

The 3rd International Research Conference on Emerging Information Technology and Engineering Solutions (ITES 2019)

19-20 December 2019 | SCIT, Pune, India
Website: <https://eites.scit.edu/2019/index.php>

Conference Report



In Academic Collaboration with



WIRTSCHAFT
HOCHSCHULE MAINZ
UNIVERSITY OF
APPLIED SCIENCES

University of Applied Sciences Mainz, Germany



SYMBIOSIS
INTERNATIONAL (DEEMED UNIVERSITY)



SYMBIOSIS
CENTRE FOR INFORMATION TECHNOLOGY

Organised By: Faculty of Computer Studies, Symbiosis International (Deemed University)

Hosting Institute: Symbiosis Centre for Information Technology, Pune India

Email Contact: eites@scit.edu

Prelude

Faculty of Computer Studies (FoCS), Symbiosis International (Deemed University), Symbiosis Centre for Information Technology (SCIT) in academic collaboration with University of Applied Sciences Mainz, Germany - Welcomes You All in the **3rd International Research Conference on Emerging Information Technology and Engineering Solutions (EITES 2019)** to be held at Symbiosis Centre for Information Technology (SCIT), Pune, India on **19-20 December 2019**. The conference intends to address the solution space that has been created and enriched by the research in emerging IT and associated engineering practices. All accepted & presented papers was published in **EITES 2019 Conference Proceedings, ISBN: 978-93-5396-566-2**. Two exclusive **Special Issues (SI)** in SCOPUS/WoS indexed International Journal for EITES 2019 has been approved. Extended Version of the selected papers based on the scope will be recommended for submission & publication in Special Issue of following SCOPUS/WoS indexed International Journal:

- International Journal of Cloud Applications and Computing (IJCAC), *IGI Global*, ISSN 2156-1834
- International Journal of Intelligent Information Technologies (IJIIT), *IGI Global*, ISSN 1548-3657

Also, extended version of selected papers will be recommended for submission to the following SCOPUS/WoS indexed International Journals:

- Benchmarking: An International Journal (BIJ), *Emerald*, ISSN 1463-5771
- Internet Research, *Emerald*, ISSN 1066-2243
- Data Technologies and Applications (DTA), *Emerald*, ISSN 2514-9288
- International Journal of Computer Applications in Technology (IJCAT) , *Inderscience Publishers*, ISSN 0952-8091

EITES 2019 brings the researchers from industry and academia together who will share the knowledge attained in specific areas of the field. The conference ensures presentation and discussion on quality research work done in recent times. Plenary sessions by recognized researchers and presentation of research papers accepted after quality review process are the major attractions for the research fraternity across industry and academia.

The **1st International Conference on Emerging Information Technology and Engineering Solutions (EITES 2012)** was held on 17-18 February 2012. Some of the highlights have been:

- Address by *Eminent Speakers*.
- Quality Review Process was highly appreciated. Acceptance Ratio was 8.33%.
- Proceedings were published in the special issues of *American Journal of Engineering and Applied Sciences (AJEAS)*, volume 5, issue: 3, 2012 by *Science Publications*.
- Three extended papers were published in *International Journal of System Assurance Engineering and Management*, volume: 3, Issue: 2, June 2012, *Springer*.
- Two extended papers were published in *SCIT Journal 2012*, volume: XII, August 2012.

The **2nd International Conference on Emerging Information Technology and Engineering Solutions (EITES 2015)** was held on 20-21 February 2015 with following highlights:

- In collaboration with *School of Information Science and Engineering, Ritsumeikan University, Japan*
- Address by *Eminent Speakers*.
- Industry Sponsor - *IBM, India*
- Quality Review Process was highly appreciated. Acceptance Ratio was 14.28%.
- Publication Partner: *Conference Publishing Services (CPS)* published the EITES 2015 Conference Proceedings in CD as well as online in *IEEE Xplore*.
- Best Paper Award (First): ₹15000.00 & Best Paper Award (Second) : ₹10000.00

EITES 2019 will uphold the same quality, standard and equivalent publication opportunities. All accepted & presented papers have been published in **EITES 2019 Conference Proceedings, ISBN: 978-93-5396-566-2**. Extended version of the selected papers will be recommended for submission & publication in Special Issue OR Regular paper in SCOPUS/WoS indexed International Journal.

The 3rd International Research Conference

on

Emerging Information Technology and Engineering Solutions (EITES 2019)

ETES 2019

Acknowledgements

First of all, I would like to acknowledge the Almighty for strengthening me and providing good health to all the stake holders of this conference. Organizing EITES 2019 was a Marathon task which went over one year. The whole team worked for a year to make this conference a reality.

The solicitation of full papers, submissions, reviews and results were totally done using the EasyChair conference management system. Total 60 papers were taken into consideration for the review process and after rigorous review process 22 papers were selected for presentation and publication.

I take this opportunity to express our deep gratitude to all those who could make this happen. First of all, no words can express our gratitude to the Hon'ble Chancellor of Symbiosis International (Deemed University), Dr. S.B. Mujumdar, and the Pro Chancellor SIU & Principal Director Symbiosis Dr. Vidya Yeravdekar for patronizing this event. We thank the Hon'ble Vice Chancellor, Dr. Rajani Gupte for her approval and motivating advices we received at various junctures.

Our Source of inspiration and encouragement- Dean FoCS & Director SCIT- Dr. Dhanya Pramod , Thank you very much for Hoisting EITES 2019 and giving me the responsibility to take it forward. A big 'Thank You' to you, for guiding throughout the year to make this conference happen.

Academic Collaboration with University of Applied Sciences, Mainz, Germany was boon for EITES 2019. We also would like to acknowledge our gratitude to Dr. Gunther Piller, Dr Anett Mehler-Bicher, Dr. Bernhard Ostheimer, for being instrumental and giving their 100% for the collaboration as well as participating for EITES 2019. A big round of Applause to SCIT Team and Team from University of Applied Sciences, Mainz, Germany.

Our deepest gratitude goes to the Steering Committee members. Technical Programme Committee members and external reviewers have helped us with good as well as time bound reviews of papers. We were privileged to have them for EITES 2019 and thank them for the same. We recognize the wonderful support of Industry Chairs, Publicity Chairs, Sponsorship Chairs, Publications Chairs, Track Chairs, Financial Chairs, Local Arrangements Chairs and Best Paper Award judges.

We thank all our distinguished speakers- Mr. Sanjeev Nikore, Dr. M. Sasikumar, Prof. (Dr.) Anett Mehler-Bicher, Mr. Amit K. Pandey, Prof. (Dr.) Gunther Piller, Mr. Sanjay Nambiar and Dr. Aniruddha Pant for sparing valuable time from their busy schedule and also for providing a platform for listeners about research leading to the upcoming technologies and engineering solutions. We all were inspired by your presentations.

Our sincere gratitude goes to all the researchers/authors who selected EITES 2019 over other conferences for submitting their research papers.

A big thanks to the editors of IJCAC & IJIT (Scopus/WoS) for approving the Special Issue for EITES 2019 and also to the editors of BIJ, Internet Research, DTA & IJCAT (Scopus/WoS) for agreeing to take one or two extended versions.

I thank all attendees and our own students for making the whole interactions lively and worthwhile. We hope they all get benefited in one or the other way.

Last but not the least – the great facilitators of this event. We thank all members of the Faculty of SCIT for their continuous support and commitment to this cause of holding a good quality research conference. We also thank faculty members from SICSR for actively participating in this event

We thank our Sr. Systems Administrator Mr. Prashant, Network Administrator Mr. Yogesh, and Mr. Mangesh. We thank our Administrative Officer Mrs Savitha Nair, our HR Mrs Sonali, and SIC Admin officer Col. Kadam for their untiring support. All staff members of SCIT have participated in accomplishing this event in several ways. We thank them all.

Thanks are also due to Mr. Dhumal for keeping the website updated and Ms. Archana Pardeshi for arranging the logistics and hotel accommodation of the Speakers.

I also wish to express my sincere thanks to our professional students in role of , a): professional designer – Web& Media Team for designing Banners, Abstract Book, Badges, Certificates. b) Anchors/Comparers, c) Student Volunteers – untiring efforts for these two days, d) Eklavya Team & SymBeats- for the cultural program. Your performance was excellent; e) Social Media Team for post live Tweets related to the event happenings. They all worked shoulder to shoulder to make this conference successful in spite of their hectic schedule of evaluations A big applause to them as they executed it so well in short notice.

From core of my heart, I would like to acknowledge the hardship done by two junior research fellows Mrs Angelina & Mrs Dhruva in each paper session for logistic management and certificate preparations of presenters and attendees.

