

IOT TODAY

Latest news and bulletin updates Technical, Curricular, Co-curricular, Research

Startup launched RoboBuy



Ishaan Singh Negi (Reg, no. 229302382) successfully launched startup а "RoboBuy". The start up is а cutting-edge online marketplace dedicated to robotics and electronic products and kits. Their platform offers a wide range of products designed to inspire and support creativity in the world of technology.

This achievement marks a significant milestone in their mission to provide enthusiasts, educators, and professionals with access to high-quality components and innovative tools. You can check out the link: https://robobuy.in/

Participation in OJAS 2024 12-14 April, 2024

Dev Taneja (Reg. No. 229303259) and his team participated in Basketball competition in OJAS 2024 from April 12-14, 2024, at UPES, Dehradun.



Won First Position at Autobots 2.0



that raced flawlessly, penalty free and fasted in the competition. The team explored diverse techniques and algorithms to reach the winning formula.



Issue#2



Dear students and colleagues, our pursuit of knowledge and innovation enriches the community and propels us forward. Being a part of Computing and Intelligent Systems, let's continue to collaborate, inspire, and drive positive change together.

Best Wishes

Prof. V. S. Dhaka (Director), School of Computing and Intelligent Systems

Desk of HoD, IoT & IS



V ansh Kumar Singh (Reg.

no. 229311079) and his

teammate won the First

position at Autobots2.0

hosted by ACM, MUJ, on 8 April 2024. The team developed an automatic maze traversing auto boat the competition. The team reach the winning formula. Dear Friends, remember that every challenge is an opportunity to grow. Keep pushing your boundaries and embracing new knowledge. Your dedication is the key to unlocking endless possibilities.

Summer School Southern Federal University, Taganrog, Russia



Wishing you continued success in all domains.

Dr. Geeta Rani (HoD), IoT and Intelligent Systems

Editor: Dr. Hemlata Goyal (Faculty) Mr. Ritwik Garg (Student)

Priyanshu Shekhar (Reg. No. 219311096) completed an International Summer School on Telecommunications and Information Technologies organized by Southern Federal University in collaboration with MUJ at Taganrog, Russia in the month of June.





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Department Activities

Workshop on "Effective Strategies of Research Article Writing and Publishing" April 09, 2024



The School of Computing and Intelligent Systems, Manipal University Jaipur in collaboration with MUJ-TEC organized a one-day workshop on "Effective Strategies of Research Article Writing and Publishing" on April 09, 2024. The aim of the workshop is to help the participants to structure the scientific content in a rightful manner and discussed new tools of scientific publishing



The sessions were focused on providing guidelines to the participants regarding "How to prepare a manuscript", "How to select a Journal for your work", "Submission Ethics" etc. With the help of hands-on practices as well as query sessions, participants were able to understand different ways to write the effective research articles.

STC on "Evolving Artificial Intelligence" 28th May - 1st June 2024

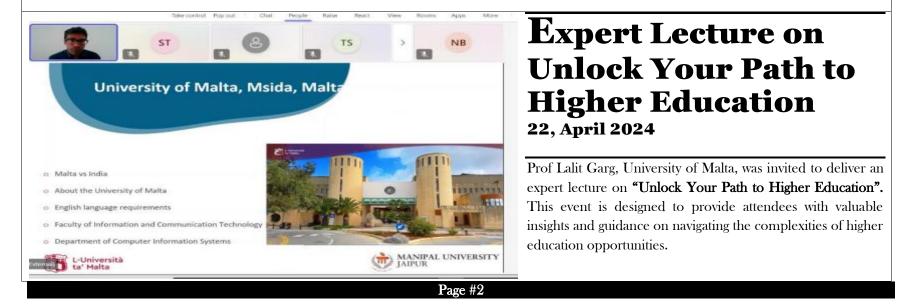


"Evolving was a colla Department and Engine the Depa Intelligent University conducted June 2024. provide understandi of Artificial

The short-term course on "Evolving Artificial Intelligence" was a collaborative effort of the Department of Computer Science and Engineering, NIT Delhi, and the Department of IoT & Systems, Manipal University Jaipur. The STC was conducted from 28th May to 1st June 2024. This course aimed to comprehensive а understanding of the dynamic field of Artificial Intelligence (AI). Over the course of five days,

approximately 80 registered participants, along with committee members and subject experts, had the opportunity to engage in 10 expert sessions. These sessions were conducted by highly experienced experts, Prof. Seema Bawa, Professor, Thapar Institute of Engineering & Technology, Patiala, Dr. Rajneesh Rani, Associate Professor, NIT

Jalandhar, Dr. Amandeep Kaur, Assistant Professor, IIIT Gwalior, Prof. Lalit Garg, Associate Professor, University of Malta, Malta, Prof. T. V. Vijay Kumar, Professor, JNU Delhi, Dr. Nonita Sharma, Associate Professor & Manager (International Affairs), IGDTUW New Delhi, Mr. Vidyadhar Aski, Head, Emerging Technology CoE @Mahindra group, AI Integration Specialist, Digital Transformation Enabler, Corporate R&D, Dr. Eugenio Vocaturo, University of Calabria, Italy, Dr. Ester Zumpano, Associate Professor, University of Calabria, Italy, Prof. Ram Bilas Pachori, Professor, IIT Indore from both industry and academia, offering a diverse perspective on the latest advancements and applications of AI. The topics covered during the course were wide-ranging and included machine learning, deep learning, generative AI, applications of machine learning, AI in healthcare, disaster management, digital twin, and industry automation. This event not only facilitated knowledge sharing but also fostered discussions on the future directions on AI, enabling participants to stay abreast of current trends and innovations in this rapidly evolving field.





