



BITS AND BYTES

VOLUME: III, EDITION: I, OCTOBER 17, 2017

VISION OF THE DEPARTMENT

To continually improve upon the teaching-learning processes and research with a goal to develop quality technical manpower with sound academic and practical experience, who can respond to challenges and changes happening dynamically in Computer Science and Engineering.

MISSION OF THE DEPARTMENT

- To inspire the students to work with latest tools and to make them industry ready.
- To impart research based technical knowledge
- To groom the department as a learning centre to inculcate advanced technologies in Computer Science and Engineering with social and environmental awareness.

Editors:

1. Dr. Mousumi Dutt,
Associate Professor

2. Dr. Amit Paul,
Assistant Professor,

3. Ms. Aishwarya Murmu,
B. Tech,
3rd Year,

DEPARTMENTAL MILESTONES

Medal Winner in Final University Examination:

- **Nicole Belinda Dillen** (2017 passed out), ranked 2nd position
- **Soumini Pyne** (2017 passed out), ranked 3rd position

Best Performance in End Semester University Examination:

- **Prachi Nigania**, 3rd Year, 6th Semester, CGPA: 9.81
- **Nikita Shah**, 2nd Year, 4th Semester, SGPA: 9.73
- **Priya Roy and Sharmistha Parui**, 1st Year, 2nd Semester, SGPA: 9.59

Performance in Competition:

Bidisha Das, 2nd Year, received an Honourable Mention in All India Essay Competition organized by Shri Ram Chandra Mission (SRCM) & United Nations Information Centre for India & Bhutan (UNIC)

Invited Professor Program:

- **Dr. Mousumi Dutt** was invited in XLIM Lab, University of Poitiers, Poitiers, France as Invited Professor from May 15 to July 15, 2017.

Ph.D Awarded:

- **Mr. Amit Paul**, received his PhD degree in August 2017 from Indian Institute of Engineering, Science and Technology (IEST) His research field is BioInformatics.

For

Further Information

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St. Thomas' College of Engineering and Technology

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Member of Program Committee:

- **Dr. Mousumi Dutt**, member of Program Committee, 18th International Workshop on Combinatorial Image Analysis, June 19-21, 2017, Plovdiv, Bulgaria

Faculty Development Programme:

- **Ms. Barnali Gupta Banik** and **Ms. Biswajita Dutta** attended the Short Term Training Programme on Design and Analysis of Algorithms to held at National Institute of Technical Teachers Training Research (NITTTR), Kolkata from 10th July, 2017 to 21st July, 2017 (2 Weeks)
- **Mr. Sudipta Basu** attended a training program which was held at National Institute of Technical Teachers Training Research (NITTTR), Kolkata from 17th July, 2017 to 21st July, 2017 on "Induction Training".

Industrial Training:

Industrial Training for final year students of the department was arranged at STCET on **R programming** in context with Machine Learning from 27th June, 2017 to 19th July, 2017 coordinated and deployed by Dirac Business solutions Pvt. Ltd.

PUBLICATION DETAILS

1. A. Sarkar, A. Biswas, **M. Dutt**[†], P. Bhowmick, and B. B. Bhattacharya: A Linear-Time Algorithm to Compute the Triangular Hull of a Digital Object. Discrete Applied Mathematics, Elsevier, 216(2), 408-423, 2017.
2. A. Sarkar, A. Biswas, **M. Dutt**[†], and A. Bhattacharya: Finding a largest rectangle inside a digital object and rectangularization. Journal of Computer and System Sciences. Elsevier (2017) (in press: published online). (SCI Indexed) Impact Factor: 1.678.
3. **A. Halder**[†] and **S. Guha**^{*}, Medical Image Segmentation using Rough-Spatial Kernelized FCM Algorithm, Springer, CICBA-2017.
4. **A. Halder**[†] and **O. Dobe**^{*}, Rough K-means and Support Vector Machine based Brain Tumor Detection, 6th International Conference on Advances in Computing, Communication and Informatics, IEEE Xplore, 2017.
5. **D. Chakraborty**[†], **A. Hore**^{*}, An Efficient Speech Compression Technique in Time Domain with nearly Constant Compression, ICIECE-2017 conference and publication in Lecture Notes in Networks and Systems – Springer Conference Proceedings, 2017.
6. **G. Yasmin**[†], A. K. Das, **A. Ghosal**[†], A Hierarchical Stratagem for Rice Leaf Disease Distinction, International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), IEEE, Kerala, India, pp. 292-298, July, 2017.
7. **G. Yasmin**[†], S. Dutta and **A. Ghosal**[†], Discrimination of Male and Female Voice Using Occurrence Pattern of Spectral Flux, ICICICT, IEEE, India, 2017.
8. **S. Sengupta**^{*}, **G. Yasmin**[†] and **A. Ghosal**[†], Classification of Male and Female Speech Using Perceptual Features, ICCCNT, IEEE, IIT Delhi, India (2017).

[†]Publications by college faculty

^{*}Publications by college students under the guidance of college faculty