I believe that EITES 2019 will surely have fond memories, which you all will be taking with you. Hope it will be there till the Next edition of EITES. Till that time- Work Hard, Publish a lot and keep Researching

Once Again- Thank You All

Prof. (Dr.) Ajey Kumar

Program Chair -EITES 2019

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- **Dr. Apurva Mohan**, Schlumberger, U.S.A.
- **Dr. Debmalya Biswas**, Philip Morris International, Switzerland.
- **Prof. (Dr.) Hiromitsu Hattori**, Ritsumeikan University, Japan.
- **Prof. (Dr.) Hoang Pham**, Rutgers University, U.S.A.
- **Prof. (Dr.) Hongzhi Wang**, Harbin Institute of Technology, China.
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- **Prof. (Dr.) Mu-Song Chen**, Da-Yeh University, Taiwan.
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- **Prof. (Dr.) Qian Zhu**, University of Maryland, U.S.A.
- **Prof. (Dr.) Roberto Lopez-Gulliver**, Ritsumeikan University, Japan.
- **Prof. (Dr.) Seifedine Kadry**, American University of the Middle East, Kuwait.
- **Prof. (Dr.) Shigeru Yamada**, Tottori University, Japan.
- **Prof. (Dr.) Takahiro Wada**, Ritsumeikan University, Japan.
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- **Prof. (Dr.) Pravin Metkewar**, Symbiosis Institute of Computer Studies and Research, India.
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- **Prof. (Dr.) Himanshu Agrawal**, Symbiosis Institute of Technology, India.
- **Prof. (Dr.) Zeeshan Ahmed**, The University of Connecticut Health Center, USA.
- **Prof. (Dr.) Rakesh Kumar**, Madan Mohan Malaviya University of Technology, India.
- **Prof. (Dr.) B. B. Gupta**, National Institute of Technology Kurushetra, India.
- **Prof. (Dr.) Narendran Rajagopalan**, National Institute of Technology Puducherry, India.
- **Prof. (Dr.) Shivam Gupta**, Montpellier Business School, France.
- **Dr. Pradeep Bilurkar**, Barclays, India.
- **Prof. (Dr.) Sudeep D. Thepade**, Pimpri Chinchwadi College of Engineering, India.

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ETES 2019

1. Introduction

Concept Note

Research conferences provide a platform to academicians, researchers, students, industry experts, analysts, managers and practitioners to come together and review the contemporary work happening in a particular discipline of knowledge. In general, institutes of higher education are considered to be the custodians of specific disciplines, and it becomes their prerogative to organize such conferences, publish journals and hold forums. Symbiosis Centre for Information Technology (SCIT) is offering only Post-Graduate programme in the field of Information Technology Management and Data Sciences & Data Analytics; thus, the institute is expected to create, assemble and disseminate knowledge in the relevant field of IT. SCIT fulfills this expectation by organizing International Conference once in three years, publishing a peer reviewed journal yearly and conducting several seminars / events every year.

The first International Conference on Emerging Information Technology and Engineering Solutions (EITES) was held on February 2012. Some of the highlights have been:

- Address by Eminent Speakers.
- Quality Review Process was highly appreciated. Acceptance Ratio was 8.33%.
- Proceedings were published in the special issues of American Journal of Engineering and Applied Sciences (AJEAS), volume 5, issue: 3, 2012 by Science Publications.
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- Quality Review Process was highly appreciated. Acceptance Ratio was 14.28 %.
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- Best Paper Award (First): *Rs 15000.00* & Best Paper Award (Second) : *Rs 10000.00*

The third International Conference on Emerging Information Technology and Engineering Solutions (EITES) will be held on 19-20 December 2019. EITES 2019 will uphold the same quality, standard and

equivalent publication opportunities. All accepted & presented papers have been published in **EITES 2019 Conference Proceedings, ISBN: 978-93-5396-566-2**. Extended version of the selected papers will be recommended for submission & publication in Special Issue OR Regular paper in SCOPUS/WoS indexed International Journal.

Objective of the Conference

SCIT offers MBA in Information Technology Business Management by bringing in Information Technology (IT) and businesses together. In 2017, MBA in Data Sciences & Data Analytics was launched by SCIT for gaining competencies in analytics and better data insights using scientific methods.

The topic of the conference must be relevant to the businesses in the domain of IT. The conference must be able to attract not only academicians, researchers and students but the businesses as well. We understand that the rapid pace, with which IT and related engineering is changing, has been intimidating for large as well as small businesses. The level of difficulty in decoding the power of technology and associated engineering may be varying for different businesses owing to their experience and expertise but one cannot overrule the sheer presence of difficulty. We find such efforts relatively few, wherein, emerging technologies and their usage in businesses have been addressed with research perspective.

EITES aims to address the solution space created and enriched by the research work related to emerging IT and associated engineering practices. The scope of such research work is global and the conference is open to the International participants.

2. Call for Papers

The 3rd International Research Conference on
Emerging Information Technology and Engineering Solutions

(EITES 2019), 19-20 December 2019 | SCIT, Pune- India

Website: <https://eites.scit.edu/2019/index.php>

Call For Papers

EITES 2019 CFP Link: <https://eites.scit.edu/2019/papers.php>

EasyChair CFP Link: <https://easychair.org/cfp/eites2019>

Symbiosis Centre for Information Technology (SCIT) in academic collaboration with **University of Applied Sciences Mainz, Germany** - Welcomes You All in **EITES 2019**. The rapid pace of change in Information Technology has been intimidating for large and small businesses. The level of difficulty in decoding the power of technology and associated engineering may be varying for different businesses considering their experience and expertise but one cannot overrule the inherent complexity of the field. EITES 2019 intends to address the solution space that has been created and enriched by the research in emerging IT and associated engineering practices.

Topics of interest include, but are NOT limited to, the following:

- | | |
|--|--|
| <p>I. Industry 4.0</p> <ul style="list-style-type: none">• IoT and Analytics• Smart Cities• Digitization/ Digitalization• 3D-Printing• Smart Manufacturing• Edge Computing• Smart Grid <p>II. Artificial Intelligence and Cognitive Computing</p> <ul style="list-style-type: none">• Automation• Computer Vision• Robotics• Text Analytics and NLP• Cognitive IoT <p>III. Cyber Security Analytics</p> <ul style="list-style-type: none">• Data Privacy and Ethics• Cyber Intelligence• Next Generation Firewalls• Software Defined Protection• Cyber Intrusion Behavior• Cognitive Cyber Security• IoT Botnet• Block Chain | <p>IV. Big Data Analytics</p> <ul style="list-style-type: none">• Analytics Platforms• Cloud Computing• NoSQL Databases• Data Visualization• Online Social Network Analysis• High Performance Computing• Graph-based Data Analysis <p>V. Software Development</p> <ul style="list-style-type: none">• DevOps• Development Framework for AI applications• Software Analytics• Mining Software Repositories• Container based Software Artifacts• Dynamic Discovery & Version Management• Application Driven Resource Allocation• Cross Cloud Deployment <p>VI. Analytics Applications</p> <ul style="list-style-type: none">• Healthcare Analytics• Marketing Analytics• Governance• Digital Transformation• Supply Chain Analytics• Science and Engineering• Energy Analytics |
|--|--|

Important Dates:

Paper Submission Due: August 31, 2019

Notification of Acceptance: October 20, 2019

Camera Ready Paper Submission: November 20, 2019

Registration: November 01, 2019

Submission:

All accepted & presented papers will be published in **EITES 2019 Conference Proceedings**. Two exclusive **Special Issues (SI)** in SCOPUS/WoS indexed International Journal for EITES 2019 has been approved. Extended Version of the selected papers based on the scope will be recommended for submission & publication in Special Issue of following SCOPUS/WoS indexed International Journal:

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- **International Journal of Cloud Applications and Computing** (IJCAC), *IGI Global*, ISSN: 2156-1834
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- **Data Technologies and Applications** (DTA), *Emerald*, ISSN 2514-9288
- **International Journal of Computer Applications in Technology** (IJCAT), *Inderscience Publishers*, ISSN 0952-8091

Submission Guidelines: <https://eites.scit.edu/2019/submission.php>

EasyChair Submission Link: <https://easychair.org/conferences/?conf=eites2019>

More info at: <http://eites.scit.edu/2019/index.php>

If you have questions, please contact the organizers: eites@scit.edu

3. Review and Advisory Committee (RAC)

- **Prof. (Dr.) Dhanya Pramod**, Symbiosis Centre for Information Technology, India.
- **Prof. (Dr.) Aarti Dixit**, Defence Institute of Advanced Technology, India.
- **Prof. (Dr.) Ajey Kumar**, Symbiosis Centre for Information Technology, India.
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- **Dr. Pradeep Bilurkar**, Barclays, India.
- **Prof. (Dr.) Sudeep D. Thepade**, Pimpri Chinchwadi College of Engineering, India.
- **Prof. Angelina Gokhale**, Symbiosis Centre for Information Technology, India.

4. Conference Operating Model

Conference Operating Model is an important part of organising any conference. Following are the important activities considered for EITES 2019:

Key Activities

- Preparation of Concept Note of Conference
- Preparing the whole Organising Committee and sending invitation
- Search for Good Publication Partner
- Development of Website
- Selecting appropriate Conference Management System
- Preparing Call for Papers and disseminating it.
- Selecting and Inviting Speakers
- Making Reviewers resources and inviting them
- Review Process
- Accepted Papers selection
- Registration
- Invitation for Participation
- Local Arrangements for the Conference days

Collaborations

- Academic Collaboration
- Industry Collaboration
- Publication

Key resources

- Venue
- Committees/ teams
- Volunteers
- Speakers
- Conference Management System
- Publication Partner

Value

- Learning about research leading to the upcoming technologies and engineering solutions.