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MANIPAL UNIVERSITY D Springer ourth International Conference novations in Computational Intelligence and Computer Vision ICICV-2024 April 10-11, 2024 Organized by: hool of Computer and Communica Engineering, Faculty of Engineerin copus **CALL FOR PAPERS** ICICV 2024 invites industry professionals/ academicians/ researchers for submitting their original, previously unpublished and high quality research papers. The PUBLICATION Lecture Notes in Networks and Systems (ISSN: 2367-3370) Indexed by SCOPUS, DBLP, INSPEC, SCImago, etc. nonference will be focused on addressing research hallenges in the field of "Computational Intelligence" and Computer Vision", but not limited to the followings: Image Processing Internet of Thing PAPER SUBMISSION Machine Lear https://cmt3.research.microsoft.com/ICICV2024 Natural Language Proce Pattern Recognition **IMPORTANT DEADLINES** Paper Submission: Jan. 15, 2024 Notification of Acceptance: Jan. 31, 2024 Feb. 15, 2024 Feb. 29, 2024 ta Analytics • Software Enginee tabases & Data Mining • Web Intelligence **REGISTRATION FEE** Category Indian (INR) International (USD) searchers 10000 12000 14000 2500 of 18% GST **ORGANIZING PARTNERS** \$200 \$250 \$300 \$100 L-Università ta' Malta Convener: Dr. Deepak Sinwar (+91-9416164461) Dr. Satyabrata Roy (+91-8890257867 · www **Organizing Committee:** Prof. Sunil Kuma HoD - CCE, MUJ

The conference received a total of 495 research paper submissions from different countries including Hong Kong, USA, Phillipines, Ethiopia, UAE, Indonesia, Sri Lanka, Oman, France, Spain, Ecuador, Bangladesh, Iraq, Zambia, Vietnam, Italy, and India. After careful examination by technical program committee of ICICV 2024 followed by single blinded review process, 80 qualitative submissions based on the thrust areas of the conference were selected (with an acceptance rate of 16.16%) for oral presentations.

4th International Conference on Innovations in Computational Intelligence and Computer Vision (ICICV-2024) April 10-11, 2024

The School of Computing and Intelligent Systems, Manipal University Jaipur organized the 4th International Conference on "Innovations in Computational Intelligence and Computer Vision" (ICICV-2024) during April 10-11, 2024 in hybrid mode. Partner Institutions for ICICV-2024 were • CNR Nanotec - Institute of nanotechnology, Italy • DIMES, University of Calabria, Italy, and • University of Malta, Malta.







Expert Lecture ON Research **Trends** in Artificial Intelligence, April 11, 2024

Prof Eugenio Vocaturo from the University of Calabria, Italy, and CNR NanoTec- Institute of Nanotechnology, Italy, has delivered an expert lecture (online mode) on Research trends in Artificial Intelligence, dated 11th April 2024 at Manipal University Jaipur. This lecture aims to explore the cutting-edge advancements and the evolving landscape of AI research, including breakthroughs in

machine learning, neural networks, and AI applications across various industries. Students, faculties, and researchers gained insights into the innovative methodologies and emerging technologies driving AI forward, as well as the ethical considerations and future implications of AI developments along with staying at the forefront of AI knowledge and leveraging these insights for academic, personal, or professional growth.

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IOT TODAY Internship & Placement

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Internships at NOKIA, PHILIPS, MAERSK, ISRO...





Jeevant Singh (Reg.No 229311042) Summer Programme in IIM Udaipur

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Internship & Placement

Top Researcher of The Month Award

April 2024	May 2024	June 2024
 Dr G.L. Saini Dr Geeta Rani Dr Vijaypal Singh Dhaka 	 Dr G.L. Saini Dr Vijaypal Singh Dhaka, Dr Gyanendra Kumar Dr Hemlata Goyal 	 Dr Gyanendra Kumar Dr G.L. Saini & Dr Rohit Mittal Rajesh Kumar, Dr. Deepak Sinwar

JOURNAL PUBLICATIONS

Kumar, R., Sinwar, D., & Singh, V. (2024). Analysis of QoS aware traffic template in n78 band using proportional fair scheduling in 5G NR. Telecommunication Systems, 1-16, https://link.springer.com/article/10.1007/s11235-024-01169-8, June 2024.

Kumar, R., Sinwar, D., & Singh, V. (2024). Experimental evaluation of MU-MIMO in TDD environment for 5G NR using exploiting channel reciprocity. International Journal of Information Technology, 1-16,https://link.springer.com/article/10.1007/s41870-024-01946-3, June 2024.

