

INTERNATIONAL WORKSHOP ON EXPLAINABLE/RESPONSIBLE ARTIFICIAL INTELLIGENCE AND MACHINE/DEEP LEARNING FOR UNDERSTANDING HUMAN BRAIN AND RELATED DISORDERS

WORKSHOP INTERNATIONAL SUR L'INTELLIGENCE ARTIFICIELLE EXPLICABLE / RESPONSABLE ET L'APPRENTISSAGE AUTOMATIQUE / PROFOND POUR LA COMPRÉHENSION DU CERVEAU ET DES PATHOLOGIES ASSOCIÉES

INDO-FRENCH CENTRE FOR THE PROMOTION OF ADVANCED RESEARCH (IFCPAR)
CENTRE FRANCO-INDIEN POUR LA PROMOTION DE LA RECHERCHE AVANCÉE (CEFIPRA)

Supported

INDIA-FRANCE Workshop

19th Feb to 21st Feb 2024

@KL University, Vijayawada,
Andhra Pradesh, India

BACKGROUND OF WORKSHOP

The main goal of the proposed workshop is to identify complementary areas in brain research in France and India as well as explore potential collaboration opportunities. Preventing neurological disorders and improving treatments is more necessary than ever now, as brain disorders such as Alzheimer's and Parkinson's disease are becoming more common among ageing populations. Globally, one in six of the world's population are affected by brain disorders and by 2050 the cases are projected to be tripled. Research in neurosciences in India falls into 3 sub-divisions, i.e., cognitive, systems and computational neurosciences. Major topics include modeling of sensory and multisensory perception, how the brain works in cellular or network levels, brain-inspired processing systems, and use of artificial intelligence (AI) in brain research. Key topics include major breakthroughs in genomics, applications of AI in brain data analysis, cellular and molecular neurobiology, cognitive, clinical and translational neuroscience. Explainable AI (XAI) is a new branch in AI research which aims towards helping medical experts to understand the decision processes behind decisions of AI models. XAI would form a key topic of discussion during this workshop. This could be a potential avenue for attracting interests and collaborations between academia, industry and clinics which are working on advanced AI powered solutions in brain focused healthcare applications. This workshop proposal which is jointly submitted by KL Deemed University in India and Paris Brain Institute from France could foster further collaborations between institutes and centers in India and France. Both countries have great potentials for advanced research in brain, neuroscience, neuropathology and artificial intelligence. This workshop could become the venue for collaborations of great minds and young researchers to lay the foundations for building a joint Indo-French Centre for brain and artificial intelligence research.

MAIN OBJECTIVES:

- ✓ To understand Human brain structure and function using AI/ML/DL
- ✓ AI/ML/DL in mapping Biomarkers for brain disorders
- ✓ To create a platform for young scientists/doctors to debate on this interdisciplinary research
- ✓ To identify the critical problems in brain research and finding novel ways to solve them
- ✓ To discuss potentials of AI explainability and AI responsibility in brain research with academic and industrial partners
- ✓ Novel brain-inspired AI technologies (federative learning, swarm AI, multiple instances learning, etc.)

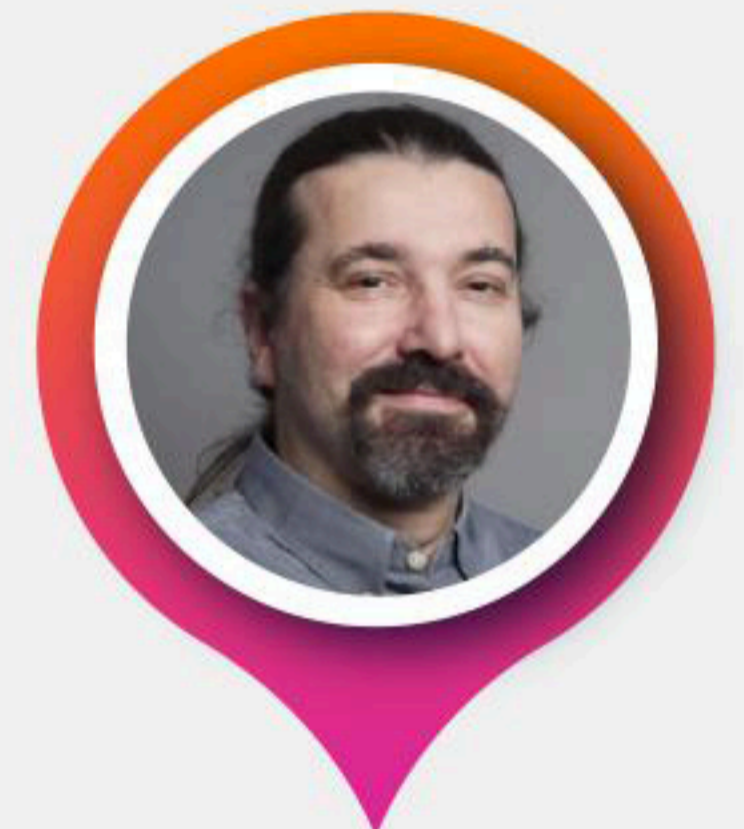
TOPICS COVERED IN WORKSHOP:

- ✓ Human brain mapping
- ✓ Cognitive Science
- ✓ Human Brain-Challenges from Cell and full brain
- ✓ Healthy Ageing of the Brain
- ✓ Neurodegenerative disorders
- ✓ Basic computational Neuroscience
- ✓ Advanced computational Neuroscience
- ✓ Computational Neuropathology
- ✓ Industry-Academic team Brainstorm workshop: Brain puzzle solving



Er. Koneru Satyanarayana

President and Chancellor,
KL University, A.P., India



Alexandre Escargueil

Head, Biomedical Humanities Initiative
Sorbonne Université
France



Dr. K S Jagannatha Rao

Pro-Chancellor,
KL University, A.P., India



Prof. Daniel Racoceanu

Professor at Sorbonne University
PI of the Paris Brain Institute
Paris, France



For Registration Details



Contact:

India :

N. Sobharani
+91 9010113509

E. L. Sowmya
+91 9346985236

Dr. M Vasuja Devi

e-mail: indofranceklu2023@gmail.com

France:

Dr. Anuradha Kar

e-mail: cefipra2023@gmail.com