- Intellectually exciting and educative
- Opportunity to hear and interact with Quality Speakers
- Quality Papers
- Opportunity to hear and interact with researchers
- Opportunity of Collaboration

Relationships

- Dissemination the Call for Papers & updates to target Researchers.
- Inviting committee members from Academia, Industry and Research Institution.
- Collaboration

Target Segments

- IT Students
- IT Research Scholars
- IT Industry
- Academician & Industry Professionals

Cost Structure

- Rent of Venue
- Food- Lunch Dinner, tea & snacks
- Website Development
- Payment Gateway for payment of online registration fees
- Conference Management system- EasyChair
- Conference Proceeding
- Local Hospitality provided to speakers
- To-fro Air tickets for Speakers
- Designing and Printing of Posters, certificates, badges, etc
- Stage Decoration
- Photography & Video Recording

Funds/Revenue Streams

- Funds from University- SIU
- Registration Fees- from Authors, Attendees

Channels

- Information Dissemination via Emails
- Social Media- Facebook, LinkedIn
- Conference Website
- Posters
- Related Forums

5. Inauguration

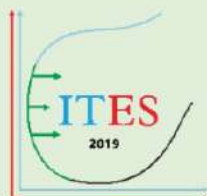


SYMBIOSIS
INTERNATIONAL (DEEMED UNIVERSITY)

Faculty of Computer Studies
Symbiosis International (Deemed University), India



SYMBIOSIS
CENTRE FOR INFORMATION TECHNOLOGY



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(EITES 2019)

19-20 December 2019 | SCIT, Pune- India

Website: <https://eites.scit.edu/2019/index.php>

INAUGURATION

Venue: SIC Auditorium, Symbiosis Centre for Information Technology (SCIT), Hinjewadi, Pune

Thursday, 19th December 2019

Dias – Pro Chancellor, Chancellor, Chief Guest, Dr. M. Sasikumar, Vice Chancellor, Dean FoCS

11:00 AM – 11:05 AM	Lighting of Lamp	All Dignitaries
11:05 AM – 11:10 AM	Felicitation to Dignitaries By	Dr. Dhanya Pramod, Dean FoCS, Symbiosis International (Deemed University), Pune, India & Director, Symbiosis Centre for Information Technology, Pune, India
11:10 AM – 11:15 AM	Welcome Address by	Dr. Dhanya Pramod, Dean FoCS, Symbiosis International (Deemed University), Pune, India & Director, Symbiosis Centre for Information Technology, Pune, India
11:15 AM – 11:25 AM	Address by	Dr. Rajani Gupte, Vice Chancellor, Symbiosis International (Deemed University), Pune, India
11:25 AM – 11:35 AM	Address by	Dr. Vidya Yeravdekar, Pro Chancellor, Symbiosis International (Deemed University) & Principal Director, Symbiosis, Pune, India
11:35 AM – 11:45 AM	Address by	Dr. S.B. Mujumdar, Founder & President, Symbiosis & Chancellor, Symbiosis International (Deemed University), Pune, India
11:45 AM – 12:15 PM	Address by	Chief Guest– Mr. Sanjeev Nikore, Growth Strategist, Ex-President Strategic Initiatives Tech Mahindra, India
12:15 PM – 1:00 PM	Keynote I: Educational Technology- Some Perspectives Dr. M. Sasikumar, Executive Director, CDAC, Mumbai, India	
1:00 PM – 1:05 PM	Vote of Thanks	Dr. Kanchan Patil, Deputy Director, Symbiosis Centre for Information Technology, Pune, India
1:05 PM – 2:00 PM	LUNCH	

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APPLIED SCIENCES

University of Applied Sciences Mainz, Germany



Lightening of Lamp



Felicitation of Dignitaries



Welcome Address by Dr. Dhanya Pramod



Address by Mr. Sanjeev Nikore



Keynote by Dr. M. Sasikumar

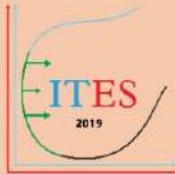


Vote of Thanks by Dr. Kanchan Patil

The dignitaries at the inauguration ceremony were: **Mr. Sanjeev Nikore**, *Growth Strategist, Ex-President Strategic Initiatives Tech Mahindra*, India; **Dr. M. Sasikumar**, *Executive Director, CDAC*, Mumbai, India; and **Dr. Dhanya Pramod**, Dean, Faculty of Computer Studies, Symbiosis International (Deemed University), India, & Director, Symbiosis Centre for Information Technology, Pune, India

Inauguration started with Saraswati Vandana followed by lightening of lamps. All the dignitaries were felicitated by the Dean, FoCS. EITES 2019 welcome address was given by **Dr. Dhanya Pramod**, Dean, Faculty of Computer Studies, Symbiosis International (Deemed University), India and she declared **EITES 2019 Open**. After the welcome address, dignitaries **Mr. Sanjeev Nikore**, and **Dr. M. Sasikumar** also addressed the enlightened audience. Inauguration ceremony was concluded by vote of thanks by **Dr. Kanchan Patil**, Deputy Director, Symbiosis Centre for Information Technology, Pune, India

6. Speakers



The 3rd International Research Conference
on
Emerging Information Technology and Engineering Solutions
(EITES 2019)
19-20 December 2019 | SCIT, Pune- India
ESTEEMED SPEAKERS



Inaugural Address as Chief Guest

11:45 AM – 12:15 PM, Thursday, December 19, 2019

Mr. Sanjeev Nikore, *Growth Strategist, Ex-President Strategic Initiatives, Tech Mahindra, India*



Keynote I : Educational Technology- Some Perspectives

12:15 PM – 1:00 PM, Thursday, December 19, 2019

Dr. M. Sasikumar, *Executive Director , CDAC, Mumbai, India*



Keynote II: Augmented and Virtual Reality: Categorization of Application

2:00 PM – 3:00 PM, Thursday, December 19, 2019

Prof. (Dr.) Anett Mehler-Bicher, *Dean, School of Business University of Applied Sciences Mainz, Germany.*



Keynote III: IT enabled Engineering Process

3:00 PM – 4:00 PM, Thursday, December 19, 2019

Mr. Amit K. Pandey, *Technical Director- Telematics, Cummins, India*



Keynote IV: IT Innovation Adoption: Strategies and System Design

4:15 PM – 5:15 PM, Thursday, December 19, 2019

Prof. (Dr.) Gunther Piller, *Vice Dean, School of Business University of Applied Sciences Mainz, Germany.*



Keynote V: Industry Use Cases and Solutions using AI and Machine Learning

11:00 AM – 12:00 PM, Friday, December 20, 2019

Mr. Sanjay Nambiar, *Vice-President, Wipro HOLMES, India*



Keynote VI: TextSense: Advanced Text Analytics platform-Internals and Business Use Cases

2:00 PM – 3:00 PM, Friday, December 20, 2019

Dr. Aniruddha Pant, *CEO, AlgoAnalytics Pvt. Ltd, Pune, India*



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Faculty of Computer Studies,

Symbiosis International (Deemed University), Pune India

Hosting Institute: Symbiosis Centre for Information Technology, Pune India



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CENTRE FOR INFORMATION TECHNOLOGY

Speaker Profile

Inaugural Address as Chief Guest

11:45 AM – 12:15 PM, Thursday, December 19, 2019

Mr. Sanjeev Nikore, *Growth Strategist, Ex-President Strategic Initiatives, Tech Mahindra, India*

Mr. Sanjeev is an industry veteran with 35 years of experience in Strategy, Consulting, Sales, Marketing, Operations in IT and Technology Services. Sanjeev is the CEO and Founder of Strategies2Scale, a consulting firm focused on growth and transformation. Sanjeev was one of the pioneers of IT infrastructure services in India and co-founded HCL Comnet in 1993 (currently a USD 4 bn division of HCL Technologies). Sanjeev had a career spanning 24 years in HCL Comnet and HCL Technologies and played various roles viz Chief Operating Officer, President of Industry Verticals as well as the President for Asia Pacific, India and MEA regions. In his last corporate role Sanjeev was President of Strategic Initiatives and Global Head of Marketing at Tech Mahindra. Sanjeev has participated in various industry initiatives and forums, notable being:

- Setting up the first fully electronic stock exchange in India, National Stock Exchange of India (NSE);
- Active participation in liberalization of telecom sector in India-ex President of VSAT Services Association of India;
- Ex-Member of the advisory board on ICT and eco-sustainability for World Economic Forum;
- Active in IIT alumni and mentor to various start-ups and mid-sized IT services firms in India and abroad;
- Advisor to School of Inspired Leadership, Gurgaon for Digital and Marketing programs.

Currently Sanjeev is advising a number of IT and Technology firms on growth strategy, upskilling and transformation.

Sanjeev is a Mechanical Engineer from IIT, Benares Hindu University (1982) & MBA from Faculty of Management Studies, University of Delhi (1985). Sanjeev loves to coach, mentor & consult and is an active speaker at Industry and Academic forums.

Keynote I: Educational Technology- Some Perspectives

12:30 PM – 1:15 PM, Thursday, December 19, 2019

Dr. M. Sasikumar, *Executive Director, CDAC, Mumbai, India*

Dr. Sasikumar M is currently Executive Director of CDAC Mumbai. He has been with CDAC since 1987 after completing his BTech from IIT Madras. He completed his Post-graduation from IISc, Bangalore and Doctorate from BITS, Pilani. His areas of interest are Artificial Intelligence, and Educational Technology. He has co-authored two books, one is with Prentice Hall on Parallel Computing. 6 students have completed their PhD under his guidance and three are in progress. He has initiated and nurtured a number of projects in the area of AI and E-learning during his career. He has over 100 publications so far. He is programme committee member in a number of international conferences, member of Board of Studies and advisory board for select institutions. He is also an adjunct professor of Education Technology, at IIT Bombay. He is fairly active in social media like Facebook, LinkedIn, and research gate.

Keynote II: Augmented and Virtual Reality: Categorization of Application

2:00 PM – 3:00 PM, Thursday, December 19, 2019

Prof. (Dr.) Anett Mehler-Bicher, *Dean, School of Business University of Applied Sciences Mainz, Germany.*

Dr. Anett is currently working as, *Dean, School of Business University of Applied Sciences Mainz, Germany.* She is also Co-Head of the Academic Section IT Management for part-time MSc. Her passion is in Information Systems, especially Database Systems and Networks and research areas are Augmented and Virtual Reality, E-Business models, etc. Subjects she teaches are E-Business, IT Resource Management, Project Management, Scientific Research Methods in Information Systems and Business Administration, Digital Transformation, Thinking out of the Box,

Dr. Anett did her PhD in Information Systems from University of Bamberg, Germany and Mathematics with Computer Science and Business Administration from University Mainz, Germany.

