

# Activity Report - Report on Activities of 2017

## Events of 2018

### Technical:

**March 11:** The Third Coding Competition (CODECOM' 2018) was organized at the Department of Computer and System Sciences, Visva Bharati University, Santiniketan, West Bengal, India on March 11, 2018 in technical collaboration with IEEE Computational Intelligence Society Kolkata Chapter. The event was a web based test of program coding of duration three hours. There were 73 participants in 40 groups with each group comprising at most two participants. Four groups were awarded prizes in the form of gift vouchers. All the participants were issued participation certificates.

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## Events of 2017

### Technical:

**December 16:** The First International Seminar on Intelligent Computing (ISIC 2017) was organized at Department of Information Technology, Jadavpur University on December 16, 2017 in technical collaboration with IEEE Computational Intelligence Society Kolkata Chapter. Two eminent speakers on the seminar were Prof. Dipankar Dasgupta, FIEEE & ACM Distinguished Speaker, DPEBP of Computer Science, University of Memphis, USA, and Prof. Xin Yao, FIEEE and IEEE Distinguished Speaker, Chair Professor of Computer Science, Southern University of Science and Technology, Shenzhen, China. Their talk titles were "Computational Intelligence in Identity Management", and "Ensemble Approaches to Class Imbalance Learning", respectively. There were 53 guest participants and 8 IEEE member participants.

**December 15:** IEEE Computational Intelligence Society approved and sponsored Distinguished Lecture Programme, was delivered by Prof. Xin Yao at Siksha O Anusandhan Deemed University, Bhubaneswar. The program commenced at 10.30AM in the Bansuruguru Auditorium of Campus 1. Prof. Xin Yao, Chair Professor, Department of Computer Science and Engineering, Southern University of Science and Technology, China, delivered the lecture on "Recent Advances in Many Objective Optimisation". Besides funding from the IEEE CIS, the program was also supported by the Siksha O Anusandhan University. There were 25 guest participants and 41 IEEE member participants.



**December 13:** IEEE Computational Intelligence Society sponsored lecture was organized from 3 PM in the CSCR Conference Room of the Indian Statistical Institute, Kolkata on December 13, 2017. Prof. Xin Yao, Chair Professor, Department of Computer Science and Engineering, Southern University of Science and Technology, China, delivered the lecture on "Ensemble Approaches to Class Imbalance Learning". The program was attended by around 20 participants, encompassing faculty members and research scholars. Prof. Xin Yao delivered his engrossing lecture for around one hour, followed by interesting research discussions on possible future collaboration between the two institutes. There were 9 guest participants and 18 IEEE member participants.

**September 18 - September 22:** The IEEE Computational Intelligence Society Summer School, RACI 2017, was organized by the Machine Intelligence Unit of Indian Statistical Institute in collaboration with the IEEE Kolkata Section, during September 18-22 at Indian Statistical Institute, Kolkata, India.

Patron: Prof. Sanghamitra Bandyopadhyay, Fellow IEEE, Director, Indian Statistical Institute.

General Chair: Prof. Sushmita Mitra, Fellow IEEE, Chair, IEEE CIS Kolkata Chapter, Head, Machine Intelligence Unit, Indian Statistical Institute, Kolkata. The galaxy of speakers included

1. Prof. Lawrence O. Hall, Fellow IEEE, Department of Computer Science and Engineering, University of South Florida, USA.

Topic: Adapting Deep Learning for Medical Image Understanding I, II



2. Prof. HisaoIshibuchi, Fellow IEEE, Department of Computer Science and Engineering, Southern University of Science and Technology, China & Osaka Prefectural University, Japan.

Topic: Evolutionary Single-, Multi-, and Many-Objective Optimization I, II

3. Prof. Francesco Masulli, Chair, IEEE CIS Italy Chapter, DIBRIS, University of Genova, Genova, Italy.

Topic: Time Evolving Data Streams Unsupervised Tracking I, II

4. Prof. Marley B. Vellasco, Department of ELE, Pontifical Catholic University of Rio de Janeiro, Brazil (General Chair IEEE WCCI 2018).

Topic: Hybrid Intelligent Systems and Applications I, II

5. Prof. P. N. Suganthan, Fellow IEEE, School of EEE, College of Engineering, Nanyang Technological University, Singapore.

