

Time		Program to be held
Day 1: Tuesday 17 th December 2019	8:30-9:30	Breakfast Registration, Deans Building
	9:30-11:00	Tutorial 1: Brief History of Topic Models Speaker: Prof Chiranjib Bhattacharya, <i>IISc Bangalore</i> Chair: Prof. Partha Pratim Sahu, <i>Tezpur University</i> Venue: Seminar Hall, Dept. of CSE
		Tutorial 2: Introduction to Compressed Sensing Speaker: Dr. Ajit Rajwade, <i>IIT Bombay</i> Chair: Dr. Arjit Sur, <i>IIT Guwahati</i> Venue: SoE Gallery, Deans Building
	11:00-11:15	Tea/Coffee Break
	11:15-12:15	Tutorial 3: Novel Nonparallel Support Vector Machines for Classification Problems Speaker: Dr. M. Tanveer, <i>IIT Indore</i> Chair: Dr. Arjit Sur, <i>IIT Guwahati</i> Venue: SoE Gallery, Deans Building
		Tutorial 4: EEG Characterization of Motor Imagery-Induced Mental Fatigue Speaker: Prof. Shyamanta M. Hazarika, <i>IIT Guwahati</i> Chair: Dr. Nayan Moni Kakoty, <i>Tezpur University</i> Venue: Seminar Hall, Dept. of CSE
	12:15-12:45	Special Lecture 1: Quantum Optic Processing Speaker: Prof. Partha Pratim Sahu, <i>Tezpur University</i> Chair: Dr. Soumik Roy, <i>Tezpur University</i> Venue: SoE Gallery, Deans Building
		Special Lecture 2: CNT based Biosensor for Clinical Applications Speaker: Prof. Jiten Chandra Dutta, <i>Tezpur University</i> Chair: Dr. Vijay Kumar Nath, <i>Tezpur University</i> Venue: Seminar Hall, Dept. of CSE
	12:45-1:30	Inauguration of Space Technology Exhibition
	1:30-2:30	Lunch Break
	2:30-3:50	Session: Doctoral Symposium Chair: Dr. Arjit Sur, <i>IIT Guwahati</i> Venue: SoE Gallery, Deans Building
		Title: Novel Strategies for Image Retargeting: Energy Design, Acceleration and Scene Awareness Graduate Student: Mr. Diptiben Patel, <i>IIT Gandhinagar</i>
		Title: Pre-charge Free Content Addressable Memory: Binary and Ternary Storage Graduate Student: Mr. Telajala Venkata Mahendra, <i>NIT Meghalaya</i>
		Title: Fingerprint Quality Assessment for Enhancement and Liveness Detection Graduate Student: Mr. Ram Prakash Sharma, <i>IIT Indore</i>
	3:50-4:10	Title: Compressed Multimedia Forgery Detection through Blind Digital Forensics Graduate Student: Mr. Jaimimamul Bakas, <i>NIT Rourkela</i>
		Tea/Coffee Break
	4:10-5:30	Session: Doctoral Symposium Chair: Dr. Arjit Sur, <i>IIT Guwahati</i> Venue: SoE Gallery, Deans Building
		Title: Development of Compressed Sensing Reconstruction Techniques for Rapid MRI Graduate Student: Mr. Sumit Datta, <i>Tezpur University</i>
		Title: Identity Independent Face Anti-Spoofing Graduate Student: Mr. Balaji Rao Katika, <i>IIT Guwahati</i>
		Title: Integrative Analysis of Multimodal Data Graduate Student: Mrs. Ankita Mandal, <i>ISI Kolkata</i>
		Title: Modeling Control Dynamics of Integrated Bio-chemical Pathways: A Control Theoretic Approach Graduate Student: Mr. Abhijit Dasgupta, <i>ISI Kolkata</i>

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8:30-9:30	Breakfast
	Registration , Deans Building
9:30-10:30	Inauguration , SoE Gallery, Deans Building
10:30-10:40	High Tea/Coffee Break
10:40-11:20	Invited Talk 1: Cognitive Analysis using Physiological Sensing Speaker: Prof. Sanjoy Kumar Saha, <i>Jadavpur University</i> Chair: Prof. Kuntal Ghosh, <i>ISI Kolkata</i> Venue: SoE Gallery, Deans Building
11:20-11:50	Special Lecture 3: Image Forensics Methods: From Machine Learning to Deep Learning Speaker: Prof. Prabin K. Bora, <i>IIT Guwahati</i> Chair: Prof. Bhogeswar Borah, <i>Tezpur University</i> Venue: SoE Gallery, Deans Building
	Special Lecture 4: Machine Learning for Cardiovascular Abnormalities Speaker: Prof. Samarendra Dandapat, <i>IIT Guwahati</i> Chair: Dr. Nayan Moni Kakoty, <i>Tezpur University</i> Venue: Seminar Hall, Dept. of CSE
11:50-12:35	Invited Talk 2: Imparting Sentiment and Politeness on Computers Speaker: Prof. Pushpak Bhattacharyya, <i>IIT Patna</i> Chair: Prof. Utpal Sharma, <i>Tezpur University</i> Venue: Smart classroom, SoE, Deans Building (Over Skype)