Keynote III: IT enabled Engineering Process

3:00 PM – 4:00 PM, Thursday, December 19, 2019

Mr. Amit K. Pandey, *Technical Director, Telematics, Cummins, India*

Amit K Pandey is Technical Director and Leader of Digital Product Connectivity and Telematics organization in Cummins India. He has close to 17 years of industry experience in use of electronics and

information technology to enable intelligence in automobile and industrial products. He has worked with major Indian OEMs such as Ashok Leyland, Mahindra and global tier-1 organization such as Eaton and Cummins in various technology leadership roles.

His current focus areas are product connectivity, cyber-physical systems and data enabled product development and care. He is an engineering graduate from NIT Raipur and masters from IIT Delhi.

Keynote IV: IT Innovation Adoption: Strategies and System Design

4:15 PM – 5:15 PM, Thursday, December 19, 2019

Prof. (Dr.) Gunther Piller, *Vice Dean, School of Business University of Applied Sciences Mainz, Germany.*

Dr. Gunther is currently working as, *Vice Dean, School of Business University of Applied Sciences Mainz, Germany.* His research areas are Big Data Adoption, Data Mining & Machine Learning. Subjects he teaches are Enterprise Resource Systems, Business Process Management, Product Management, Enterprise Architecture Management

Dr. Piller did his PhD in Nuclear & Particle Physics from University of Regensburg, Germany. His past experience includes - Research Associate at the University of Adelaide, Australia and Technical University of Munich; and Solution Management Director, SAP SE

Keynote V: Industry Use Cases and Solutions using AI and Machine Learning

11:00 AM – 12:00 PM, Friday, December 20, 2019

Mr. Sanjay Nambiar, *Vice-President, Wipro HOLMES, India*

Mr. Sanjay's steers Wipro's AI and automation business where he helps create, shape and deliver market-focused AI-led service offerings. Under his leadership, building new domain-specific AI/Automation solutions in addition to collaborative AI partnerships that need to be forged and go-to-market strategies form the key focus areas. In the last 6 years; Sanjay's focus has been on Artificial Intelligence and Automation products cum solutions spanning product management, product development and customer success.

With over two decades of experience in client relationship management and business development, Sanjay expertise lies in carving new business offerings and driving business outcomes across multiple verticals including retail, consumer goods, financial services and telecom.

Sanjay is also a speaker and thought leader. He regularly writes for several publications including Economic Times, Business World and others.

Keynote VI: TextSense: Advanced Text Analytics platform-Internals and Business Use Cases

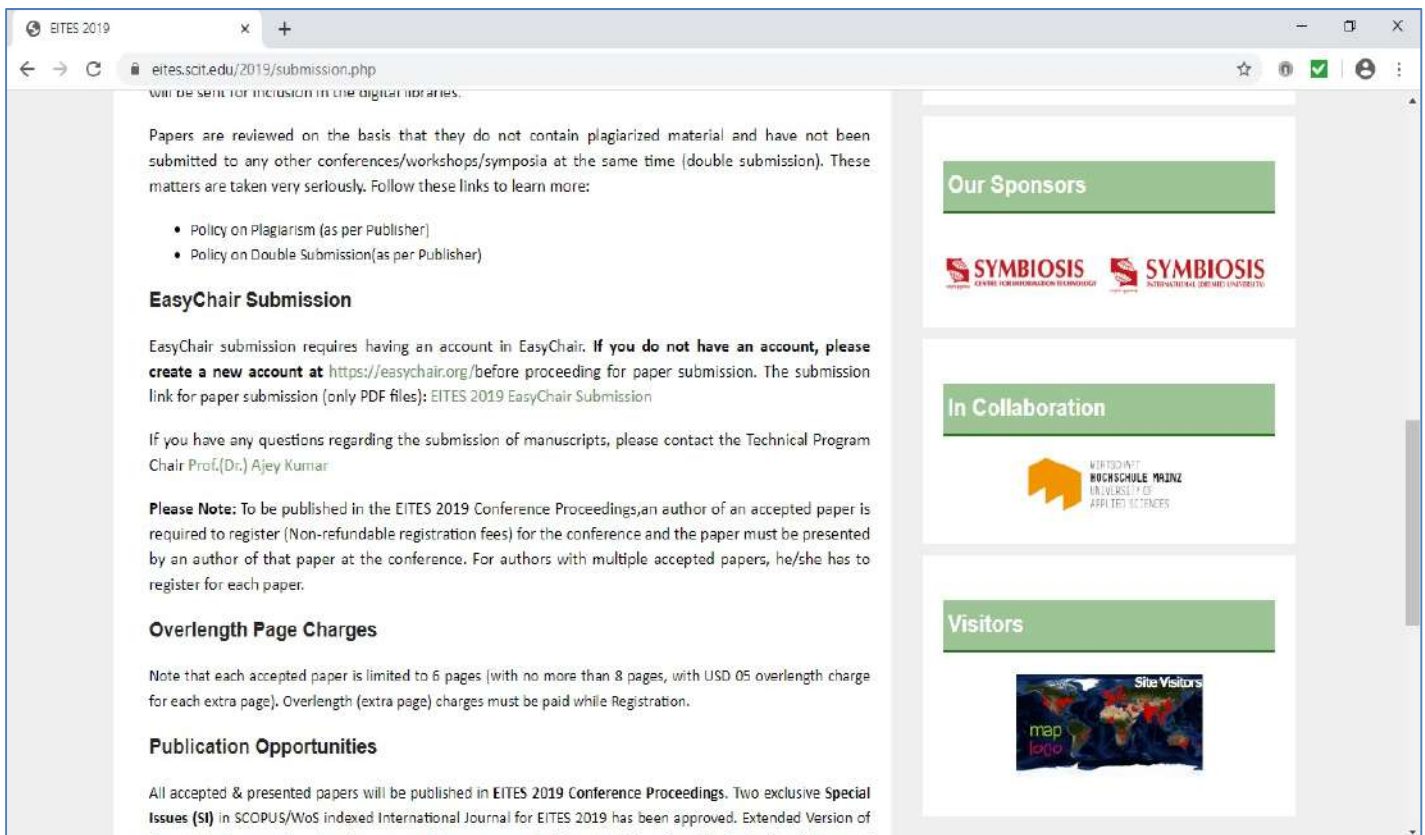
2:00 PM – 3:00 PM, Friday, December 20, 2019

Dr. Aniruddha Pant, *CEO, AlgoAnalytics Pvt. Ltd, Pune, India*

Dr. Aniruddha Pant is Founder & CEO, AlgoAnalytics Pvt. Ltd, Pune, India. He has a PhD in Control Systems from the University of California, Berkeley, and holds ~20 years of experience in the application of advanced mathematical techniques to various enterprise problems. His expertise spans Financial Engineering, Quantitative Trading, Hedging, Data Analytics, Machine Learning, Medical Imaging and Control Theory.

He also has 15+ years of experience in building and leading groups specializing in high-end quantitative work.

7. Snapshot of Website



URL: <https://eites.scit.edu/2019/index.php>

Registration

All **Authors / Co-Authors /Attendees** must register via the payment gate link provided here.

- To Register as **Authors / Co-Authors** : [Click Here](#)
- To Register as **Attendees** : [Click Here](#)

Kindly read the **Details and Terms & Conditions** as given below, before proceeding for payment.

Registration Fees (Revised):

Indian Author	Rs 5000.00 Rs 4200.00
Foreign Author	USD 200.00
Indian Attendee	Rs 2500.00 Rs 2100.00
Foreign Attendee	USD 100.00
Indian Student	Rs 1000.00 Rs 850.00
Foreign Student	USD 50.00
Indian Accompanying Person (Spouse)	Rs 1000.00 Rs 850.00
Foreign Accompanying Person (Spouse)	USD 50.00
Overlength Page Charges (max. 2 pages)	USD 5.00 per page/ Rs 200 per page

Indian Currency: 18 % Goods & Service Tax (GST) plus Convenience fees based on the mode of payment (as given in the table below) along with taxes will be charged additionally to the Registration Fees. The final

News Updates

12 Dec 2019: Paper Presentation Schedule- Visit "Programme" tab

29 Nov 2019: Registration link is Active

22 Oct 2019: Notification of Acceptance/Revision extended to October 24,2019.

10 Oct 2019: Paper Submission is closed.

01 Oct 2019: [Final Extension] Due to lots of request, Paper Submission Deadline Extended to October 09, 2019.

19 Sep 2019: Paper presentation via SKYPE if requested, can be arranged for outstation /International Authors ONLY

17 Sep 2019: Paper Submission Deadline Extended to September 30,2019.

31 Aug 2019: Paper Submission Deadline Extended to September 16,2019.

14 Aug 2019: Paper Submission has Started.

Programme @ a Glance

Track Chairs

- Prof. (Dr.) Sudeep Thepade , Pimpri Chinchwad College of Engineering, India.
- Prof. (Dr.) R.Meenakshi , Saveetha Engineering College, India.

