

"Recent Trends in Engineering and Technology"- VISHWACON 2021"



4th International Virtual Conference
On

"Recent Trends in Engineering and Technology"

27th & 28th November 2021
www.vishwacon.in

Organized By



Bansilal Ramnath Agarwal Charitable Trust's

VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY

Autonomous Institute affiliated to Savitribai Phule Pune University,
NBA Accredited, Accredited by NAAC with 'A' Grade,
ISO 9001:2015 Certified Institute, Approved by AICTE, New Delhi
Survey No. 3/4 Kondhwa (Budruk), Pune 411 048, INDIA.
Tel: (+91) 020-26950 451, 452, 453 Website: www.viit.ac.in



About Conference

VIIT is taking initiative for networking researchers by organizing seminars, focused short-term training programs and conferences every year. Research wing, VIIT organizes a conference every year to collaborate with researchers and to provide the opportunity to present their valuable work. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of engineering and technology. The pandemic of COVID 19 is affecting the lives, setting new sets of challenges and opportunities, too by setting a new-normal of meetings, conferences and lifestyle demands. Considering the challenges, we encourage authors to participate in online mode, which shall provide an opportunity to meet on virtual platforms and to accommodate more and more.

About Organising Institute

Vishwakarma Institute of Information Technology (VIIT) was founded in 2002 to impart world class education and to develop useful manpower with entrepreneurship qualities for industries. It is an autonomous Engineering Institute affiliated to Savitribai Phule Pune University, Pune. It is recognized and approved by All India Council of Technical Education (AICTE), New Delhi. VIIT is an ISO 9001-2015 certified institute. VIIT has received "Gold" rating in AICTE-CII survey of Industry Linked Technical Institutes 2018. As per the GHRDC-CSR Engg. College survey 2019, VIIT is ranked 7th in Top Engineering Colleges by state and has been ranked 25th outstanding Engineering College of excellence in India. As per the Times Best Engg. Institute Survey 2019, VIIT has been ranked 67th in Private Engineering Institute and has 81 overall ranking in India. VIIT ranked in band 251-300 in NIRF 2020.

Publication

Selected papers of the conference will be considered for publication in scopus / web of science volumes identified by organizers. Dependent on the area of paper and content, experts will recommend a suitable volume for publication. Selected papers of the conference from core engineering are to be published in Apple Academic Press - CRC press book, "Smart innovations and Technological Advancements in Civil and Mechanical Engineering" a Taylor-Francis Group publication. Selected papers of the conference from computer and circuit domains are to be published in CRC press book, "Artificial Intelligence in Information and Communication Technologies, Healthcare and Education: A Roadmap Ahead". These will be special issues of the book series from AAP-CRC. Selected papers of the conference from circuit domains will be considered for CRC and Springer Book Series.

KEYNOTE SPEAKERS



Prof. Nilanjan Dey
Guest of Honor
Associate Professor,
Dept. of Computer Science & Engg.
JIS University, Agarpara, Kolkata, India



Prof. Andrew Taberner
Physicist & Professor,
Auckland Bioengineering Institute,
New Zealand



Prof. Catarina Alexandra Pinto Moreira
Professor,
Queensland University of Technology,
Brisbane, Australia



Prof. Naveen Kwatra
Professor, Civil Engineering
Thapar Institute of Engineering &
Technology, Patiala, Punjab, India



Prof. Earlene T. Fernandes
Professor, Dept. of Computer Sciences,
University of Wisconsin-Madison,
Madison, WI, USA



Prof. Luminita Moraru
Professor, Department of Physics,
Dunarea de Jos University of Galati,
Galati, Romania

About AI & DS

Artificial Intelligence (AI) an interdisciplinary science with multiple approaches and Data Science (DS) is the field of study which encompasses various roles such as data analysts, decision scientists and business intelligence developers. As data is the main oil for every application, DS is helpful for students to draw meaningful insights from big data and acquire skill-sets to deal with numerous real time applications in this field. Since last decade, AI and DS witnessed tremendous growth and dramatic breakthrough innovations applied in almost every sector. Recently, new education reforms introduced AI learning right from school education. Successful MNCs like Google, Amazon, Facebook, Flipkart, twitter etc. use various AI and DS techniques to discover patterns and trends in user's data and behavior. Various banking and financial companies like Barclays, HDFC, Citi Bank, Morgan Stanley, Avaya etc. use AI and DS techniques for risk analysis, share market trends analysis, and investment banking.

The department programme is autonomous and utilizing this opportunity, the course curriculum is meeting contemporary industry needs. This programme is a perfect blend of AI and DS and their applications in real world problem solving as well as business intelligence. This course has comprehensive coverage of fundamentals of computer engineering along with cross disciplinary skills like statistics, mathematical and logical reasoning, knowledge discovery, visualization, big data analytics etc. Overall the program curriculum is designed in a way that imparts core and necessary skills required in the domain. This specialized course opens many career avenues for aspirants in healthcare, finance, astronomy, agriculture, data security, entertainment, E-commerce, social networking, climatology, biotechnology, genetics, and many more.

The department is offering undergraduate programme with an intake of 180. Self-motivated, strong and high performing faculty are engaged in mentoring students and guiding them to realise their potential and become good ambassadors of the department and in turn institute.



VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, Pune 48

"Recent Trends in Engineering and Technology"- VISHWACON 2021"

CHIEF GUEST

Dr. Manohar Chaskar
Dean Faculty of Science &
Technology, SPPU, Pune



CHIEF PATRON

Hon. Shri. Rajkumar Agarwal Chairman,
BRACT, Pune

Hon. Shri. Bharat Agarwal Managing Trustee,
BRACT, Pune

Prof. (Dr.) Nitin R. Karmalkar
Vice Chancellor
Savitribai Phule Pune University, Pune

PATRON

Dr. B. S. Sule
Chief Executive Officer,
Vishwakarma Institutes.

Dr. Vivek S. Deshpande
Director,
VIIT, Pune

ADVISORY COMMITTEE

Dr. B. S. Karkare
Ex-Director, VIIT, Pune
Dr. S. N. Londhe
Prof. Civil Engg, VIIT &
Chairman, BoS Civil, SPPU
Dr. D. S. Bormane
Chairman, BoS Elec., SPPU
Dr. R. M. Jalnekar
Director, VIT, Pune
Dr. A. R. Patil
Principal, VCACS, Pune
Dr. Y. H. Dandawate
Dean - QA, VIIT
Dr. C. S. Garde
Prof. Engg. Sciences, VIIT
Dr. T. R. Jadhav
Dean - Examination, VIIT

Dr. Aditya Abhyankar
Chairman, IT & Head DOT, SPPU
Dr. Sujit Pardesh
Chairman, BoS Mechanical Engg,
SPPU
Dr. Varsha Patil
Chairman, BoS Comp, SPPU
Dr. Siddharth Jabade
Vice - Chancellor, VU, Pune
Dr. A. V. Chitre
Dean - Academics, VIIT
Dr. A. P. Kulkarni
Dean - Industrial Relations, VIIT
Dr. Mandar Karyakarte
Dean - Finance, VIIT
Dr. Jayshree Bagade
Dean - Student Affair, VIIT

CONVENER

Dr. Vivek S. Deshpande
Director, VIIT, Pune

Dr. Rajendra Talware
Conference Chair

Dr. Ashok Mache
Conference Co-Chair

Dr. Parikshit Mahalle
Technical Chair

Dr. Varsha Jadhav
Conference Coordinator

ORGANIZING COMMITTEE

Dr. Shilpa Patil (Head, Dept. of Civil Engg.)
Dr. Sachin Sakhare (Head, Dept. of Comp Engg.)
Dr. Shailesh Kulkarni (Head, Dept. of E&TC Engg.)
Dr. Pravin Futane (Head, Dept. of IT Engg.)
Dr. Dinesh Kamble (Head, Dept. of Mech Engg.)
Dr. Vaishali Patil (Head, Dept. of Engg. Sci. Dept.)

COORDINATING COMMITTEE

AI&DS **Dr. Varsha Jadhav** 9373482432
varsha.jadhav@viit.ac.in
COMP. **Ms. V. S. Gaikwad** 7218968723
vidya.gaikwad@viit.ac.in
E&TC **Mrs. M. S. Deshmukh** 9850035005
minal.deshmukh@viit.ac.in
IT **Dr. Manohar Kodmelwar** 9657073048
manohar.kodmelwar@viit.ac.in
MECH **Prof. Nitin Ambhore** 7722004925
nitin.ambhore@viit.ac.in
CIVIL **Dr. Pradnya R. Dixit** 9545452787
pradnya.dixit@viit.ac.in
Engg. Sci. **Mrs. Ashwini Thakare** 9764004470
ashwini.thakare@viit.ac.in

For more details about the conference, please
visit : <http://vishwacon.in>
For any query, Please write mail on :
vishwacon@viit.ac.in

IMPORTANT DATES

Paper Submission Due : **10th Nov. 2021**
Notification for Acceptance : **15th Nov. 2021**
Registration deadline : **22th Nov. 2021**
Date of Conference : **27th & 28th Nov. 2021**

CALL FOR PAPERS

Please ensure your submission meets the conference's strict guidelines for accepting scholarly papers. Downloadable versions of the checklist for full-text papers along with templates are available on the conference website. The conference invites papers in the following domains/tracks but not limited to:

- Track-I:** Convergence of AI, IoT & Communication Technologies for Futuristic Innovations.
Track-II: Advances in Sensor and Chip design, Controls, Communication and Signal Processing.
Track-III: Artificial Intelligence in Healthcare and Agriculture, Education, Future Mobility.
Track-IV: Data Science and Analysis for Business and Enterprise.
Track-V: Materials and Manufacturing Engineering, Construction Technology.
Track-VI: Design Engineering, Automation and Electric Vehicle Technology.
Track-VII: Thermal and Fluid Engineering.
Track-VIII: Structural Engineering.
Track-IX: Environmental and Water Resources Engineering.

Authors are kindly invited to submit their formatted full papers including results, tables, figures, and references.
Paper Submission Link :

<https://easychair.org/conferences/?conf=vishwacon2021>

REGISTRATION

Student/Research Scholar (Indian Authors)	Rs.1500
International Student/Research Scholar	\$ 40
Industry Person/Academicians (Indian Authors)	Rs.3000
International Industry Person/Academicians	\$ 50
Participant (Indian)	Rs.500
Participant (International)	\$ 20

BANK	Punjab National Bank
BRANCH	PUNE-FC-Road
ACCOUNT NUMBER	10881011001265
IFSC CODE	PUNB0108810



VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, Pune 48