

CSE Department Activities in the Month of April, 1 to April 30, 2022

Conference Publications:

1. Abhinav Kaushik, Geeta Sikka, and Urvashi Bansal. "A Novel Hybrid User Authentication Scheme for IoT Systems Using Eeg Signal Pattern and Iris Pattern." International Conference on Advanced Research in Computer Science and Information Technology (ICARCSIT), 2022. (Accepted)
2. Abhinav Chola, Samayveer Singh, and Lalit K Awasthi, "An Analysis Study of Security Threats, Vulnerabilities Challenges of Cyber-Physical Systems" International Conference on Recent Innovations in Computing, 2022. (Accepted)
3. Ravi Kumar and Samayveer Singh, "Performance Analysis of User Authentication Schemes in Wireless Sensor Networks" International Conference on Recent Innovations in Computing, 2022. (Accepted)
4. Javaid Ahmad Wani, Samayveer Singh, Aruna Malik, and Pradeep Kumar Singh, "An Analysis Study of Security Threats, Vulnerabilities Challenges of Cyber-Physical Systems" International Conference on Recent Innovations in Computing, 2022. (Accepted)
5. Aniket Kadukar and Urvashi Bansal, "Modified SIMON approach towards lightweight cryptography scheme for multi-data key pair combination." International Health Informatics Conference, 2022. (Accepted)
6. Tejas Shelatkar and Urvashi Bansal "Diagnosis of Brain Tumour Using Light Weight Deep Learning Model with Fine Tuning Approach" in the 4th International Conference on Machine Intelligence and Signal Processing (MISP2022) (Accepted)
7. A. B. Singh, Lalit K. Awasthi, and Urvashi, Defense against Adversarial Attacks using Chained Dual-GAN Approach. Springer - Algorithms for Intelligent Systems, International Conference on Smart Data Intelligence 2022. (Accepted)
8. Ashish Kumar and Jagdeep Kaur, "Review of Soil Classification Techniques using Machine Learning, Deep Learning, and Computer Vision" International Conference on Recent Innovations in Computing, 2022. (Accepted)
9. Prashant Kumar and Jagdeep Kaur, "COVID-19 Prediction from CT and X-Ray Scan Images: A Review" in Springer's International Health Informatics Conference, IHIC 2022, 2022. (Accepted)

Patents Filed:

1. Mr Abhinav Kaushik, Dr Geeta Sikka, and Dr Urvashi Bansal have filed a patent on "A novel Hybrid Authentication device for user authentication in IoT systems combining EEG signals pattern and Iris pattern recognition".
2. Dr Aruna Malik et al. have filed a patent on "Identification of the objects in railway track using thermal technology and alerts the loco pilot".

Copyrights Filed:

1. Tejas Shelatkar and Urvashi Bansal, have filed a copyright on "Algorithm for Diagnosis of Brain Tumour using Light Weight Deep Learning model with fine tuning approach".
2. A. B. Singh, Lalit K. Avasthi, and Urvashi, have filed a copyright on "Chained Dual Generative Adversarial Network: Adversarial Defense Algorithm".

Course Organised:

1. Prof Anish Sachdeva, Dr. Monica Sikka and Dr. Urvashi have organized a two days' workshop on "Design of Experiments" on 21st and 22nd April, 2022.

Outreach Activities:

1. Dr K P Sharma has served as an external examiner for Ph.D. viva-voce exam of Mr. Vijay L Hallappanavar of VTU University Belagavi Karnataka on 07/04/2022.

Project Submitted:

1. Dr Lalatendu Behera and Dr Kunwar Pal have submitted a project on "Design and Analysis of Criticality-aware Power Consumption and Fault-tolerance Scheduling Algorithms in clairvoyant and semi-clairvoyant Mixed-Criticality Systems" in the Core Research Grant, Department of Science and Technology.

Other Works:

1. Dr Jagdeep Kaur has registered as a volunteer in Vidyanjali Higher Education by the Ministry of education, Government of India to provide academic services to other Institutes.
2. Dr Jagdeep Kaur has participated and presented the status of the project "Setting up of STI led SC Clusters in Punjab" sponsored by Punjab State Council of Science & Technology Chandigarh and Department of Science & Technology, Govt. of India, in the online Review meeting held on 12th Apr. 2022.