences Exist?	162
<i>Kayode A. Odusanya, Olu Aluko, and Ayodeji Ajibade</i>	
Harnessing the Potentials of Mobile Phone for Adoption and Promotion of Organic Farming Practices in Nigeria.	170
<i>A. Kayode Adesemowo, Adebayo Abayomi-Alli, O. Oluwayomi Olabanjo, Modupe O. Odusami, Oluwasefunmi T. Arogundade, and Tope Elizabeth Abioye</i>	
The Impact of Personality Traits Towards the Intention to Adopt Mobile Learning	182
<i>Nesa Nabipour Sanjebad, Anup Shrestha, and Pezhman Shahid</i>	
Smart Cities and Digital Government	
Impact of Disruptive Technologies on Smart Cities: Challenges and Benefits	197
<i>Balasubramaniam Krishnan, Seetharaman Arumugam, and Koilakuntla Maddulety</i>	
Developing Indian Smart Cities: Insights from Social Media	209
<i>Naganna Chetty and Sreejith Alathur</i>	
Orchestration of an e-Government Network: Capturing the Dynamics of e-Government Service Delivery Through Theoretical Analysis and Mathematical Forecasting.	219
<i>Sayantana Khanra and Rogers P. Joseph</i>	

Investigating Emerging Technologies Role in Smart Cities' Solutions	230
<i>Ali Al-Badi, Sujeet Kumar Sharma, Vishal Jain, and Asharul Islam Khan</i>	
Trust and e-Government Projects – An Exploratory Study	242
<i>Ambuj Anand</i>	
Expanding Beyond Technology-Driven Factors: IoT for Smart City Services	252
<i>Malliga Marimuthu</i>	
Aspects of Digital Urbanism in India and Abroad	259
<i>Sriram Rajagopalan and R. Sriram</i>	
Citizens' Participation as an Important Element for Smart City Development	274
<i>Anton Manfreda, Nejc Ekart, Matic Mori, and Aleš Groznik</i>	
Social Media	
There Is Nothing Real! A Study of Nonuse of TikTok in India.	287
<i>Imon Chakraborty, Unnati Kapoor, and P. Vigneswara Ilavarasan</i>	
Mining the Social Discussions Surrounding Circular Economy: Insights from the Collective Intelligence Shared in Twitter	303
<i>Purva Grover and Arpan Kumar Kar</i>	
Studying Online Political Behaviours as Rituals: A Study of Social Media Behaviour Regarding the CAA	315
<i>Amit Kumar Kushwaha, Subhadeep Mandal, Ruchika Pharswan, Arpan Kumar Kar, and P. Vigneswara Ilavarasan</i>	
Health Fear Mongering Make People More Sicker: Twitter Analysis in the Context of Corona Virus Infection	327
<i>Jayan Vasudevan and Sreejith Alathur</i>	
Sentiment Analysis and Topic Modelling of Indian Government's Twitter Handle #IndiaFightsCorona	339
<i>Christina Sanchita Shah and M. P. Sebastian</i>	
Listen to Your Customers! "A Study About Content Creation on Social Media to Enhance Customer Engagement"	352
<i>Arjen Doek, Ton AM Spil, and Robin Effing</i>	
Social Commerce Constructs and Trust as Influencers of Consumer Decision Making With Reference to Fashion E-Tailing	371
<i>Sarulatha Neelankandan and Sasirekha Venkatesan</i>	