Day 1: Thursday, 19th December 2019	
Venue: SIC Auditorium, Symbiosis Centre for Information Technology (SCIT)	
9:00 AM - 10:45 AM	Paper Session I Chair: Prof. (Dr.) Sudeep Thepade , Pimpri Chinchwad College of Engineering, Pune, India. Role of Business Intelligence in Data Driven Decision Making Amit Awasthi and Deepika Pandita, <i>Symbiosis Institute of Business Management Pune, SIU, India</i> Contact Center Productivity Improvement based on Predictive Analytics Rishabh Tyagi and Sandeep Bhattacharya, <i>Symbiosis Institute of Business Management Pune, SIU, India</i> Migration from DevOps to DevSecOps - A Complete Framework Nisha T N and Amit Khandekar, <i>Symbiosis Centre for Information Technology, Pune, SIU, India</i> Processing Digital ECG Waveform across selected database to Estimate Heart

News Updates

12 Dec 2019: Paper Presentation Schedule- Visit "Programme" tab

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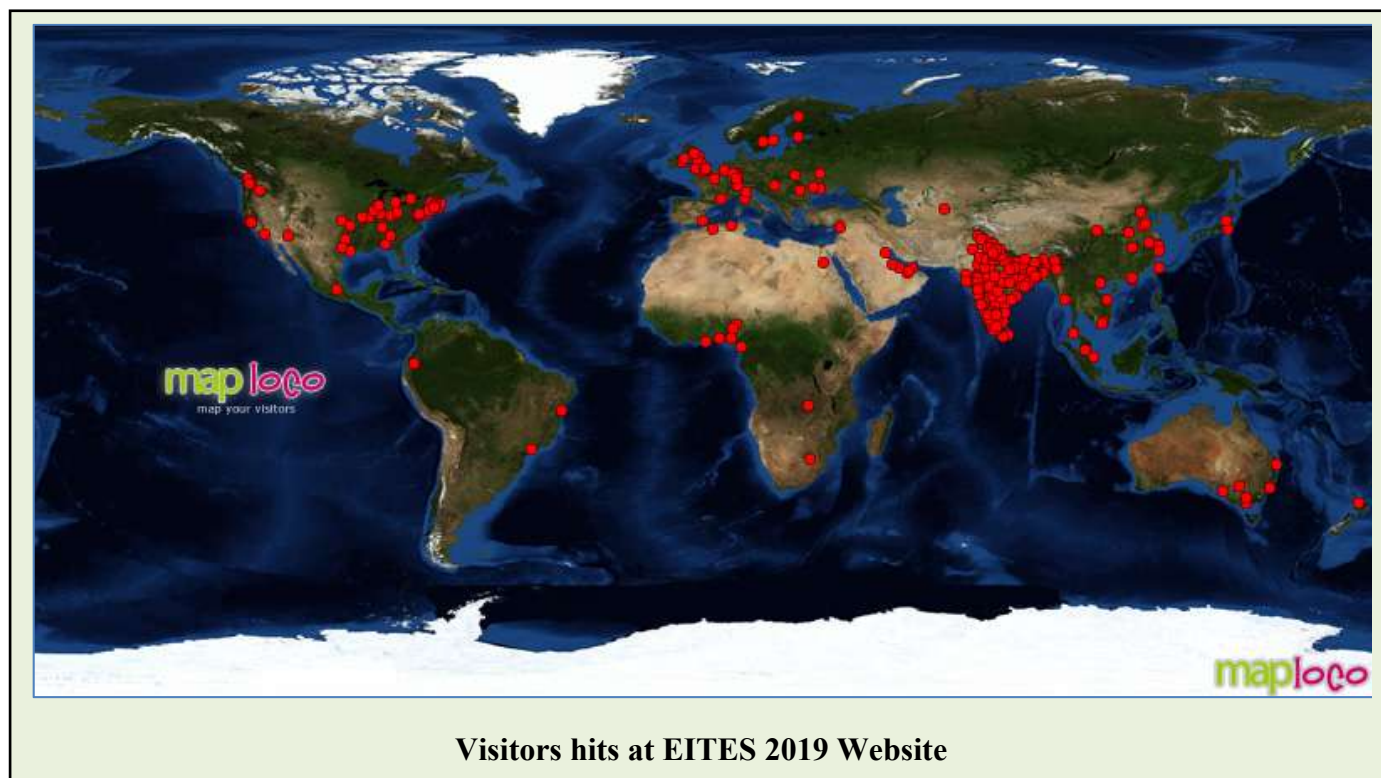
17 Sep 2019: Paper Submission Deadline Extended to September 30,2019.

31 Aug 2019: Paper Submission Deadline Extended to September 16,2019.

14 Aug 2019: Paper Submission has Started.

URL: <https://eites.scit.edu/2019/index.php>

8. Overall Response of the Conference









Our publicity method was able to bring hits from visitors across the globe. Around **4574 visitors** visited till date. Popular country wise hits are as follows:

Popular Countries	
India	4133
United States	145
Germany	23
United Kingdom	18
China	16
Bangladesh	11
Vietnam	9
Ireland	9
Malaysia	9
Japan	7
Australia	6

France	6
Asia/Pacific Region	5
Ukraine	5
Singapore	5
Nigeria	5
Canada	4
Pakistan	4
Switzerland	4
Hong Kong	4
United Arab Emirates	3
Sweden	3
Brazil	3

South Africa	2
Spain	2
Italy	2
Bhutan	2
Algeria	2
Sri Lanka	2
Finland	2
Hungary	2
Belgium	1
Nepal	1
Uzbekistan	1
Egypt	1

 Kuwait	1
 Ghana	1
 Mexico	1
 Romania	1
 New Zealand	1
 Ecuador	1

 Thailand	1
 Saudi Arabia	1
 Taiwan	1
 Qatar	1
 Cameroon	1
 Congo, The Democratic Republic of the	1

 Moldova, Republic of	1
 Myanmar	1
 Turkey	1

Papers by Topic

Topic	Count
Analytics Platforms	3
Application Driven Resource Allocation	1
Automation	11
Block Chain	3
Cloud Computing	3
Cognitive IoT	1
Computer Vision	5
Container based Software Artifacts	1
Cross Cloud Deployment	3
Cyber Intelligence	3
Cyber Intrusion Behavior	1
Data Privacy and Ethics	3
Data Visualization	1
Development Framework for AI applications	2
DevOps	2
Digital Transformation	7
Digitization/Digitalization	4
Dynamic Discovery & Version Management	1
Energy Analytics	1
Governance	4
Graph-based Data Analysis	1
Healthcare Analytics	1
IoT and Analytics	1
Marketing Analytics	4
Mining Software Repositories	1
Online Social Network Analysis	2
Robotics	1
Science and Engineering	8
Smart Cities	3
Smart Manufacturing	1
Software Analytics	1
Supply Chain Analytics	2
Text Analytics and NLP	4

EasyChair Portal

Conference Information	
Acronym of the event:	EITES 2019
Name of the event:	The 3rd International Research Conference on Emerging Information Technology and Engineering Solutions
Web page:	https://eites.sdit.edu/2019
Contact emails:	ajaykumar2@gmail.com
Submission page:	https://easychair.org/conferences/?conf=eites2019
Program committee login page:	https://easychair.org/conferences/?conf=eites2019

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Submission & Review Process

- All paper submissions must be written in **English**.
- Please send your **original research work** related to the conference tracks. Papers should be **original** and **not submitted elsewhere** for publication.
- All papers must be **formatted in standard IEEE 2-column format**. The mandatory IEEE template in Microsoft Word and LaTeX format can be found at the [IEEE templates page](#).
- All papers must be **formatted as per publishers guidelines**..
- Only **Adobe PDF** files will be accepted for the review process. All submissions must be made electronically through **EasyChair**.
- A **maximum paper length is of six (6) printed pages** including figures, tables and references using the publisher's format without incurring additional page charges (maximum 2 additional page with over length page charge are permitted if accepted). Papers **exceeding 8 pages** will not be accepted at EasyChair.
- **Review Process** for the selection of papers will focus on the **technical quality** and **relevance** to the tracks.
- Each paper will be reviewed by **at least 2 reviewers** and **at most by 3 reviewers**

- Papers not following these guidelines will be **rejected without review** and further action may be taken, including (but not limited to) notifications sent to the heads of the institutions of the authors and sponsors of the conference.
- The **verdict of the reviewers shall be final** and no correspondence or appeals shall be entertained.

Research Metrics

- Total Paper Received: **60**
- Papers Accepted for presentation and Publication: **22**
- Acceptance Ratio: $22/60 = 36.67\%$

9. Conference Proceeding



**Faculty of Computer Studies
Symbiosis International (Deemed University)**



**The 3rd International Research Conference
on
Emerging Information Technology and Engineering Solutions
(EITES 2019)**

19-20 December 2019 | SCIT, Pune- India

In Academic Collaboration with



University of Applied Sciences Mainz, Germany

Conference Proceedings

Editors:

Prof. (Dr.) Dhanya Pramod

Prof. (Dr.) Ajey Kumar

ISBN 978-93-5396-566-2

Hosting Institute: Symbiosis Centre for Information Technology, Pune India

Proceedings

**2019 Third International Conference
on Emerging Information Technology
and Engineering Solutions**

EITES 2019

**19-20 December 2019
Pune, Maharashtra, India**



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P-15, MIDC, Rajiv Gandhi Infotech Park, Hinjawadi, Pune - 411 057.

Editorial production by Ajey Kumar
Cover art production by Ajey Kumar



Symbiosis Centre for Information Technology (SCIT)

Constituent of Symbiosis International (Deemed University), Pune, India.

