Guest Editorial Preface

Special Issue on Emerging Information and Communication Technology Solutions for Digital Transformation

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INTRODUCTION

The Digital transformation initiatives aim to transform nations into a digitally empowered society and knowledge economy by leveraging ICT as a growth engine. The present conference EICTSDT 2018 aims to combine Symbiosis International (Deemed University)'s core competencies with Digital Transformation and Digital India Vision under its Faculty of Computer Studies. EICTSDT 2018 offers a unique platform for researchers, professionals, government officials and Students to deliberate on covering several domains under the theme "Emerging ICT Solutions for Digital Transformation". The conference aims in covering both business and engineering aspects due to emerging trends in ICT for building Digital Nations. The conference encourages and invites original and innovative research work in relevance with the conference theme. The conference ensures presentation and discussion on quality research work done in recent times by academicians, researchers, students, industry experts, analysts, business managers and practitioners. Plenary sessions by recognized key note speakers and presentation of research papers accepted after quality review process is the major attraction for the research fraternity across industry and academia.

AIM AND SCOPE OF CONFERENCE

This conference aims at:

- Exploring the idea of researchers to empower government processes and functioning;
- To create, disseminate and enhance capacity building using digital transformation;
- To establish a framework of accountability, roles, and decision-making authority for an organization's or nation's digital presence;
- India is currently embarking on a digitally enabled innovation idea. With the Government's vision of a 'Digital India', the country has commenced a journey towards digital transformation in the lives of citizens across the country. Without doubt, 'Digital India' will empower citizens, improve the governance in all areas, put learning over education, help in re-skilling the people, create new sustainable employment opportunities, change and improve the overall IT sector;

- While the benefits emerging from the use of digital technologies are highly significant, the challenges emanating from the same cannot be ignored. In order to stay relevant to the context, organizations need to have a right management approach to effectively digitalize their activities. All the stakeholders of 'Digital India' will interpret and utilize it in their own ways brings their own management perspective. However, managing these perspectives and using the management method of co-creation would be the most ideal way to identify the challenges and evolve solutions; this would be the key to the success of 'Digital India' idea.

EICTSDT 2018 organized under the aegis of Faculty of Computer Studies, Symbiosis International (Deemed University)'s constituent institutes namely Symbiosis Institute for Computer Studies and Research (SICSR) and Symbiosis Centre for Information Technology (SCIT), Pune.

Gartner (Gartner, 2000 and Kaur R 2016) mentions, "E-government is the continuous optimization of service delivery, constituency participation and governance by transforming internal and external relationships through technology, the Internet and new media." The e-government is the use of information and communication technologies (ICTs) to improve the activities of public sector organizations (Bertot, 2010) and (Jindal, 2016).

The telecommunication networks provide the services for digital transformation with the help of multimedia and data forwarding. Soft computing techniques, such as fuzzy logic, neural networks, genetic algorithms (Teece, D. J. 2010) have replaced conventional techniques in many engineering applications, especially in control systems and have been proved to be very effective.

Education has become accessible to all with the growing popularity of MOOCs (Massive Open Online Courses) and SPOCs (Small Private Online Courses) (Kaplan et. al, 2016) owing to the digital revolution. Digital technologies will not only affect the way courses are delivered, but also impact the functioning of an organization (Brynjolfsson & McAfee, 2012). Attempts are being made to implement MOOCs in India.

LIST OF PUBLICATIONS

This special issue contains a total of four papers as listed below and presented in International Conference on Emerging Information and Communication technology Solutions for Digital Transformation (EICTSDT-2018) that was organized in Pune (Maharashtra), India during March 8-9, 2018.

Paper title: A Novel Architecture for learner-centric curriculum sequencing in adaptive intelligent tutoring system:
- ◦ **Author 1:** Ninni Singh
- ◦ **Author 2:** Amit Kumar
- ◦ **Author 3:** Neelu Jyothi Ahuja

Paper title: Enhancing New Product Development Effectiveness through Internet of Things Origin Real Time Data:
- ◦ **Author 1:** Samir Yerpude
- ◦ **Author 2:** Tarun Kumar Singhal

Paper title: Exploring E-Governance of Faculty Evaluation System using a Total Interpretive Structural Modeling Approach:
- ◦ **Author 1:** Naim Shaikh
- ◦ **Author 2:** Sneha Kumari
- ◦ **Author 3:** Kishori Kasat

Paper title: Developing an Information Security Risk Taxonomy and an Assessment Model using Fuzzy Petri Nets:
- ◦ **Author 1:** Dhanya Pramod
- ◦ **Author 2:** Vijayakumar Bharathi. S

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Jindal, N. A., Sehrawat, A., & Medury, Y. (2016). Status of User-Centric E-Governance Practices in North India. *Prabandhan: Indian Journal of Management*, *9*(4), 18–29. doi:10.17010/pijom/2016/v9i4/90769

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McAfee, A., Brynjolfsson, E., Davenport, T. H., Patil, D. J., & Barton, D. (2012). Big data: The management revolution. *Harvard Business Review*, *90*(10), 60–68. PMID:23074865