12:35-1:35	Session I: Machine Learning and Deep Learning Chair: Prof. Shyamanta M. Hazarika, <i>IIT Guwahati</i> Paper ID: 31, 38, 56, 71 Venue: Smart classroom, SoE, Deans Building
	Session II: Machine Learning and Deep Learning Chair: Prof. Kuntal Ghosh, <i>ISI Kolkata</i> Paper ID: 80, 105, 117,131 Venue: Seminar Hall, Dept. of CSE
	Session III: Machine Learning and Deep Learning Chair: Prof. Prabin K. Bora, <i>IIT Guwahati</i> Paper ID: 216, 249, 252, 314 Venue: Classroom I, Deans Building
1:35-2:30	Lunch Break
2:30-3:15	Industrial Talk 1: How to escape saddle points efficiently? Speaker: Dr. Praneeth Netrapalli, <i>Microsoft Research India</i> Chair: Prof. Shyamanta M. Hazarika, <i>IIT Guwahati</i> Venue: SoE Gallery, Deans Building
3:20-4:05	Session IV: Short Oral Presentation Chair: Dr. Nayan Moni Kakoty, <i>Tezpur University</i> Paper ID: 7, 9, 11, 44, 46, 47, 51, 57, 69, 75, 76, 94, 100, 106 Venue: Smart classroom, SoE, Deans Building
	Session V: Short Oral Presentation Chair: Prof. Bhogeswar Borah, <i>Tezpur University</i> Paper ID: 111, 112, 125, 130, 132, 139, 145, 147, 167, 195, 197, 204, 218, 233 Venue: Seminar Hall, Dept. of CSE
	Session VI: Short Oral Presentation Chair: Prof. Prabin K. Bora, <i>IIT Guwahati</i> Paper ID: 237, 257, 262, 265, 266, 268, 275, 300, 301, 305, 306, 311, 320, 352 Venue: Classroom I, Deans Building
4:05-4:15	Tea/Coffee Break
4:15-5:00	Invited Talk 3: Internet of Things: Enabling Cross-domain Convergence and Innovation Speaker: Prof. Sudip Misra, <i>IIT Kharagpur</i> Chair: Prof. Partha Pratim Sahu, <i>Tezpur University</i> Venue: SoE Gallery, Deans Building
5:00-6:00	Session: Poster Presentation Chair: Dr. M. Tanveer, <i>IIT Indore</i> , Dr. Praneeth Netrapalli, <i>Microsoft Research India</i> , Prof. Manabendra Bhuyan, <i>Tezpur University</i> Paper ID: 7, 9, 11, 44, 46, 47, 51, 57, 69, 75, 76, 94, 100, 106, 111, 112, 125, 130, 132, 139, 145, 147, 167, 195, 197, 204, 218, 233, 237, 257, 262, 265, 266, 268, 275, 300, 301, 305, 306, 311, 320, 352 Venue: In front of ECE Building

Time	Program to be held
8:30-9:30	Breakfast
	Registration , Deans Building
9:30-10:30	Plenary Talk 1: Anatomy-guided AI for Body-wide Medical Image Analysis Speaker: Prof. Jayaram K. Udupa, <i>University of Pennsylvania, USA</i> Chair: Prof. Dhruva K Bhattacharyya, <i>Tezpur University</i> Venue: SoE Gallery, Deans Building
10:35-11:35	Session VII: Medical Informatics Chair: Prof. Samarendra Dandapat, <i>IIT Guwahati</i> Paper ID: 42, 58, 66, 95 Venue: Smart classroom, SoE, Deans Building
	Session VIII: Medical Informatics Chair: Dr. Vijay Kumar Nath, <i>Tezpur University</i> Paper ID: 127, 137, 154, 198 Venue: Seminar Hall, Dept. of CSE
	Session IX: Medical Informatics Chair: Prof. Manabendra Bhuyan, <i>Tezpur University</i> Paper ID: 221, 234, 287, 291 Venue: Classroom I, Deans Building
11:35-11:45	Tea/Coffee Break
11:45-12:30	Industrial Talk 2: Machine Learning and its Application in Remote Sensing Data Classification Applications Speaker: Prof. Anil Kumar, <i>IIRS-ISRO</i> Chair: Prof. Samarendra Dandapat, <i>IIT Guwahati</i> Venue: SoE Gallery, Deans Building
12:35-1:35	Session X: Pattern Recognition and Remote Sensing Chair: Prof. Manas Kamal Bhuyan, <i>IIT Guwahati</i> Paper ID: 24, 98, 104, 183 Venue: Smart classroom, SoE, Deans Building
	Session XI: Pattern Recognition and Remote Sensing Chair: Prof. Pradipta Maji, <i>ISI Kolkata</i> Paper ID: 245, 264, 269, 272 Venue: Seminar Hall, Dept. of CSE
	Session XII: Pattern Recognition and Remote Sensing Chair: Dr. Sanjit Maitra, <i>ISI NE Center, Tezpur</i> Paper ID: 280, 282, 297, 340 Venue: Classroom I, Deans Building
1:35-2:30	Lunch Break