<https://www.scit.edu/>

10. Conference Kit Details given to Delegates

Speakers/Authors

- Jute Bag
- Paper Folder
- Note pad
- Pen
- Final Program & Abstract Booklet
- Feedback Form
- Lunch/Tea & Snacks/Dinner

Attendees

- Jute Bag
- Paper Folder
- Note pad
- Pen
- Final Program & Abstract Booklet
- Feedback Form
- Lunch/Tea & Snacks/Dinner

11. Paper Sessions



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**Emerging Information Technology and Engineering Solutions
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Website: <https://eites.scit.edu/2019/index.php>

Paper Session I

Day 1: Thursday, 19th December 2019

Venue: SIC Auditorium, Symbiosis Centre for Information Technology (SCIT), P-15, Phase I, Hinjewadi, Pune, India

Chair



Dr. Sudeep D. Thepade

Professor Computer Engineering, Pimpri Chinchwad College of Engineering, Pune 411 044, India.
Member Board of Faculty - Science and Technology SPPU; Member Board of Studies -IT SPPU
Ph. D. (Computer Engineering), M.E. (Computer Engg.), B.E. (Computer)

9:00 AM - 10:45AM	<p>Privacy Policy Visualization Vidyavati Ramteke and Ragini Tahiliani, <i>Symbiosis Centre for Information Technology, Pune, SIU, India</i></p> <p>Role of Business Intelligence in Data Driven Decision Making Amit Awasthi and Deepika Pandita, <i>Symbiosis Institute of Business Management Pune, SIU, India</i></p> <p>Contact Center Productivity Improvement based on Predictive Analytics Rishabh Tyagi and Sandeep Bhattacharya, <i>Symbiosis Institute of Business Management Pune, SIU, India</i></p> <p>Migration from DevOps to DevSecOps - A Complete Framework Nisha T N and Amit Khandebharad, <i>Symbiosis Centre for Information Technology, Pune, SIU, India</i></p> <p>Processing Digital ECG Waveform across selected database to Estimate Heart Rate and Heart Rate Variability in MATLAB Falguni Thakker, Jayshree Tailor, Hemraj Lamkuche and Dipashri Sisodiya, <i>Uka Tarsadiya University, Gujarat; Symbiosis International (Deemed University), India</i></p> <p>Student Self-Efficacy and Entrepreneurial Intentions: A Pedagogical View Arpita Sharma, Sunaina Kuknor and Chetan Panse, <i>Symbiosis Institute of Business Management Pune, SIU, India</i></p>
10:45 AM - 11:00AM	TEA BREAK

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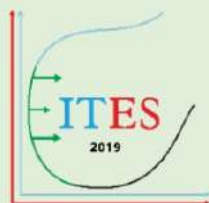


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Website: <https://eites.scit.edu/2019/index.php>

Paper Session II Day 1: Thursday, 19th December 2019 Venue: SIC Auditorium, Symbiosis Centre for Information Technology (SCIT), P-15, Phase I, Hinjewadi, Pune, India	
Chair  Prof. (Dr.) Anett Mehler-Bicher, Dean, School of Business University of Applied Sciences Mainz, Germany.	
5:15 PM - 6:30 PM	Analyzing Impact of Storytelling Advertisements on Consumer Purchase Intention using Marketing Analytics Sujata Joshi, Chanda Barshekee and Amit Bais, <i>Symbiosis Institute of Digital and Telecom Management, SIU, Pune, India</i> Industry 5.0 : Human Touch and the Future Dharmesh K Mishra and Dipen Paul, <i>Symbiosis Institute of International Business, SIU, Pune, India</i> Intelligent Digital Intermediation Solution: Exploring Growth Potential with Analytics Neha Vivek Dharurkar and Ramakrishnan Raman, <i>Symbiosis International (Deemed University) Pune, India</i> New Age Use Cases and Solutions for Digital Transformation in the Retail Sector Runali Mehta and Mandaar Bhaskar Pande, <i>Symbiosis Centre for Information Technology, Pune, SIU, India</i>
6:30 PM - 9:00 PM	Cultural Program by EKLAVYA & SYMBEATS followed by Dinner

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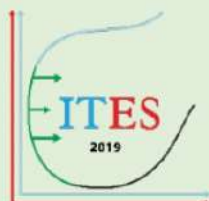


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Website: <https://eites.scit.edu/2019/index.php>

Paper Session III

Day 2: Friday, 20th December 2019

Venue: SIC Auditorium, Symbiosis Centre for Information Technology (SCIT), P-15, Phase I, Hinjewadi, Pune, India

Chair



Prof. (Dr.) Gunther Piller, *University of Applied Sciences Mainz, Germany*

9:00 AM - 10:45AM

E-MODI: E-Governance Model using Open Distributed Infrastructure

Vijaya Bhaskar Kondaveety, Vijaya Lakshmi Sapparam, Shruti Singh, Raj Rajpurkar and Hemraj Lamkuche, *Symbiosis Centre for Information Technology, Pune, SIU; Symbiosis International (Deemed University) Pune, India*

Robo-Advisory Services In India: A Study To Analyze Perception of Millennials

Arti Chandani, S. Sriharshitha, Ankita Bhatia, Mita Mehta and Rizwana Atiq, *Symbiosis Institute of Management Studies, SIU, Pune; Integral University, Lucknow, India*

Marketing Analytics for Analysing Social Media and Branding Efforts of Indian Telecom Operators

Sujata Joshi, Sindhu Kopparati and Vaishali Singhal, *Symbiosis Institute of Digital and Telecom Management, SIU, Pune, India*

Separation of Printed and Non-Printed Sections using Modified Global Threshold approach from Medical Prescription Document Images

Gururaj Mukarambi, Jatinder Kumar R Saini and Hema Gaikwad, *Central University of Karnataka, India; Symbiosis Institute of Computer Studies & Research, SIU, Pune, India*

Futuristic Role of Big Data in Managing OTT

Pradnya Purandare, Samaya Pillai, Rahul Dhaigude and Minal Abhyankar, *Symbiosis Centre for Information Technology, Pune, SIU; Symbiosis Institute of Digital and Telecom Management, SIU; Symbiosis Institute of Management Studies, SIU; Symbiosis Institute of Computer Studies & Research, SIU, Pune, India*

Question Generation Using Sequence to Sequence Network

Rohan R. Tipare and Yashodhara V. Haribhakta, *College of Engineering Pune, India*

10:45 AM - 11:00AM

TEA BREAK

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Symbiosis International (Deemed University), India



SYMBIOSIS
CENTRE FOR INFORMATION TECHNOLOGY



The 3rd International Research Conference
on

Emerging Information Technology and Engineering Solutions
(EITES 2019)

19-20 December 2019 | SCIT, Pune- India

Website: <https://eites.scit.edu/2019/index.php>

Paper Session IV

Day 2: Friday, 20th December 2019

Venue: SIC Auditorium, Symbiosis Centre for Information Technology (SCIT), P-15, Phase I, Hinjewadi, Pune, India

Chair



Prof. (Dr.) R. Meenakshi,

*Associate Professor, Dept of Information Technology, Saveetha Engineering College,
Saveetha Nagar, Thandalam, Chennai - 602105. Saveetha Engineering College, India.*

<p>12:00 PM - 1:00 PM</p>	<p>To be or Not to be on Social Media? Analysis using Tragedy of Commons Aniruddha Joshi, Madhura Ranade and Paritosh Bedekar, <i>SP Pune University; Symbiosis Institute of International Business, SIU, Pune, India</i></p> <p>Gamification and Q-learning for Motivation of User Participation on Crowdsourcing Platform Vijayalakshmi Anand and Chittaranjan Hota, <i>BITS-Pilani off-Campus Center, Pune; BITS –Pilani Hyderabad Campus Hyderabad, India</i></p> <p>Acquisition of Information in Traffic Video using Multi-layer Continuous Virtual Loop (MCVL) Model Manipriya Sankaranarayanan, Mala C and Samson Mathew, <i>National Institute of Technology, Tiruchirappalli, India</i></p>
<p>1:00 PM - 2:00 PM</p>	<p>LUNCH</p>

In Academic Collaboration with



**WIRTSCHAFT
HOCHSCHULE MAINZ**
UNIVERSITY OF
APPLIED SCIENCES

University of Applied Sciences Mainz, Germany



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Paper Session V

Day 2: Friday, 20th December 2019

Venue: SIC Auditorium, Symbiosis Centre for Information Technology (SCIT), P-15, Phase I, Hinjewadi, Pune, India

Chair



Prof. (Dr.) Bernhard Ostheimer, University of Applied Sciences Mainz, Germany.

3:00 PM – 4:15 PM	<p>Towards Reducing Bullwhip Effect in Supply Chain Management Using Blockchain Technology Mukesh Kumar Rohil and Srujana N, <i>Birla Institute of Technology and Science, Pilani, India</i></p> <p>An Ontology Framework for Cyber Security in Disrupted Technology Prasenjit Sen, <i>Symbiosis Centre for Information Technology, Pune, SIU, India</i></p> <p>Transforming Customer Experience in the Digital Transformation Neelesh Kumbhojkar and Arun Menon, <i>Symbiosis Centre for Alumni Engagement, SIU; Jade Global Software Pvt Ltd, Pune, India</i></p>
4:15 PM – 4:30 PM	TEA BREAK

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The paper presentations were divided into five sessions. The duration of each presentation was of 15-20 mins. Out of twenty two accepted papers, twenty one papers were presented and one didn't turn up.

12. Best Paper Award

EITES 2019 had the Best Paper Award Category. The panel of judges were:

- **Dr. SVK Bharathi**, *Professor*, Symbiosis Centre for Information Technology, India.
- **Dr. Anil Jadhav**, *Associate Professor*, Symbiosis Centre for Information Technology, India.



The prize amounts were:

- Best Paper Award : **Rs 10000.00**

The Parameters that were taken into considerations by the judges for evaluating each of paper presenters was: Clarity in Research Problem, Methodology – Robustness, Findings and Justification, Usefulness to the Discipline, and Overall Presentation.

