



**Haldia Institute of Technology (An Autonomous Institute)**  
(Affiliated to MAKAUT, West Bengal, AICTE Approved, India)  
(NAAC A Grade, All NBA Accredited Departments)



**Maulana Abul Kalam Azad University of  
Technology, (Formerly Known as West Bengal  
University of Technology), India**



## ***Five Days' International Webinar on Linguistics, Machine Learning & Uncertainty Theory (LMLAUT) December 14 - 18, 2021***

(Organized by School of Applied Science and Humanities & Computer Applications  
Department in collaboration with Applied Science Department of Maulana Abul Kalam Azad University of  
Technology)

### **Concept Note**

*If anything is certain in our life that is said to be uncertainty, and after this devastating pandemic break out, this uncertainty seems to loom large with even greater certainty demanding greater forbearance, and utter submission of the entire human race. But man is also known to be the crown of creation. It's invincible intellectual power, self-confidence, and determination enables him to stand up and slash back. And in this come back what have been the strongest weapons are computation, and automation through artificial intelligence. During the lockdown period when all of us were shut behind the doors, the only prime mode had been the e-mode and the automated machines. But this automation involves the feeding of the accurate rules to the computer following the required parameters. And to measure this degree of accuracy what becomes necessary are the linguistic fuzzy rules. Hence in this online webinar, while discussing about the man-machine interphase, the interlink between Linguistics, Machine Learning and Uncertainty theory will be focused on explaining their relation and relevance to real life.*

*Today in each and every sector, starting from business, management, banking, finance, stock market, health departments, education, professional communication, even in mapping, tracking and analyzing human sentiments, automation is being implemented. Hence, instead of confining our research and study to the core domains, it's high time to step out of our traditional domain specific approach and promote an interdisciplinary approach with a practical outlook wherein takes place the confluence of all knowledge, with a higher philosophy, fostering deep learning and true contribution to the society.*

## **Keynote Speakers**



**Professor (Dr.) Petr Dostál**  
Brno University  
Czech Republic



**Professor (Dr.) Dipak C. Ghosh**  
Emeritus Professor  
Jadavpur University, India



**Professor (Dr.) Baoding Liu**  
Tsinghua University  
China

# Schedule

## Day 1

### (14.12.2021)

**Chief Patron**  
**Dr. Laxman Chandra Seth**  
Haldia Institute of Technology



**Program Chair**  
**Prof. (Dr.) Radhaballabh Bhar**  
Maulana Abul Kalam Azad University of Technology



**Organizing Chair**  
**Prof. (Dr.) Dipak Kumar Jana**  
Haldia Institute of Technology



**Welcome Address**  
Time- 2.10 pm



**Dr. Priyanka Dey**  
Associate Professor  
(English Linguistics & Literature)  
School of Applied Science & Humanities  
Haldia Institute of Technology  
Haldia, West Bengal  
India  
Topic- *Introduction to the Theme*  
Time-2.00pm

**Prof. (Dr.) Petr Dostál**  
Prof. of Economy & Management  
Brno University of Technology  
Faculty of Business & Management  
Institute of Informatics  
Czech Republic  
United Kingdom  
Topic- *Key note Speech*  
Time-2.20 pm-2.55 pm



**Prof. (Dr.) Samarjit Kar**  
Department of Mathematics  
National Institute of Technology  
Durgapur  
West Bengal  
India  
Topic- *Uncertain Multi-objective Minimum*  
*Spanning Tree Problem*  
Time- 3.00-3.45 pm

**Emeritus Prof. (Dr.) Dipak Chandra Ghosh**  
Department of Sir C V Raman Centre  
for Physics and Music  
Jadavpur University  
West Bengal  
India  
Topic- *Linguistics in 21<sup>st</sup> Century*  
Time- 3.55pm-4.40pm



## Day-2

### (15.12.2021)



**Prof. (Dr.) Baoding Liu**  
Department of Mathematical Science  
Tsinghua University  
China  
Topic- *Uncertainty Theory*  
Time- 2.00 pm-2.50 pm

**Prof. (Dr.) Jin Peng**  
Institute of Uncertain Systems  
College of Mathematics and Statistics  
Huanggang Normal University, China  
Topic- *Uncertain Optimization Based on*  
*Belief Degree*  
Time- 3.00 pm-3.50 pm