Women's Political Participation on Social Media: The Case of Tanzania	384
<i>Banita Lal, Shrumisha Kwayu, and Sajeel Ahmed</i>	
What Makes a Social Media Manager? Insights from the Content Analysis of Job Advertisements in India	391
<i>Ruchika Pharswan, P. Vigneswara Ilavarasan, and Arpan Kumar Kar</i>	
A Meta-analysis of Social Commerce Adoption Research.	404
<i>Prianka Sarker, Nripendra P. Rana, Laurie Hughe, and Yogesh K. Dwivedi</i>	
Antecedences and Consequences of Customer Engagement in Online Brand Communities: Multi-national Perspective	419
<i>Ali A. Alalwan, Abdullah M. Baabdullah, Yogesh K. Dwivedi, Nripendra P. Rana, and Rand H. Al-Dmour</i>	
Social Media Uses Among Youths and Matured Person.	428
<i>Shubhendra S. Parihar and Puneet Rai</i>	
How Do Consumers Perceive Brand Campaigns on Twitter?	438
<i>Muskan Jain, Angeline Gautami Fernando, and K. Rajeshwari</i>	
A Conceptual Framework of Social Media Influence on Mobile Banking Usage Among Young Indian Consumers	444
<i>Manisha Sharma and Subhojit Banerjee</i>	
Fans' Attachment to Players in the Indian Premier League: Insights from Twitter Analytics.	451
<i>Giridhar B. Kamath, Shirshendu Ganguli, Simon George, and Vibha</i>	
Trusting Social Media News: Role of Social Influence and Emotions Using EEG as a Brain Imaging Tool.	463
<i>Gaurav Dixit and Shristi Bose</i>	
Value Creation Through Social Media Marketing: A Threat to Sustainability Performance?	475
<i>Adwoa Yeboaa Owusu Yeboah, Michael Adu Kwarteng, and Petr Novak</i>	
An Exploratory Study of Twitter Sentiment Analysis During COVID-19: #TravelTomorrow and #UNWTO	487
<i>V. Senthil and Susobhan Goswami</i>	
Preliminary Insights into Social Commerce in the Fitness Industry of Ghana	499
<i>Eric Klutse Adevu, Joseph Budu, Walter Dzimey, and Edward Entee</i>	

Diffusion of Information Technology and Systems (Conference Theme)

Digital Transformation of Organizations – Defining an Emergent Construct.	511
<i>Ashis Kumar Pani and Himadri Sikhar Pramanik</i>	
Opposite Outcomes of Social Media Use: A Proposed Model.	524
<i>Rita Rocha-Penedo, Frederico Cruz-Jesus, and Tiago Oliveira</i>	
The Effect of Technostressors on Universities Teaching Staff Work Performance During COVID19 Pandemic Lockdown.	538
<i>Zainah Qasem, Ali Abdallah Alalwan, Zaid Mohammad Obeidat, and Raeda AlQutob</i>	
Role of Intrinsic and Extrinsic Factors Affecting Continuance Intentions of Digital Payment Services	544
<i>Anup Kumar, Parijat Upadhyay, Sujeet K. Sharma, and Prashant Gupta</i>	
Revisiting the Trust–Commitment and Export Performance Link: A Qualitative Comparative Analysis (QCA) Approach.	556
<i>AFM Jalal Ahamed and Ilias O. Pappas</i>	
The Influence of Public Service Experience on Adopting Digital Government Innovations in Ethiopia	569
<i>Debas Senshaw and Hossana Twinomurinzi</i>	
Accessibility Issues in Indonesian E-Commerce Portals: Issues and Recommendations for Business Improvement and Growth	581
<i>Raghuram Balaga</i>	
Proposed Model for Effective Implementation of IS Megaproject in an Emerging Economy.	592
<i>Sharad Sharma, Rekha Jain, and Vishal Gupta</i>	
Antecedents of the Barriers Toward the Adoption of Unified Payment Interface.	608
<i>Sayantan Khanra, Rogers P. Joseph, Amandeep Dhir, and Puneet Kaur</i>	
Understanding the Challenges of Mandatory Telework Adoption and Its Effect on Employee Engagement.	626
<i>Harshit Kumar Singh and Sanjay Verma</i>	
Competitiveness, Change Readiness, and ICT Development: An Empirical Investigation of TOE Framework for Poverty Alleviation.	638
<i>Mukesh Narmetta and Satish Krishnan</i>	

Implementing ICT at School Level: Factors Affecting Teachers’ Perceived Proficiency	650
<i>Chandan Singhavi and Prema Basargekar</i>	
Child Online Safety Intervention Through Empowering Parents and Technical Experts: Indian Context.	662
<i>Dittin Andrews, Sreejith Alathur, and Naganna Chetty</i>	
Analysing ERP Implementations from Organizational Change Perspective: An Exploratory Study	674
<i>S. L. N. Raja, Nidheesh Joseph, and Abhishek Totawar</i>	
Employees’ Acceptance of AI Integrated CRM System: Development of a Conceptual Model	679
<i>Sheshadri Chatterjee, Kuttimani Tamilmani, Nripendra P. Rana, and Yogesh K. Dwivedi</i>	
Modified UTAUT2 to Determine Intention and Use of E-Commerce Technology Among Micro & Small Women Entrepreneurs in Jharkhand, India	688
<i>Sraboni Dutta and Shradha Shivani</i>	
Author Index	703