Best Paper Award:

Paper ID 40: Acquisition of Information in Traffic Video using Multi-layer Continuous Virtual Loop (MCVL) Model

Manipriya Sankaranarayanan, Mala C and Samson Mathew, *National Institute of Technology, Tiruchirappalli, India*



Manipriya receiving the *Best Paper Award Certificate* and the *cheque of Rs 10000* as prize money from **Dr. Anett Mehler-Bicher & Dr. Dhanya Pramod**

13. Valediction Ceremony

The valediction ceremony was the concluding event of EITES 2019. The certificates of presentation were given to each author who presented their papers. The Authors were honored with their presentation certificates by Dr. Anett Mehler-Bicher , Dr. Dhanya Pramod, Dr. SVK Bharathi, Dr. Anil Jadhav , and Dr. Gunther Piller.



Authors receiving their Certificate of Presentation

Best Paper Awards were also given. After the awards, thanksgiving was given by **Dr. Gunther Piller** on behalf of *University of Applied Sciences Mainz, Germany*.



Followed by vote of thanks given by **Dr. Ajey Kumar**, *Programme Chair EITES 2019*.



The Conference was declared closed thereafter.

14. Fund Procurement, Sponsorship and Collaboration



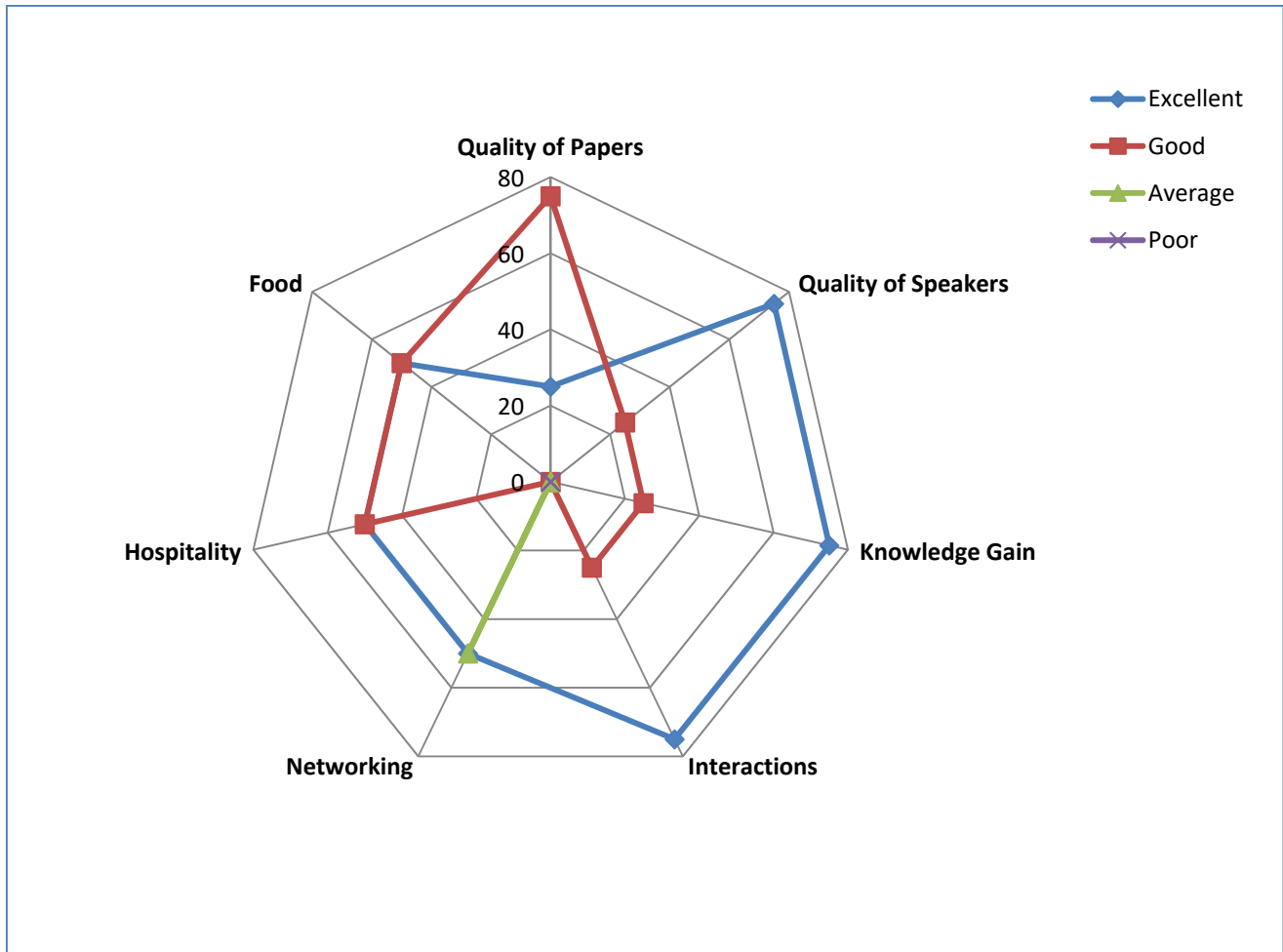
The *main funding* was given by Symbiosis International (Deemed University).



***Academic Collaborative Partner:* University of Applied Sciences Mainz, Germany.**

15. Feedback and its Analysis

For any event feedback is the best way to analyze and the event. The feedback was taken on seven parameters: **Quality of Papers, Quality of Speakers, Knowledge Gain, Interactions, Networking, Hospitality and Food**. Each of these parameters was evaluated for **Excellent, Good, Average and Poor**. Following are summary of response received for each component:



For most of the parameters the feedback is within Good to Excellent. The networking parameter responses was also given for Average. The specific comments received are as follows:

- Overall, everything is well organized, so excellent
- More time for paper presentation.
- The publicity should be initiated much before the time. Given more time, we may have two phases of paper submission.

Logistics & Refreshments

EITES organizing committee along with volunteers did a commendable job for providing logistics to the guest and participants. For guest and invited speakers, to & fro Air travel and their accommodation in Five to three star hotels were provided. Dedicated local convenience was also provided to each one of them.

.In refreshments, Tea with snacks twice a day and lunches were provided for all conference days. On 19th December 2019, we had a cultural program by team Eklavya & Symbeat, an initiative of SCIT students followed by Dinner.

Learning from the Conference

- International Collaboration is always helpful.
- Good Publication Opportunities attracts quality papers.
- Good Quality Speakers builds the brand image of the conference
- Combination of Speakers and paper presenters leads to good quality of learning's.
- Good Conference committee helps in smooth execution of the conference at all stages.
- Good Review Committee helps in the selection of Quality papers as well as excellent reviews which the authors can use to enhance / improve their work.

Innovative Methods used in Conference

- Conference Management System- EasyChair for managing submission of papers, review of papers, selection of papers, communication with authors and the reviewers, and for disseminating call for papers.
- Use of Visitors Map in the website to know the popularity.
- Use of Social media sites LinkedIn, Facebook for promotions.
- Recommendation of Extended Version in Two exclusive Special Issues (SI) in SCOPUS/WoS indexed International Journal for papers accepted in EITES 2019

Marketing method employed for conference

- Marketing was done through emails (with our internal database of contacts), through EasyChair and through conference website.

Shortcomings of the conference

- Publicity strategy needs to start very early in order to attract more submissions/ audience/ attendees.
- Need to get more sponsorship for providing Student Travel Grant.

Appendix- 1: Conference Programme

Day 1: Thursday, 19th December 2019	
Venue: SIC Auditorium, Symbiosis Centre for Information Technology (SCIT), P-15, Phase I, Hinjewadi, Pune, India	
9:00 AM - 10:45AM	<p>Paper Session I</p> <p>Chair: Prof. (Dr.) Sudeep Thepade, <i>Pimpri Chinchwad College of Engineering, Pune, India</i></p> <p>Role of Business Intelligence in Data Driven Decision Making Amit Awasthi and Deepika Pandita, <i>Symbiosis Institute of Business Management Pune, SIU, India</i></p> <p>Contact Center Productivity Improvement based on Predictive Analytics Rishabh Tyagi and Sandeep Bhattacharya, <i>Symbiosis Institute of Business Management Pune, SIU, India</i></p> <p>Migration from DevOps to DevSecOps - A Complete Framework Nisha T N and Amit Khandebharad, <i>Symbiosis Centre for Information Technology, Pune, SIU, India</i></p> <p>Processing Digital ECG Waveform across selected database to Estimate Heart Rate and Heart Rate Variability in MATLAB Falguni Thakker, Jayshree Tailor, Hemraj Lamkuche and Dipashri Sisodiya, <i>Uka Tarsadiya University, Gujarat; Symbiosis International (Deemed University), India</i></p> <p>Student Self-Efficacy and Entrepreneurial Intentions: A Pedagogical View Arpita Sharma, Sunaina Kuknor and Chetan Panse, <i>Symbiosis Institute of Business Management Pune, SIU, India</i></p> <p>Privacy Policy Visualization Vidyavati Ramteke and Ragini Tahiliani, <i>Symbiosis Centre for Information Technology, Pune, SIU, India</i></p>
10:45 AM - 11:00AM	TEA BREAK
11:00 AM - 11:45 AM	<p>Inauguration and Address by</p> <p>Dr. S.B. Mujumdar, <i>Founder & President, Symbiosis & Chancellor, Symbiosis International (Deemed University), Pune, India</i></p> <p>Dr. Vidya Yeravdekar, <i>Pro Chancellor, Symbiosis International (Deemed University) & Principal Director, Symbiosis, Pune, India</i></p> <p>Dr. Rajani Gupte, <i>Vice Chancellor, Symbiosis International (Deemed University), Pune, India</i></p> <p>Dr. Dhanya Pramod, <i>Dean FoCS, Symbiosis International (Deemed University), Pune, India & Director, Symbiosis Centre for Information Technology, Pune, India</i></p>
11:45 AM - 12:15PM	<p>Address by Chief Guest</p> <p>Mr. Sanjeev Nikore, <i>Growth Strategist, Ex-President Strategic Initiatives Tech Mahindra, India</i></p>

