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## LOGISTICS

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## ABOUT JODHPUR

Jodhpur the "SUN CITY", set at the edge of the 'THAR DESERT', is the second largest city of Rajasthan State. Founded in the year 1459 A.D. by Rao Jodha, the city has a very rich cultural heritage and well preserved historical monuments. Jodhpur is connected to all major cities of India by air and train directly or via Delhi, Mumbai and Ahmedabad. The Sun City is well-connected by roads to all cities and places of tourist interest in Rajasthan.



## National Conference

On

“ New Advances in Theoretical Computer Science,  
Algorithms, and Mathematical Modeling”

&

29th Annual Conference of Rajasthan Ganita Parishad

27-28 April, 2018



Organized By :

Department of Computer Science & Engineering

And

Department of Mathematics (Applied Sciences)  
JODHPUR INSTITUTE OF ENGINEERING & TECHNOLOGY

JIET Group of Institutions, Jodhpur

Sponsors & Promoters :



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## ABOUT THE CONFERENCE

The conference on New Advances in Theoretical Computer Science, Algorithms and Mathematical Modeling aims to explore and share the progress being made in these areas. The field of theoretical computer science belong to theoretical analysis of computing, securities, communication etc. and draws the conclusion like how much the systems are reliable, how the computation is fundamentally carried out, etc.

Over the years lot of advancement has taken in the areas of algorithms, and a whole new generation of algorithms have emerged since the arrival of internet and [www](http://www). The conference will focus on these areas, to have deliberations in the major themes given in this brochure.

Various themes in mathematical modeling will focus on those aspects of mathematics which are closely relevant to computer science. In the recent past whole lot of areas, earlier considered as specific to maths domain, now belong to Computer Science, for example how the things can be computed, what are the mathematical modes of computing and like the universal programming language  $\lambda$  - Calculus, etc.

The conference, has also the another joint conference "29th Annual Conference of Rajasthan Ganita Parishad", to futher boost the role of mathematical theories in computer science.

## PREVIOUS CONFERENCES @ JIET

1. ICCET'10 was the first International Conference on Computer Engineering & Technology held at JIET on November 2010.
2. ICSFA - 2011 a joint conference by Department of Applied Sciences, JIET Jodhpur & Department of Mathematics, JNVU Jodhpur was held on July 2011.
3. ETRASCT'14 International Conference on Emerging Trends of Research in Applied Sciences & Computational Techniques held at JIET on 21-22 February, 2014.
4. ETRASECT'15 National Conference on Emerging Trends of Research in Applied Sciences, Experimental & Computational Techniques held at JIET on 20-21 February, 2015.
5. ETRASECT'16 2nd National Conference on Emerging Trends of Research in Applied Sciences, Experimental and Computational Techniques held at JIET on 26-27 February, 2016.

## ABOUT JIET GROUP OF INSTITUTIONS

JIET Group Of Institutions (JGI) is one of the India's leading educational group, producing some of India's most employable professionals. JGI provides unique and supportive environment to learn and grow in different situations. Sprawling over 25 acres in Mogra amidst lush green surrounding, it is situated near Jodhpur. It has an international reputation for excellence in work relevant education and high quality research, which is relevant to the needs of industry and community. Established in 2003, Jodhpur Institute of Engineering & Technology (JIET), the flagship college is accredited by NBA, ranks in Top 3, among the 'A' Grade College under RTU, has PhD & PG programme in four branches. JIET is located at Mogra, Jodhpur, having 3000+ students and proportionately qualified & competent faculty.

