



# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

NEWSLETTER

## BITS AND BYTES

VOLUME: IV, EDITION: I, OCTOBER 26, 2018

DEPARTMENT

### 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.

CSE

### 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. Sanghamitra De,  
Assistant Professor

4. Ms. Ghazaala Yasmin,  
Assistant Professor

5. Ms. Aishwarya Murmu,  
B. Tech, 4<sup>th</sup> Year

### DEPARTMENTAL MILESTONES

#### University Topper

Prachi Nigania, 2018 passout, DGPA: 9.46, gold medal

#### Best Performance in University Examination:

- Firdaus Siddiqui, 2<sup>nd</sup> Semester, SGPA: 9.38
- Arita Pani, 4<sup>th</sup> Semester, SGPA: 9.92
- Nikita Shah, 6<sup>th</sup> Semester, SGPA: 9.54
- Neha Chand, 8<sup>th</sup> Semester, SGPA: 9.90

For  
Further Information  
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For Feedback  
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#### Events:

- Afridi Kayal 1<sup>st</sup> Year, First Prize in Tech Fest Innovatia, 14<sup>th</sup> April 2018.
- Akshay Anand 4<sup>th</sup> Year, qualified both the rounds of HackWithInfy 2018.
- Abhilash Misra 4<sup>th</sup> Year, qualified both the rounds of HackWithInfy 2018.
- Samrat Dutta 4<sup>th</sup> Year, qualified both the rounds of HackWithInfy 2018.
- Arnab Sen 4<sup>th</sup> Year, qualified both the rounds of HackWithInfy 2018.
- Swarnabha Das 4<sup>th</sup> Year, Best Photography in 'The World Through Lenses' Group, 11<sup>th</sup> July 2018.
- Swarnabha Das 4<sup>th</sup> Year, Best Photography in Passion8 Photography Group 07<sup>th</sup> July 2018 and 26<sup>th</sup> September 2018.

#### Conference Participation:

- Akshay Chatterjee presented the paper "Human Emotion Recognition from Speech & Audio through physical features" at MARC 2018 held at HMRITM, New Delhi, India, 20<sup>th</sup> July 2018.
- Subham Panja presented the paper "Kernel functions of SVM: a comparison and optimal solution" at 2<sup>nd</sup> International Conference on Advanced Informatics for Computing Research (ICAICR-2018) at Hotel Deventure, Shimla, India on July 14-15, 2018.



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## PUBLICATION DETAILS

1. **B. G. Banik**<sup>†</sup> and S. Bandyopadhyay “Novel text Steganography using Natural Language Processing and Part-of-Speech Tagging” IETE Journal of Research, Taylor & Francis (2018)
2. **B. G. Banik**<sup>†</sup>, M. K. Poddar, S. K. Bandyopadhyay , “Image Steganography using Edge Detection by Kirsch Operator and Flexible Replacement Technique”, 2018 International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018), The conference proceedings will be published in Springer Advances in Intelligent Systems and Computing (AISC) Series, now indexed by: ISI Proceedings, DBLP. Ulrich's, EI-Compindex, SCOPUS, Zentralblatt Math, MetaPress, Springerlink.
3. **E. Ghosh**<sup>\*</sup>, **D. Debnath**<sup>\*</sup>, **B. G. Banik**<sup>†</sup>, “Blind RGB Image Steganography using Discrete Cosine Transformation” 2018 International Conference on Emerging Technologies in Data Mining and Information Security(IEMIS 2018), The conference proceedings will be published in Springer Advances in Intelligent Systems and Computing (AISC) Series, now indexed by: ISI Proceedings, DBLP. Ulrich's, EI-Compindex,SCOPUS, Zentralblatt Math, MetaPress, Springerlink.
4. **A. Hore**<sup>\*</sup>, **P. Jain**<sup>\*</sup>, **D. Chakraborty**<sup>†</sup>, “An Efficient Speech Compression Technique in Time Domain with nearly Constant Compression“, SPRINGER proceedings of ICIECE-2017
5. **S. K. Pati**<sup>†</sup>, **S. Mallick**<sup>†</sup>, A. Chakraborty, “Informative Gene Selection using Clustering and Gene Ontology”, International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS-2018.
6. A. Chatterjee, T. Bera, **S. K. Pati**<sup>†</sup>, Asit K. Das, “A Data hiding scheme with digital authentication using parity checkers”, International Conference on Soft Computing in Data Analytics, SCDA-2018.
7. **S. K. Pati**<sup>†</sup>, **S. Mallick**<sup>†</sup>, Aruna Chakraborty, “Informative Gene Selection using Clustering and Gene Ontology”, International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS-2018.
8. **S. K. Pati**<sup>†</sup>, Asit K. Das, “Computational Intelligence in Microarray Data Analysis”, International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS-2018, Doctoral Symposium.
9. **G. Yasmin**<sup>†</sup>, **O. Mullick**, A. Ghosal, A K Das. “Gender Recognition inclusive with Trans-Gender from Speech classification”, International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS), Springer, India, 2018.
10. **G. Yasmin**<sup>†</sup>, I. Dasgupta, A. K. Das. “Language discrimination from speech signal using perceptual and physical features”, International Conference on Computational Intelligence in Data Mining (ICCIDM), Springer, India, 2017.
11. **A. Halder**<sup>†</sup>, **A. Maity**<sup>\*</sup> and **A. Das**<sup>\*</sup>, Medical Image Segmentation using GA based Modified Spatial FCM Clustering. 2nd International Conference on Integrated Intelligent Computing, Communication and Security, Springer, January 2018.
12. **O. Dobe**<sup>\*</sup>, A. Sarkar and **A. Halder**<sup>†</sup>, Rough K-means and Morphological Operation based Brain Tumor Extraction, 2nd International Conference on Integrated Intelligent Computing, Communication and Security, Springer, January 2018.
13. **A. Halder**<sup>†</sup>, **K. Saha**<sup>\*</sup>, Apurba Sarkar and **A. Sen**<sup>\*</sup>, “A Change Detection Technique using Rough C-Means on Medical Images”, International Conference on Cognitive Informatics & Soft Computing (CISC-2017), Springer, December, 2017.
14. **G. Yasmin**<sup>†</sup>, S. Dhara, R. Mahindar, A. K. Das. “Speaker identification from mixture of speech and non-speech audio signal”, International Conference on Soft Computing in Data Analytics (SCDA), Springer, India, 2018
15. A. Ghosal, **G. Yasmin**<sup>†</sup>, D. Banerjee. “Differentiation of Speech and Song using Occurrence Pattern of Delta Energy”, International Conference on Soft Computing in Data Analytics (SCDA), Springer, Srikakulam, Andhra Pradesh, India, 2018.

<sup>†</sup>Publications by college faculty

<sup>\*</sup>Publications by college students under the guidance of college faculty