12:30 PM - 1:15 PM	Keynote I: Educational Technology- Some Perspectives Dr. M. Sasikumar , <i>Executive Director , CDAC, Mumbai, India</i>
1:15 PM - 2:00 PM	LUNCH
2:00 PM - 3:00PM	Keynote II: Augmented and Virtual Reality: Categorization of Application Prof. (Dr.) Anett Mehler-Bicher , <i>Dean, School of Business University of Applied Sciences Mainz, Germany.</i>
3:00 PM - 4:00 PM	Keynote III: IT enabled Engineering Process Mr. Amit K. Pandey , <i>Technical Director- Telematics, Cummins, India</i>
4:00 PM - 4:15 PM	TEA BREAK
4:15 PM - 5:15 PM	Keynote IV: IT Innovation Adoption: Strategies and System Design Prof. (Dr.) Gunther Piller , <i>Vice Dean, School of Business University of Applied Sciences Mainz, Germany.</i>
5:15 PM - 6:30 PM	<p style="text-align: center;">Paper Session II</p> <p style="text-align: center;">Chair: Prof. (Dr.) Anett Mehler-Bicher, <i>University of Applied Sciences Mainz, Germany</i></p> <p>Analyzing Impact of Storytelling Advertisements on Consumer Purchase Intention using Marketing Analytics Sujata Joshi, Chanda Barshekee and Amit Bais, <i>Symbiosis Institute of Digital and Telecom Management, SIU, Pune, India</i></p> <p>Industry 5.0 : Human Touch and the Future Dharmesh K Mishra and Dipen Paul, <i>Symbiosis Institute of International Business, SIU, Pune, India</i></p> <p>Intelligent Digital Intermediation Solution: Exploring Growth Potential with Analytics Neha Vivek Dharurkar and Ramakrishnan Raman, <i>Symbiosis International (Deemed University) Pune, India</i></p> <p>New Age Use Cases and Solutions for Digital Transformation in the Retail Sector Runali Mehta and Mandaar Bhaskar Pande, <i>Symbiosis Centre for Information Technology, Pune, SIU, India</i></p>
6:30 PM - 9:00 PM	<p style="text-align: center;">Cultural Program by EKLAVYA & SYMBEATS</p> <p style="text-align: center;">followed by Dinner</p>

Day 2: Friday, 20th December 2019

Venue: SIC Auditorium, Symbiosis Centre for Information Technology (SCIT), P-15, Phase I, Hinjewadi, Pune, India

9:00 AM - 10:45 AM	<p style="text-align: center;">Paper Session III</p> <p style="text-align: center;">Chair: Prof. (Dr.) Gunther Piller, University of Applied Sciences Mainz, Germany</p> <p>Robo-Advisory Services In India: A Study To Analyze Perception of Millennials Arti Chandani, S. Sriharshitha, Ankita Bhatia, Mita Mehta and Rizwana Atiq, <i>Symbiosis Institute of Management Studies, SIU, Pune; Integral University, Lucknow, India</i></p> <p>Marketing Analytics for Analysing Social Media and Branding Efforts of Indian Telecom Operators Sujata Joshi, Sindhu Kopparati and Vaishali Singhal, <i>Symbiosis Institute of Digital and Telecom Management, SIU, Pune, India</i></p> <p>E-MODI: E-Governance Model using Open Distributed Infrastructure Vijaya Bhaskar Kondaveety , Vijaya Lakshmi Sapparam, Shruti Singh, Raj Rajpurkar and Hemraj Lamkuche, <i>Symbiosis Centre for Information Technology, Pune, SIU; Symbiosis International (Deemed University) Pune, India</i></p> <p>Separation of Printed and Non-Printed Sections using Modified Global Threshold approach from Medical Prescription Document Images Gururaj Mukarambi, Jatinder Kumar R Saini and Hema Gaikwad, <i>Central University of Karnataka, India; Symbiosis Institute of Computer Studies & Research, SIU, Pune, India</i></p> <p>Futuristic Role of Big Data in Managing OTT Pradnya Purandare, Samaya Pillai, Rahul Dhaigude and Minal Abhyankar, <i>Symbiosis Centre for Information Technology, Pune, SIU; Symbiosis Institute of Digital and Telecom Management, SIU; Symbiosis Institute of Management Studies, SIU; Symbiosis Institute of Computer Studies & Research, SIU, Pune, India</i></p> <p>Question Generation Using Sequence to Sequence Network Rohan R. Tipare and Yashodhara V. Haribhakta, <i>College of Engineering Pune, India</i></p>
10:45 AM - 11:00 AM	TEA BREAK
11:00 AM - 12:00 PM	<p>Keynote V: Industry Use Cases and Solutions using AI and Machine Learning Mr. Sanjay Nambiar, Vice-President, Wipro HOLMES, India</p>
12:00 PM - 1:00 PM	<p style="text-align: center;">Paper Session IV</p> <p style="text-align: center;">Chair: Prof. (Dr.) R. Meenakshi, Saveetha Engineering College, India</p> <p>To be or Not to be on Social Media? Analysis using Tragedy of Commons Aniruddha Joshi, Madhura Ranade and Paritosh Bedekar, <i>SP Pune University; Symbiosis Institute of International Business, SIU, Pune, India</i></p> <p>Gamification and Q-learning for Motivation of User Participation on Crowdsourcing Platform Vijayalakshmi Anand and Chittaranjan Hota, <i>BITS-Pilani off-Campus Center , Pune; BITS –Pilani Hyderabad Campus Hyderabad, India</i></p>

	Acquisition of Information in Traffic Video using Multi-layer Continuous Virtual Loop (MCVL) Model Manipriya Sankaranarayanan, Mala C and Samson Mathew, <i>National Institute of Technology, Tiruchirappalli</i> , India
1:00 PM - 2:00 PM	LUNCH
2:00 PM - 3:00 PM	Keynote VI: TextSense: Advanced Text Analytics platform-Internals and Business Use Cases Dr. Aniruddha Pant , <i>CEO, AlgoAnalytics Pvt. Ltd, Pune</i> , India
3:00 PM – 4:15 PM	<p style="text-align: center;">Paper Session V</p> <p style="text-align: center;">Chair: Prof. (Dr.) Bernhard Ostheimer, <i>University of Applied Sciences Mainz, Germany</i></p> Towards Reducing Bullwhip Effect in Supply Chain Management Using Blockchain Technology Mukesh Kumar Rohil and Srujana N, <i>Birla Institute of Technology and Science, Pilani</i> , India An Ontology Framework for Cyber Security in Disrupted Technology Prasenjit Sen, <i>Symbiosis Centre for Information Technology, Pune, SIU</i> , India Transforming Customer Experience in the Digital Transformation Neelesh Kumbhojkar and Arun Menon, <i>Symbiosis Centre for Alumni Engagement, SIU; Jade Global Software Pvt Ltd, Pune</i> , India
4:15 PM - 4:30 PM	TEA BREAK
4:30 PM - 5:30 PM	Valediction Ceremony

Appendix-2: Gant Chart / Conference Schedule for activities conducted

Time line	Activities
Oct – Dec 2018	Planning, Concept Note Finalization, Booking of SIC Auditorium- The venue
January 2019	Preparation of Budget
January 2019	Formation of Committees
January 2019	Designing of Website
January 2019	Academic Collaboration with University of Applied Sciences Mainz , Germany
February 2019	Search for Publication Partner
March 2019	Conference Proposal preparation and sent to Vice Chancellor for Approval
April 2019	Approval Granted
April 2019	Signed Contract with Conference Management system- EasyChair
May 2019	Completed Configuration of EasyChair
May-June 2019	Initiated communication with Editor of Scopus/WoS Journals for Special Issue
June 2019	Started sending Call for Papers
July 2019	Identifying & Inviting Chief Guest and Keynote Speakers
August 2019	Call for Papers with extended date
September 2019	Paper Submission Closed, Review Process Started
October 2019	Declaration of Results plus notification for revisions
November 2019	Review Process closed, Declaration of Results
November 2019	Camera Ready Paper Submission
November 2019	Registration Started
November 2019	Started sending Call for Participation
November 2019	Booking Air-Tickets and Accommodation for Speakers
November 2019	Planning of Local Arrangement Activity
November 2019	Designing of Baners, posters, Badges, Certificates, Final Program and Abstract etc
November 2019	Finalization of Conference Kit
December 2019	Finalization of Programme Schedule
December 2019	Finalization of Volunteers and EKLAVYA/SYMBEATS Program
December 2019	Applied for ISBN at Raja Ram Mohan Roy National Agency for ISBN
January 2020	Approval Received from Raja Ram Mohan Roy National Agency for ISBN
Feb-March 2020	EITES 2019 Conference Proceeding- Preparation, Formatting & Finalization
April 2020	Conference Report Preparation & Finalization
April – May 2020	Extended Version paper Notification & Submission in Special Issue & Other SCOPUS/WoS Journals

ETES 2019

Faculty of Computer Studies Symbiosis International (Deemed University) Thanks



Chief Guest, Keynote Speakers, Paper presenters, Committee Members, Academic Collaborators, Volunteers & All Participants

With the enlightened mind...



.....the journey continues...