2:30-3:15	Invited Talk 4: The Rise of Hate Content in Social Media Speaker: Dr. Animesh Mukherjee, <i>IIT Kharagpur</i> Chair: Prof. Smriti Kumar Sinha, <i>Tezpur University</i> Venue: SoE Gallery, Deans Building
3:20-4:35	Session XIII: Intelligent Sensors and Information Retrieval Chair: Prof. Manabendra Bhuyan, <i>Tezpur University</i> Paper ID: 26, 35, 146, 161, 178 Venue: Seminar Hall, Dept. of CSE
	Session XIV: Intelligent Sensors and Information Retrieval Chair: Prof. Jiten Chandra Dutta, <i>Tezpur University</i> Paper ID: 244, 261, 279, 302, 339 Venue: Smart classroom, SoE, Deans Building
4:35-4:45	Tea/Coffee Break
4:45-6:00	Plenary Talk 2: Granular Artificial Intelligence: A New Avenue of Artificial Intelligence for Modeling Environment and Pattern Recognition Speaker: Prof. Witold Pedrycz, <i>University of Alberta, Canada</i> Chair: Prof. Dhruva K Bhattacharyya, <i>Tezpur University</i> Venue: KBR Auditorium, (Over Skype)
6:00-8:00	Cultural Program , KBR Auditorium
8:00-10:00	Banquet Dinner

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8:30-9:30	Breakfast Registration, Deans Building
9:30-10:10	Special Lecture 5: Machine Learning in Gene Expression Data Analysis: A Big Data Analytics Approach Speaker: Prof. Dhruva K Bhattacharyya, <i>Tezpur University</i> Chair: Dr. Siddhartha S. Satapathy, <i>Tezpur University</i> Venue: SoE Gallery, Deans Building Special Lecture 6: Instrumentation and Artificial Intelligence Speaker: Prof. Manabendra Bhuyan, <i>Tezpur University</i> Chair: Dr. Soumik Roy, <i>Tezpur University</i> Venue: Seminar Hall, Dept. of CSE
10:15-11:30	Session XV: Signal, Image and Video Processing Chair: Dr. Swarnajyoti Patra, <i>Tezpur University</i> Paper ID: 119, 122, 129, 141, 149 Venue: Smart classroom, SoE, Deans Building Session XVI: Signal, Image and Video Processing Chair: Prof. Samarendra Dandapat, <i>IIT Guwahati</i> Paper ID: 85, 168, 169, 177, 179 Venue: Seminar Hall, Dept. of CSE Session XVII: Signal, Image and Video Processing Chair: Dr. Sarat Saharia, <i>Tezpur University</i> Paper ID: 181, 192, 199, 200, 211 Venue: Classroom I, Deans Building Session XVIII: Signal, Image and Video Processing Chair: Dr. Prithwijit Guha, <i>IIT Guwahati</i> Paper ID: 219, 223, 232, 241 Venue: Classroom II, Deans Building
11:30-11:45	Tea/Coffee Break
11:45-12:45	Session XIX: Machine Learning and Soft Computing Chair: Dr. Sanjit Maitra, <i>ISI NE Center, Tezpur</i> Paper ID: 15, 29, 91, 99 Venue: Smart classroom, SoE, Deans Building Session XX: Machine Learning and Soft Computing Chair: Dr. Arindam Karmakar, <i>Tezpur University</i> Paper ID: 115, 162, 164, 191 Venue: Seminar Hall, Dept. of CSE Session XXI: Machine Learning and Soft Computing Chair: Prof. Samarendra Dandapat, <i>IIT Guwahati</i> Paper ID: 208, 231, 283, 331 Venue: Classroom I, Deans Building
12:45-1:30	Invited Talk 6: Beyond Text Detection and Recognition: Emerging Opportunities in Scene Understanding Speaker: Prof. C. V. Jawahar, <i>IIT Hyderabad</i> Chair: Prof. Shyamanta M. Hazarika, <i>IIT Guwahati</i> Venue: SoE Gallery, Deans Building
1:30-2:30	Lunch Break
2:30-3:30	Session XXII: Signal, Image and Video Processing Chair: Dr. Swarnajyoti Patra, <i>Tezpur University</i> Paper ID: 243, 274, 276, 277 Venue: Smart classroom, SoE, Deans Building Session XXIII: Signal, Image and Video Processing Chair: Prof. Manabendra Bhuyan, <i>Tezpur University</i> Paper ID: 284, 285, 309, 310 Venue: Seminar Hall, Dept. of CSE Session XXIV: Signal, Image and Video Processing Chair: Prof. Bhogeswar Borah, <i>Tezpur University</i> Paper ID: 332, 342, 348, 351 Venue: Classroom I, Deans Building
3:30-4:00	Invited Talk 5: TBA Speaker: Prof. Sanghamitra Bandyopadhyay, <i>Director, Indian Statistical Institute Kolkata</i> Chair: Prof. Partha Pratim Sahu, <i>Tezpur University</i> Venue: SoE Gallery, Deans Building
4:00-4:45	Valedictory, SoE Gallery, Deans Building
4:45-5:00	Tea/Coffee Break