Tripti Dua, Neha Singh, Renu Kumawat, "Novel Approaches to High-Speed Energy Efficient 2:1 Multiplexer Design", Journal of Xidian University, Vol 18, p 311-326, July 2024, https://doi.org/10.5281/Zendo.12680965 (Scopus Q3)

Joon, R., Tomar, P., Kumar, G., Balusamy, B., & Nayyar, A. (2024). Unequal Clustering Energy Hole Avoidance (UCEHA) algorithm in Cognitive Radio Wireless Sensor Networks (CRWSNs). Wireless Networks, 1-23.

Singh, S. P., Kumar, N., Kumar, G., Balusamy, B., Bashir, A. K., & Al-Otaibi, Y. D. (2024). A Hybrid Multi-Objective Optimisation for 6G-Enabled Internet of Things (IoT). IEEE Transactions on Consumer Electronics.

Pragya, Kumar, B., & Kumar, G. (2024). Optimized Duplicate Address Detection for the Prevention of Denial-of-Service Attacks in IPv6 Network. IETE Journal of Research, 1-26.

Kumar, G., & Pragya. (2024). IPv6 addressing with hidden duplicate address detection to mitigate denial of service attacks in the internet of drone. Concurrency and Computation: Practice and Experience, e8131.

Singh, Kiran Deep , Singh, Prabh Deep, Saini, G. L. & Panwar, Deepak (2024) Privacy-preserving cryptographic solutions for medical image protection : The secure force algorithm and intelligent encryption systems, Journal of Discrete Mathematical Sciences and Cryptography, 27:2-A, 537-546, DOI: 10.47974/JDMSC-1926

Singh, Kiran Deep , Singh, Prabh Deep , Saini, G. L. , Panwar, Deepak & Goyal, Dinesh (2024) Cryptographic security for IoT : Leveraging Feistelpermutation network for enhanced encryption, Journal of Discrete Mathematical Sciences and Cryptography, 27:2-B, 559–568, DOI: 10.47974/JDMSC-1890

Mittal, Rohit, Pathak, Vibhakar, Saini, G. L. & Raja, Linesh(2024) A novel method for vehicular network system using static QR code for bituminous roads, Journal of Discrete Mathematical Sciences and Cryptography, 27:4, 1271–1281, DOI: 10.47974/JDMSC-1981

CONFERENCE PUBLICATIONS

Khandelwal, J., Sharma, V.K. (2024). Reversible Image Steganography Using Deep Learning Method: A Review. In: Bhattacharyya, S., Banerjee, J.S., Köppen, M. (eds) Human-Centric Smart Computing. ICHCSC 2023. Smart Innovation, Systems and Technologies, vol 376. Springer, Singapore

Paper presented on "Intelligent Basketball Sports Management System Computing Individual Player's Performance" in National Symposium on Multidisciplinary Research Trends For Sustainable World (MRTSW-s4) held from 22 to 23 May 2024 and organized by Chitkara University Punjab

Utsav, O., Saini, G.L., Panwar, D. (2024). Impact of Machine Learning in Cybersecurity: A Critical Review with Insights on the Internet of Things. In: Das, S., Saha, S., Coello, C.A.C., Rathore, H., Bansal, J.C. (eds) Advances in Data-Driven Computing and Intelligent Systems. ADCIS 2023. Lecture Notes in Networks and Systems, vol 890. Springer, Singapore. https://doi.org/10.1007/978-981-99-9531-8_29

Kesarwani, T., Mittal, R., Panwar, D., Saini, G.L., Kumar, S. (2024). Facial Recognition Model Using Custom Designed Deep Learning Architecture. In: Sharma, H., Shrivastava, V., Tripathi, A.K., Wang, L. (eds) Communication and Intelligent Systems. ICCIS 2023. Lecture Notes in Networks and Systems, vol 969. Springer, Singapore. https://doi.org/10.1007/978-981-97-2082-8_32

Kiran Deep Singh, G L Saini, and Prabh Deep Singh. 2024. Leveraging Transfer Learning for Improved Diagnostics in Dermatology. In Proceedings of the 5th International Conference on Information Management & Machine Intelligence (ICIMMI '23). Association for Computing Machinery, New York, NY, USA, Article 160, 1–5. https://doi.org/10.1145/3647444.3652465

Jain, K., Panwar, D., Saini, G.L., Kumar, S. (2024). Emotional Landscape of Social Media: Exploring Sentiment Patterns. In: Sharma, H., Shrivastava, V., Tripathi, A.K., Wang, L. (eds) Communication and Intelligent Systems. ICCIS 2023. Lecture Notes in Networks and Systems, vol 969. Springer, Singapore. https://doi.org/10.1007/978-981-97-2082-8_33

PATENT PUBLICATIONS

- 1. Rank-Based Multi-Path Transmission Control Protocol (Patent No.-202411039616)
- 2. Enhanced IPv6 Duplicate Address Detection to Combat DoS Attacks (Patent No.-202411048150)

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