**Prof. (Dr.) Waichon Lio**  
Beihang University  
Beijing  
China  
Topic- *Uncertainty Statistics & its Application*  
Time- 4.00 pm- 4.50 pm

**Session Chair**  
**Prof. (Dr.) Pankaj Dutta**  
Decision Sciences & Operations Research  
Shailesh J. Mehta School of Management  
IIT Bombay, India  
Time- 2.00 pm-5.00 pm



**Day 3**  
**(16.12.2021)**



**Prof. (Dr.) Ivana Štajner-Papuga**  
Department of Mathematics & Informatics  
University of Novi Sad  
Serbia

**Topic- Fuzzy Measures & Integral Aggregation Operators in Decision making Theory**  
Time- 2.00 pm -2.45 pm

**Dr. Moti Zwilling**  
Department of Economics &  
Business Administration  
Ariel University, Samaria

**Topic- Application of UT in Business Management**  
Time- 3.00 pm-3.45 pm



**Dr. Sriparna Saha**  
Associate Professor  
Department of Computer Science  
IIT Patna  
India

**Topic- Multimodal Summarization Systems**  
Time- 4.00 pm-4.45 pm

**Session Chair**  
**Prof. (Dr.) Tarun Kanti Jana**  
Dean, School of Engineering  
Haldia Institute of Technology  
Haldia, West Bengal, India

Time-2.00 pm -5.00 pm



**Day 4**  
**(17.12.2021)**



**Dr. Doskočil Radek**  
Associate Professor  
Business & Management  
Institute of Informatics  
Brno University  
Czech Republic, UK

**Topic- Fuzzy Modelling in Project Management**  
Time- 2.05 pm-2.50 pm

**Dr. Roman Šeneřík**  
Associate Professor  
Department of Applied Informatics & AI  
Head of the AI Lab  
Tomas Bata University  
Zlin

**Topic- Recent Advances in Evolutionary Computation**  
Time- 3.00 pm- 3.45 pm



**Prof. (Dr.) Tanmoy Som**  
Applied Mathematics  
Indian Institute of Technology  
Benaras Hindu University (IIT, BHU)  
India

**Topic- Decision making Problems**  
Time- 4.00 pm-4.45 pm

**Session Chair**  
**Prof. (Dr.) Radhaballabh Bhar**  
Head, Department of Applied Science  
Maulana Abul Kalam Azad University  
of Technology (MAKAUT)  
West Bengal, India

Time- 2.00 pm-5.00 pm



**Day 5**  
**(18.12.2021)**



**Dr. Zuzana Janková**  
Brno University Technology  
Czech Republic  
UK

**Topic- Use of T2FL to Reduce Stock Market Prediction Uncertainty**  
Time-2.05 pm- 2.45 pm

**Dr. Soma Paul**  
Assistant Professor  
Indian Institute of Information Technology (IIT)  
Hyderabad, India

**Topic- Applied Grammar: Overcoming Language Barrier in Indian Context**  
Time- 3.00 pm-3.40 pm





**Dr. Manjira Sinha**  
Assistant Professor  
Centre for Educational Technology  
IIT, Kharagpur  
India

Topic- *Disambiguation of Word Ambiguity in NLP*  
Time- 3.50 pm - 4.30 pm

**Session Chair**  
**Dr. Palash Dutta**  
Asst. Professor  
Mathematics Department  
Dibrugarh University  
Dibrugarh, Assam, India

Time- 2.00 pm-4.30 pm



### **Registration Link**

<https://forms.gle/WfCKLsco2e7CZd9P6>

Registration is Free for all Participants

*E-certificate will be issued only to those who will join the Webinar for both the Days and will fill the given Feedback form timely. Feedback Form will be provided in the Chat box of Google meet at the end of each day.*

*(Limited Accommodation. So, hurry up for the Registration and please be there on time to Join us in Google Meet)*

*For all updates and Meeting (Google Meet /Zoom Meeting Link) Links Join the Telegram Group through the Registration form Contact no-9007346093*

### **Vote of Thanks**

**Prof (Dr.) Dipak Kumar Jana**  
Head, School of Applied Science and Humanities  
Haldia Institute of Technology  
Haldia, West Bengal  
India

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### **PROGRAM CONVENORS**

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Haldia Institute of Technology  
Haldia  
West Bengal  
India

**Dr. Priyanka Dey**  
Associate Professor  
School of Applied Science & Humanities  
Haldia Institute of Technology  
Haldia  
West Bengal, India

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