



IWADL 2023

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4th INDIAN WORKSHOP ON APPLIED DEEP LEARNING

June 12-16, 2023



@ BITS Pilani KK BIRLA Goa Campus, INDIA



Features:

- No Prerequisites
- Researchers and faculties from premier institutions
- Extensive Lab and Practicum exposure
- Extensive study material
- Focus on problem solving and research
- For small batch of students.

Lead Speakers:

- Prof. Chetan Arora**
IIT, Delhi
- Prof. Phalguni Gupta**
IIT, Kanpur (retd.)
- Dr. Aditya Nigam**
IIT, Mandi
- Dr. Debdoot Sheet**
IIT, Kharagpur
- Dr. Ashutosh Vyas**
Harman DTS India
- Dr. Heena Rathore**
Texas State University
- Dr. Ashutosh Bhatia**
BITS Pilani, Pilani Campus
- Prof. A P Singh**
BITS Pilani, Pilani Campus
- Dr. Geetika Arora**
IIIT, Hyderabad
- Dr. Tanmay Tulsidas**
BITS Pilani, KK Birla Goa Campus
- Dr. Sujith Thomas**
BITS Pilani, KK Birla Goa Campus
- Dr. Rajesh Kumar**
BITS Pilani, Pilani Campus
- Dr. Kamlesh Tiwari**
BITS Pilani, Pilani Campus

About the Workshop:

BITS Pilani (an institute of Eminence) proudly announce **4th Indian Workshop on Applied Deep Learning (IWADL-2023)** at its KK Birla Goa Campus. The workshop is intended for motivated professionals, undergraduate and postgraduate scholars, as well as faculty members who are interested in advancing their work in the field of deep learning. The workshop will comprise intensive lectures and hands-on sessions on fundamental and advanced topics, with the objective of exposing participants to the latest advancements in deep learning area. Three earlier offerings of Indian Workshop on Applied Deep Learning include IWADL2018, IWADL2019, IWADL2019Dec.

Objective and Scope:

With the recent advancements in technology and the increased use of GPUs for computation, deep learning based architectures have gained significant attention. These architectures have demonstrated the potential to solve a broad range of computer vision and NLP problems, achieving optimization over high dimensional parametric space. Top-tier conferences such as CVPR, ECCV, ICCV, NIPS, and ICLR have seen a significant amount of research leveraging the potential of deep learning architectures like CNNs, RNNs, Autoencoders, GANs, Transformers, Diffusion, and more to address problems in healthcare, finance, transportation, education, manufacturing, and entertainment. This workshop will focus on practical applications of deep learning and include sufficient hands-on sessions.

Workshop Topics:

- Magic of Deep Learning
- Machine Learning
- Perceptron and Neural Networks
- Training, Regularization, FC Networks
- Convolutional Neural Networks (CNN)
- CNN Case Studies – Popular Models
- Object Detection and Localization
- Sequence Modeling with RNN and LSTM
- Siamese Networks
- Transformers
- Large Language Models (LLM) ChatGPT
- Generative Modeling
- Autoencoders & VAE
- Generative Adversarial Networks (GAN)
- Secure and Explainable Deep Learning
- Deep Reinforcement Learning
- Diffusion Models

Registration:

Limited seats, first come first serve basis. **Fee** is as below:

Category	Early Registration	Late Registration
Regular students	₹ 12,000	₹ 15,000
Faculty Member	₹ 15,000	₹ 18,000
Industry Participants	₹ 20,000	₹ 25,000
International Participants	USD 400	USD 500

Registration includes food (Breakfast, Lunch, Dinner and Tea/Snacks during sessions) and hostel accommodation.

Special rates are applicable for BITS Pilani students. Contact coordinator/CSIS-office for the same.

Important Dates and Deadlines:

Early Registration	25 May, 2023
Late Registration	30 May, 2023
Participants shortlist	01 June, 2023
Workshop Dates	12-16 June, 2023

Some more experts, from other premier institutions\ Industry may also join.



Contact: Department of Computer Science & Information Systems, BITS PILANI, Pilani, Rajasthan-333031
Workshop Email: iwadl@pilani.bits-pilani.ac.in

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