## CALL FOR PAPERS

Researchers, Professional and Research scholars are invited to present their original and unpublished work and can share their experiences in the form of technical papers in the conference. The focus of this conference will be on, but not limited to the following major areas, in three major themes:

## Track A: Theoretical Computer Science

- Theory of Computation
- Natural Language Processing
- Neural Networks
- Data Compression
- Machine Learning
- Cryptography
- Information & Network Security
- Quantum Computing
- Discrete Mathematics
- Graph Theory
- Computability
- P & NP Problem
- Computable Functions
- Recursive Function Theory
- Automata
- Optimizing Compilers
- Distributed Systems
- Cloud Systems and Security
- Open Platforms
- Virtualization

## Track B: Algorithms

- Distributed Computing
- Distributed & Parallel Algorithms
- Image & Video Algorithms
- Analysis of Algorithms
- Algorithmic Game Theory
- Computational Logic
- Parallel Processing
- Formal Language Theory
- Parallel Programming Languages
- Geometric Algorithms
- Randomized Algorithms
- Online Algorithms
- Streaming Algorithms
- Computer Vision
- Computational Biology
- Computer Graphics & Visualization
- Database & Data Mining
- Embedded System
- Medical Informatics
- Multimedia Computing
- Programing Language & Systems
- Scientific and Numerical Computing

## Track C: Mathematics

- Numerical Techniques
- Probability and Stochastic Model
- Computational Linear Algebra
- Queuing Theory & Performance Modelling
- Operation Research, Optimal Control Theory
- Special Functions & Integral Transform
- Fractional Calculus
- Image Processing
- Fluid Dynamics
- $\lambda$  - Calculus

## IMPORTANT DATES

Submission of Abstract	: 1 April, 2018
Notification of Abstract Acceptance	: 9 April, 2018
Submission of Camera Ready Paper	: 16 April, 2018
Conference Dates	: 27-28 April, 2018

Note : The paper will be submitted in IEEE conference format in MS- Word/Latex without page numbering, the IEEE format can be obtained at the following link :

MSWord : [www.ieee.org/documents/MSW\\_A4\\_format.doc](http://www.ieee.org/documents/MSW_A4_format.doc)

Latex : [www.ieee.org/conference\\_events/conference/publishing/templates.html](http://www.ieee.org/conference_events/conference/publishing/templates.html)

The paper need to be submitted through the Easy chair <https://easychair.org/cfp/TCSMM2018>

## PAPER SELECTION AND PUBLICATION

Selected papers will be published in one of the following UGC approved journals:

- \* Ganita Sandesh (ISSN : 0970-9169)
- \* Journal of Pure and Applied Science and Technology. (ISSN : 2231-4202)

## REGISTRATION

Registration of delegates should be made in advance by remitting the registration fee as indicated below along with duly filled Registration form which can be downloaded from the conference website : [www.tcsmm.jietjodhpur.com](http://www.tcsmm.jietjodhpur.com)

Delegate (Category)	Fee
Delegates from Industries	: ₹ 2500/-
Delegates from Academia	: ₹ 1500/-
Research Scholars/PG Students	: ₹ 1000/-
Undergraduate Students/Member of RGP	: ₹ 500/-

## ACCOMMODATION

A limited number of out station participant will be provided free boarding and lodging facility as per the availability.

Accommodation can be arranged on request on share basis.

Accommodation in Hotels can be arranged upon request on payment basis.

## PAYMENT OPTIONS

The registration fee can be paid via any of the following modes:

- (i) A/c payee cheque in favor of "Registrar- JIET"
- (ii) Crossed Demand Draft in favor of "Registrar-JIET", payable at Jodhpur.
- (iii) Through Bank transfer, as per following details:

Name of Bank	: Punjab National Bank
Branch	: Ratanada Colony, Jodhpur
Name of A/c	: Registrar- JIET
A/c number	: 0712002100036741
IFSC Code	: PUNB0071200

The scanned copy/ E-receipt of payment slip should be sent to [Email-tcsmm@jietjodhpur.ac.in](mailto:Email-tcsmm@jietjodhpur.ac.in), along with registration form and copyright form.

## Contact Persons

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For Registration procedure & paper submission please visit our website [www.tcsmm.jietjodhpur.ac.in](http://www.tcsmm.jietjodhpur.ac.in)