Topic: Non-iterative Methods for Classification and Forecasting I, II

6. Dr. Tinku Acharya, Fellow IEEE, Videonetics Technology Pvt. Ltd., Kolkata, India.

Topic: Video IoT and its Application

7. Dr. L V Subramaniam, IBM, Delhi, India.

Topic: Cognitive Systems that Drive Decision Making in Industry I, II

8. Prof. SantanuChaudhury, Director, CSIR-Central EE Research Institute, Pilani, India.

Topic: Learning in Non-Stationary Environment I, II

9. Prof. ShalabhBhatnagar, Dept of Computer Science and Automation, Indian Institute of Science, Bangalore, India.

Topic: Reinforcement Learning Algorithms with Function Approximation and Feature Adaptation I, II

10. Prof. C. A. Murthy, Machine Intelligence Unit, Indian Statistical Institute, Kolkata, India.

Topic: Machine Learning and Pattern Recognition I, II

11. Prof. Amit Konar, Department of Electronics & Telecommunication Engineering, Jadavpur University, Kolkata, India.

Topic: Brain Computer Interface

12. Dr. PabitraMitra, Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur, India.

Topic: Machine Learning for Climate Science I, II

13. Dr. Pradipta Maji, Machine Intelligence Unit, Indian Statistical Institute, Kolkata, India.

Topic: Granular Computing

14. Prof. SushmitaMitra, Fellow IEEE, Chair, IEEE CIS Kolkata Chapter, Machine Intelligence Unit, Indian Statistical Institute, Kolkata, India

Topic: From Learning to Deep Learning

15. Prof. SanghamitraBandyopadhyay, Fellow IEEE, Director, Indian Statistical Institute, India.

Inaugural Address

16. Prof. Nikhil R. Pal, Fellow IEEE, President-Elect IEEE CIS 2018, Electronics & Communication Sciences Unit, Indian Statistical Institute, Kolkata, India.  
Introduction to IEEE CIS

17. Prof. Sujit K. Biswas, Chair IEEE Kolkata Section, Dept. of Electrical Engineering, Jadavpur University, Kolkata, India. About IEEE Kolkata Section

18. Prof. Pradipta K. Nanda, Vice Chair, IEEE CIS Kolkata Chapter, SOA University, Bhubaneswar, India.

Vote of Thanks



There were 44 guest participants and 23 IEEE member participants.

**September 8 - September 10:** IEEE approved and IEEE Computational Intelligence Society, Kolkata Chapter co-sponsored First International Conference (ICACCP 2017) held at Sikkim Manipal Institute of Technology, Rongpo, Sikkim, India. There were 83 guest participants and 14 IEEE member participants.

**August 18:** Technical Lecture Session on "Continuous Visual Learning with Limited Supervision by Exploiting Context" in the Department of Electronics and Telecommunication Engineering of Jadavpur University Kolkata, India. Speech delivered by Amit K. Roy-Chowdhury, Professor of Electrical and Computer Engineering and a Cooperating Faculty in the department of Computer Science and Engineering at University of California, Riverside, (UCR), USA.. There were about thirty participants including faculty members research scholars and post graduate students.

**August 08:** One day Symposium on "Computational Intelligence: Theories, Applications and Future Aspects" in the Department of Computer Science and Engineering of Assam University Silchar, India. Speech delivered by two invited speakers - (i) Prof. Paramartha Dutta of Visva Bharati University, (ii) Dr. Tandra Pal of National Institute of Technology, Durgapur. There were more than fifty participants.

**July 17 - July 21:** IEEE Computational Intelligence Society, Kolkata Chapter sponsored (technical) Faculty Development Programme on "Hybrid Computational Intelligence" with financial support from ICT Academy, Government of India hosted by the RCC Institute of Information Technology, Kolkata. Senior faculty members from pioneer academic institutes shared their experience for knowledge enhancement of young faculty members. 19 guest participants and 4 IEEE member participants attended the programme.

**June 15:** One day National Symposium on "Recent Trends in Computational Intelligence" in the Department of Computer Science, Gour Banga University, Malda, India. Speech delivered by four invited speakers - (i) Prof. Paramartha Dutta of Visva Bharati University, (ii) Prof. Jaya Sil of Indian Institute of Engineering Science and Technology, Shibpur, (iii) Dr. Anirban Mukhopadhyay of University of Kalyani, Kalyani and (iv) Dr. Jyoti Prakash Singh of National Institute of Technology, Patna. There were about seventy participants.

**March 24 - 25:** First International Conference on "Computational Intelligence, Business Analytics, and Communication (CICBA-2017) was organized under the technical co-sponsorship of IEEE Computational Intelligence Society, Kolkata Chapter at the Calcutta Business School, Bishnupur, 24-Parganas, South, West Bengal, India. Springer, Singapore is the publisher of the proceeding.

**March 22:** One day Symposium on "Machine Learning and its Applications" in the Department of Computer Science and Engineering of National Institute of Technology, Durgapur, India. Speech was delivered by Dr. Siddhartha Bhattacharyya of RCC Institute of Information Technology, Kolkata, India. There were 40 guest participants and 5 IEEE member participants..

**March 01:** One day National Level Seminar on "Evolutionary Multi-Objective Optimization" in the Department of Information Technology of RCC Institute of Information Technology, Kolkata, India. Speech was delivered by Dr. Tandra Pal of National Institute of Technology, Durgapur. There were 40 guest participants and 10 IEEE member participants.

