

## **CSE Department Activities in the Month of December, 1 to December 31, 2022**

### **Journal Publications**

- Ravi Kumar, Samayveer Singh and Pradeep Kumar Singh, “A secure and efficient computation based multifactor authentication scheme for Intelligent IoT-enabled WSNs” Computers and Electrical Engineering, vol. 105, 108495, 2022.
- A. B. Singh, L. K. Awasthi, Urvashi, M. Shorfuzzaman, A. Alsufyani et al., “Chained dual-generative adversarial network: a generalized defense against adversarial attacks” Computers, Materials Continua, vol. 74, no.2, pp. 2541–2555, 2023.
- Chinu, Urvashi, “Explainable AI: To reveal the logic of Black-box models”, New Generation Computing, Springer. (Accepted)
- Gupta A, Jain V, Singh A. Stacking ensemble-based intelligent machine learning model for predicting post-COVID-19 complications. New Generation Computing, 40(4):987-1007, 2022.
- Gupta A, Singh A. Healthcare 4.0: recent advancements and futuristic research directions. Wireless Personal Communications, 28:1-20, 2022.

### **Conference Publication**

- Ayushman Pandey and Jagdeep Kaur, “Enhancing Security and Performance of Software Defect Prediction Models: A Literature Review” in Second International Conference on Security, Privacy and Data Analytics (ISPDA-2022) (Presented) Organized by the Department of Computer Science and Engineering, SVNIT Surat
- Mayank Pandey and Samayveer Singh, “A Review on Various Deepfakes Detection Methods” Proceedings of Fourth International Conference on Computing, Communications, and Cyber-Security: IC4S 2022. (Presented)
- Anjali Gupta, Lalit K Awasthi, and Samayveer Singh, “Steganography Methods for GIF Images: A Review” Proceedings of Fourth International Conference on Computing, Communications, and Cyber-Security: IC4S 2022. (Presented)
- Riya Punia and Aruna Malik, “Image Interpolation-based Steganographic Techniques under Spatial domain: A Survey” Proceedings of Fourth International Conference on Computing, Communications, and Cyber-Security: IC4S 2022. (Presented)
- Raju Pratap Sharma and Aruna Malik, “A Comparative Review on Image interpolation based Reversible Data Hiding” Proceedings of Fourth International Conference on Computing, Communications, and Cyber-Security: IC4S 2022. (Presented)

### **STC Organized:**

- Dr. Avtar Singh, Dr. Lalatendu Behera, and Dr. Kunwar Pal have organized an Online self-sponsored FDP on "Cloud Computing and Its Applications: Opportunities and Challenges" from 16th December - 20th December 2022.

## **Outreach Activities**

- Exposure Visit of Self-help group members, Karari Jalandhar to Krishi Vigyan Kendra (KVK), Nurmahal, Jalandhar was organized on 15<sup>th</sup> December 2022 by Dr. Geeta Sikka, HoD, CSE Dept., Dr. Jagdeep Kaur, Assistant Professor & PI (CSE Dept.), and Mr. Hardeep Singh (Field Assistant, Project). The event was sponsored by the Punjab State Council of Science & Technology (PSCST Chandigarh) and the Dept. of Science & Technology, Govt of India, under the joint project “Setting Up Science Technology & Innovation Hub in Jalandhar”. The rural women were apprised about the KVK facilities and were shown different units like Poly House Demonstration, Bee Keeping Demonstration Unit, Vermicomposting Demonstration unit, Soil and water testing laboratory, Home Science Lab, and Integrated farming system model unit.
- Three Day training on “Advanced Mushroom Cultivation” at Karari and Sarmastpur villages of Jalandhar was organized by Dr. Geeta Sikka, HoD, CSE Dept., Dr. Jagdeep Kaur, Assistant Professor & PI (CSE Dept.), and Mr. Hardeep Singh (Field Assistant, Project), in Nov-Dec 2022. The event was sponsored by the Punjab State Council of Science & Technology (PSCST Chandigarh) and the Dept. of Science & Technology, Govt of India, under the joint project “Setting Up Science Technology & Innovation Hub in Jalandhar”.
- Dr. Jagdeep Kaur acted as an external reviewer of PhD Thesis scholar from the Computer Science & Engineering Dept., Manipal University, Jaipur, Rajasthan.