

- Generate a commentary for a given Shloka
- Sandi splitting using AI models
- Perform Sentiment Analysis

Geometric Deep Learning (GDL)

Geometric Deep Learning is a field in which we build neural networks that can learn insights from non-Euclidean data. Examples of non-Euclidean data types are Graphs, Point Clouds, and Manifolds. The Theory of Representation of Groups discusses the symmetry of a given Group. There are some developments in GDL using the symmetry of the Permutation Group. We are developing Deep Neural Networks for the segmentation of medical images using Clifford Algebras.

Physics

Nanomaterials for Magnetic, Dielectric, and Electromagnetic Interference Shielding Applications

Tin-doped magnetite ($\text{Sn}_x\text{Fe}_{3-x}\text{O}_4$) nanoparticles-based polymer nanocomposites were developed for magnetic, dielectric, and electromagnetic shielding applications. The tin-doped magnetite nanoparticles were dispersed in PVDF polymer matrix and electroactive-superparamagnetic $\text{SnO}_2\text{Fe}_2.8\text{O}_4$ -PVDF nanocomposite films were fabricated. The dielectric constant of the $\text{SnO}_2\text{Fe}_2.8\text{O}_4$ -PVDF nanocomposite films was enhanced by the addition of conducting Lanthanum Nickelate (LaNiO_3) nanoparticles. These composite films may be useful for energy storage applications. Also, the development of an absorption-dominant microwave shield with excellent shielding effectiveness was achieved by the addition of graphite to the $\text{SnO}_2\text{Fe}_2.8\text{O}_4$ -PVDF nanocomposite films. The flexible films meet the commercial standards of shielding effectiveness for X-band frequency EM waves.

A Collaborative & an Exploratory Research Project on Implementation of Deep Learning Techniques for Biomedical/ Radiological Imaging with SSSIHMS & SSSIHL

Department of Physics along with DMACS have jointly undertaken a project in the Department of Urology in detecting Extra-pulmonary Tuberculosis in CT-based radiological imaging. The Clinical research team has been actively engaged in developing a Deep learning-based tool to detect GUTB which has a unique issue of nonlocalized growth zones /disease progression, unlike other renal disorders. A new DL-based GUTB detection tool and a User Interface module have been developed for the clinical user to easily use the DL model for detection. More data collection and validation are in progress to complete the project.

Fabrication of Versatile Nanomaterials for Water Remediation which will Pave the way for State-of-the-Art Water Purification Technologies

With zeal to help the local as well as the global populace in dealing with the colossal challenges of contaminated water, researchers at the Department of Physics have been developing versatile and multifunctional nanomaterials that

can simultaneously adsorb multiple contaminants from water thereby reducing the cost of water purification technology. These tailor-made, novel, and efficient nano adsorbents pave the way for the development of cost-effective water filter prototypes.

Ultrafast Fiber Lasers

Ever since their invention in the 1960s, LASERs have taken Science and Technology to a whole new level of existence. Among different types of lasers, Ultrafast lasers have been a hot topic of research in the last few decades owing to their myriad advantages. Ultrafast lasers emit a train of ultrashort pulses whose timespans are of the order of pico/femtoseconds. Such ultrashort pulses are extremely useful for applications that require high temporal resolution, high energy, intensity, and power. This Research area involves the development, characterization, and optimization of ultrafast fiber lasers through experiments, mathematical modeling, and simulations. The study of new fiber lasers, novel materials for saturable absorbers, and the development of in-house characterization facilities are important features of this research work. These ultrafast lasers will find applications in areas like OCT, micromachining, microscopy, spectroscopy, and sensing.