Teece, D. J. (2010). Business models, business strategy and innovation. *Long Range Planning*, *43*(2), 172–194. doi:10.1016/j.lrp.2009.07.003

Lalit S. Kathpalia is the Director, Symbiosis Institute of Computer Studies and Research. Lalit has done his PhD in the Faculty of Computer Studies from Symbiosis International University. His PhD was on the research topic "Developing a System Dynamics Model of the Indian IT industry". Lalit is an Educator, Technologist and Management professional with 30 years of experience both in India and abroad in software development, education, training, program management and project management over varied platforms and diverse software. He is a recipient of the prestigious IBM Faculty Award of 2012. Before joining Symbiosis, Dr. Kathpalia was the Chief Delivery Officer for CELTEM Knowledge Solutions and Delivery Anchor for the Banking Unit, APAC of Infosys Technologies. He has worked for Bennett Coleman and Co. Ltd in Mumbai, Cambridge Technology Partners (CTP), Larsen & Toubro Ltd, HSBC Global Technology Centre and Computer Horizons. Lalit is on the board of the System Dynamics Society, India Chapter. He is the Chair of the International Institute of Business Analysts, Pune, India Chapter. He advises several businesses and educational institutions on technology, systems modelling, business models and innovation.

Sachin A. Naik is a post graduate in Computer Science from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad and completed his doctoral degree from Symbiosis International (Deemed University). Currently he is working as Assistant Professor in Symbiosis Institute of Computer studies and Research, a constituent of Symbiosis International (Deemed University). He has a strong teaching experience in the field of computer science and information technology. His area of expertise is in digital image processing, pattern recognition, software engineering and object oriented programming. He has published papers in referred/indexed journals including SCOPUS and conferences of international repute. He is also member of professional bodies like IAENG.

Dhananjay Deshpande is Assistant Professor in the Symbiosis Institute of Computer Studies and Research, a constituent of Symbiosis International (Deemed University), Pune, India. He worked as Assistant Professor and department head in the Department of Computer Management in CES RMD IOM, at Savitribai Phule Pune University, Pune. He also worked Assistant Professor in the Computer Science department of Spicer Adventist University, Pune. He has been awarded by PhD in Computer Application and Management by Dr. BAM University, Aurangabad, Maharashtra, India. He received a BSc from Dr. BAM University Aurangabad, India, Bachelor of Education from Shivaji University, Kolhapur, India, MCM from University of Pune, India, MCA from Punjab Technical University, Jalandhar, India. He is the member of Editor-Review-Board of International Journal of Knowledge Management (IJKM) which is listed in WoS/Scopus indexed journal of IGI Global USA . He is Guest Editor for the Special Issue of two international journals that is "Journal of Cases on Information Technology (JCIT)" and "International Journal of Technology and Human Interaction (IJTHI)" these are listed in WoS/Scopus indexed journal of IGI Global USA. He is also serving as reviewer and member of Technical Program Committee for different reputed International Conferences and Journals. He served various tracks/sessions, program committees for international/national conferences, Seminar and workshops. Dr. Dhananjay has 3 years of IT industry experience and he has been teaching more than 15 years at the Indian universities and over 20+ different computer/IT-related courses, and advising more than 100+ graduate and post graduate students. He has published articles in refereed journals, conference proceedings and books. His current research interests areas are Knowledge Management, Knowledge Management Systems, Academic Research, Data Science, Data mining, Machine Learning, Web-enabled information system, Web mining and Web technologies.

Pravin S. Metkewar was awarded with "Parbhani Ratna" award for his excellence in academics in 1996. He stood rank first in MSc (computer science) in 1997. He has received his PhD degree from SRT University, Nanded in computer science under the faculty of science in Aug 2005. He has 20 years of experience in the field of teaching, R & D and industry. He has worked in IDRBT R&D centre as a Research Officer for three years. His specialization is in OOAD, Information Systems, Neural networks, Machine learning, Data analytics, Graph Theory, Image Analysis and Fuzzy Logic. He was a research mentor of Symbiosis International University under Faculty of Computer Studies. He is also mentoring students for writing research papers, handling their projects as well. He is a CSI life member. He was a member of Academic council, BOS and BOS Sub-committee in SIU, Pune. He had Industry - Academia collaboration with Zensar Technologies Ltd. and K.L. University, Vijaywada (AP). He has presented and published 85 research papers in International Journal, National Journal and IEEE proceedings and also 02 books in his account. He is a research guide of Symbiosis International (Deemed University), Pune. He was worked as Programme chair and steering committee member for EICTSDT 2018 International Conference @SICSR Pune.

Shrikant Mapari is Assistant Professor in the Symbiosis Institute of Computer Studies and Research, a constituent of Symbiosis International (Deemed University), Pune, India. He has 16+ years of worked experience in academics. He has completed his master degree in Computer Science from Dr.BAM University, Aurangabad. He qualified the SET exam, an eligibility test for Assistant Professor conducted by UGC, India. He had served as Technical Program Committee member, session chair for various International conferences. His areas of interests are Programming languages, Mobile and web Application development. His research area is pattern recognition and image processing. He is pursuing PhD from SIU, Pune.