**February 25:** One day Symposium on "Some New Research Directions in Machine Learning and Machine Intelligence" in the Department of Computer and System Sciences, Visva Bharati University, Santiniketan, India. Speech delivered by four invited speakers - (i) Prof. Sushmita Mitra of Indian Statistical Institute, Kolkata, (ii) Prof. Jaya Sil of Indian Institute of Engineering Science and Technology, Shibpur, (iii) Prof. Amit Konar of Jadavpur University, Kolkata and (iv) Dr. Tandra Pal of National Institute of Technology, Durgapur. There were 28 guest participants and 2 IEEE member participants

## Administrative:

**September 20:** First General Body Meeting of IEEE Computational Intelligence Society, Kolkata Chapter held at Platinum Jubilee Auditorium of the Indian Statistical Institute, Kolkata on and from 18.00 hours, duly attended by Learned Members of the Chapter. It was attended by 10 guest and 8 members.

**September 06:** Fourth extended meeting of the Executive Committee held at the Electronics and Communication Sciences Unit, Indian Statistical Institute, Kolkata during 04.00 PM to 05.30 AM. It was attended by 11 members.

**August 09:** Third extended meeting of the Executive Committee held at the Electronics and Communication Sciences Unit, Indian Statistical Institute, Kolkata during 04.00 PM to 05.30 AM.

**June 28:** Second extended meeting of the Executive Committee held at the Electronics and Communication Sciences Unit, Indian Statistical Institute, Kolkata during 10.00 AM to 11.30 AM.

**February 25:** First meeting of the Executive Committee held at the Department of Computer and System Sciences, Visva Bharati University, Santiniketan during 9.00 AM to 10.00 AM.

## Awards/Honours

(i) **IEEE CIS President, 2018-2019:**

Prof. Nikhil Ranjan Pal, Indian Statistical Institute.

(ii) **IEEE CIS Travel Grant of US\$800:**

(a) Dr. Pratyusha Rakshit, Jadavpur University, IEEE CEC 2017, June 5-8, San Sebastian, Spain, and

(b) Mr. Subhashis Banerjee, Indian Statistical Institute, FUZZ IEEE 2017, July 9-12, Naples, Italy.

(iii) **IEEE CIS Student Research Grant of US\$4000:**

(a) Mr. Soham Mandal, IEST, to City University of Hong Kong, and

(b) Mr. Subhashis Banerjee, Indian Statistical Institute, to University of Genoa, Italy.

(iv) **Best Paper Award in FUZZ IEEE 2017:**

Prof. Amit Konar and his group, Jadavpur University.

(v) **Infosys Award and TWAS Prize:**

Prof. Sanghamitra Bandyopadhyay, Indian Statistical Institute.

(vi) **INAE Chair Professor, 2018-2019:**

Prof. Sushmita Mitra, Indian Statistical Institute.

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## Events of 2016

**December 26:** Lecture by Prof. Mrinal K. Naskar, Department of Electronics and Telecommunication Engg., Jadavpur University, Kolkata on "Intelligent Digital Circuit Design and Description using Verilog" at University of Kalyani, Kalyani, India.

**December 22:** Lecture by Prof. Dipankar Dasgupta, Department of Computer Science, University of Memphis, USA on "Adaptive Multi-Factor Authentication" at Jadavpur University, Kolkata, India.

**December 8:** Lecture by Dr. Sayan Bhattacharya, Institute of Mathematical Sciences, Chennai, India on "Design of Dynamic Algorithms via Primal-Dual Method" at Indian Statistical Institute, Kolkata, India.

**November 22:** Workshop on "Recent Advances in Computational Intelligence" and IEEE CIS Distinguished Lecture by Prof. Gary G. Yen, Oklahoma State University, USA at Indian Statistical Institute, Kolkata, West Bengal, India.

**September 24:** Lecture by Dr. Anirban Mukhopadhyay, Associate Professor, Department of Computer Science and Engineering, University of Kalyani, on "Technical Document Writing using Latex" at MCKV Institute of Engineering, Liluah, West Bengal, India.

**July 22:** Lecture by Dr. Hillol Kargupta, co-founder and President of Agnik and former Professor of University of Maryland Baltimore County, USA on "Distributed Data Analytics for Connected Cars and IoT: Journey through Academia and Industry" at Indian Statistical Institute, Kolkata, West Bengal, India.

**July 04-22:** Summer Workshop for Students on Web Application Development and Employability Skill Grooming (Technically sponsored by IEEE CIS Kolkata Chapter) at RCC Institute of Information Technology, Kolkata, West Bengal, India.

**June 28:** Lecture by Srinka Basu, Assistant Professor, Department of Engineering and Technological Studies, University of Kalyani, Kalyani on "Link Mining in Dynamic Social Networks" at Indian Statistical Institute, Kolkata, West Bengal, India.

**April 01:** Lecture by Prof. Ujjwal Maulik, Professor, Department of Computer Science and Engineering, Jadavpur University, Kolkata on "Data Mining: Issues, Challenges and Applications" at Murshidabad College of Engineering and Technology, Baharampore, West Bengal, India.

**January 16:** Lecture by Dr. Indrajit Saha, NITTTR, Kolkata on "Evolutionary Computing for Optimization Problems" at Murshidabad College of Engineering and Technology, Baharampore, West Bengal, India.

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