The Femtosecond Micromachining for Lab-on-a chip Applications

Optofluidic lab-on-a-chip applications utilize optical waveguides embedded in fused silica alongside micro-channels that provide paths for fluids to flow. These 'lab-on-a-chip' platforms can be used for a variety of biosensing applications through fluorescence-based detection, interaction of evanescent fields with the analyte in the micro-channels, excitation of surface plasmon polaritons, as well as a variety of interferometric schemes. Our research aims to fabricate and integrate microchannels, waveguides, substrates for surface-enhanced Raman scattering (SERS), and electrodes in fused silica using femtosecond laser micromachining, customized for constructing specific sensing devices.



Funded Research Projects

SSSIHL continues to pursue needs-based research that will help alleviate problems affecting the poorer sections of society. During the academic year 2022-23, the total value of ongoing projects at the University was ₹2.19 Crores.

Biosciences

Understanding the Mechanisms Involved in the Emergence of Heteroresistance among Enterobacteriaceae

Indian Council of Medical Research (ICMR)

₹50 Lakhs

Exploration of Simultaneous Fluorescence and Phase Contrast Optical Imaging Methods Using Novel Fourier Optical Techniques for System Biology Applications

Society for Assistance International-USA

₹2.43 Lakhs

Food And Nutritional Sciences

Anti-diabetic Evaluation of Indian Pigmented Rice Varieties: A Mechanistic Metabolomic Based Approach

Indian Council of Medical Research (ICMR)

₹24 Lakhs

Humanities And Social Sciences

Economics

A Structural Model of the Current Account of India's Balance of Payments Under the New Economic Policy Regime

Indian Council of Social Science Research (ICSSR) -

IMPRESS SCHEME

₹3.15 Lakhs

Mathematics and Computer Science

Time-Optimal Control Problems and Bifurcation Analysis of Coupled Non-Linear Dynamical Systems with Application to Pest Eradication

National Board for Higher Mathematics (NBHM)

₹15 Lakhs

Role and Interactions of Biological Markers in Causation of Type 1/Type 2 Leprosy Reactions: A In Vivo Mathematical Modelling with Clinical Validation

The Council of Scientific & Industrial Research (CSIR)

₹15 Lakhs

Insurance Fraud Classifier for Health Insurance.

CAS Individual Grants Competition 2022

Casualty Actuarial Society, USA.

₹14 Lakhs

Physics

State-of-the-art, Low Cost, Dental Implant System Development Research Grant in Collaboration with Uppsala University, Sweden

Swedish Medical Council

₹64.38 Lakhs*

(*Note: The grant money will be administered by Uppsala University, Sweden)

Neutron Induced Reaction Cross-Section Measurements on Structural Materials Using Direct and Surrogate Technique

DAE-BRNS

₹31 Lakhs



Research Publications in Peer-Reviewed Journals

Biosciences

- Sai Sanwid Pradhan, Raksha Rao, K., Meghana Manjunath, Saiswaroop, R., Durga Prasad Patnana, Kanikaram Sai Phalguna, Bibha Choudhary, and Venketesh Sivaramakrishnan. (2023). Vitamin B6, B12 and Folate Modulate Deregulated Pathways and Protein Aggregation in Yeast Model of Huntington Disease. **3 Biotech**, 13 (3), 96. DOI: [10.1007/s13205-023-03525-y](https://doi.org/10.1007/s13205-023-03525-y).
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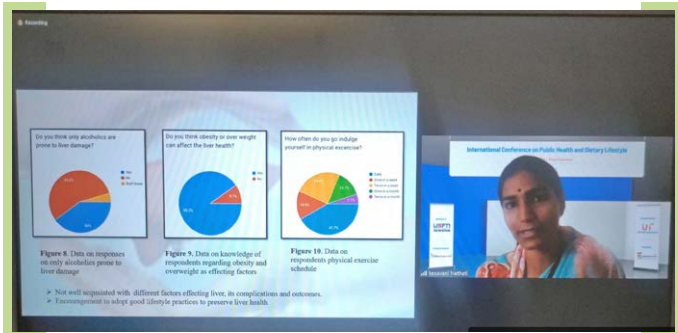
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