

**MONTHLY EDITION
(FEBRUARY 2024)**

2024 CURRENT AWARENESS BULLETIN

**(List of Research papers /Articles published by
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| 2. | <u>A human activity recognition framework in videos using segmented human subject focus</u> | Gupta, S.,
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Puri, N.K | Visual Computer |
| 3. | <u>A Hybrid Approach for Soil Nutrient Estimation using Multispectral Data in Belgium and Luxembourg</u> | Jain, S.,
Sethia, D.,
Tiwari, K.C | 1st International Conference on Advances in Electrical, Electronics and Computational Intelligence, ICAEECI 2023. |
| 4. | <u>A Reliable and high performance Radiation Hardened Schmitt Trigger 12T SRAM cell for space applications</u> | Soni, L.,
Pandey, N. | AEU - International Journal of Electronics and Communications, 176, art. no. 155161. |
| 5. | <u>A review of energy dissipation on different types of spillways (Open Access)</u> | Pujari, S.,
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| 7. | <u>A Systematic Review on Predicting the Performance of Students in Higher Education in Offline Mode Using Machine Learning Techniques</u> | Rahul, Katarya, R. | Wireless Personal Communications. |
| 8. | <u>Abrasive flow finishing of 3D-Printed Aerofoils: Design, numerical Simulation, and experimental analysis</u> | Wahab Hashmi, A.,
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| 9. | <u>Acid hydrolysis of Solanum tuberosum periderm for accumulation of polyhydroxyalkanoates in Pseudomonas putida MTCC 2475 (Open Access)</u> | Kag, S.,
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| 10. | <u>Active suspension control of light motored vehicles using PID and neural controllers (Open Access)</u> | Kharola, A.,
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58, art. no. 104917. |
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| 12. | <u>Altered DTI scalars in the hippocampus are associated with morphological and structural changes after traumatic brain injury</u> | Arora, P.,
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| 13. | <u>An overview of cold metal transfer welding of similar materials</u> | Singh, I.J.,
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| 14. | <u>Analysing the impact of day-night road traffic variation on ultrafine particle number size distribution and concentration at an urban site in the megacity Delhi</u> | Mohan, V.,
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15(4), art. no. 102065. |
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| 15. | <u>Analyzing Barriers in Adoption of Artificial Intelligence for Resilient Health Care Services to Society</u> | Kumar, G.,
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| 18. | <u>Bff: Bi-stream feature fusion for object detection in hazy environment</u> | Singh, K.,
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| 19. | <u>Bff: Bi-stream feature fusion for object detection in hazy environment</u> | Singh, K.,
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| 20. | <u>Biogenic Silver Nanoparticle and Their Applications</u> | Mohan, L.,
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| 23. | <u>Coal power plant-enabled grid resilience through distributed energy resources and demand response integration</u> | Saxena, V.,
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| 25. | <u>Combined effect of rashba spin-orbit interaction, hydrostatic pressure and temperature on energy dispersion based ballistic conductance of InAs tunnel-coupled (double) quantum wire under exterior magnetic and electric field</u> | Kumar, S.,
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| 27. | <u>Computational Study of 2D Flow Past a Circular Cylinder Oscillating Transversely to Incoming Flow</u> | Goyal, A.,
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| 28. | <u>Contrastive deep convolutional transform k-means clustering</u> | Goel, A.,
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| 29. | <u>Control of DSTATCOM with Parallel Tangent Method Based Adaptive Control Algorithm under Distorted Grid Conditions</u> | Bansal, P.,
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| 30. | <u>Correction: Thermodynamic and exergoenvironmental assessments of solar-assisted combined power cycle using eco-friendly fluids (Journal of Thermal Analysis and Calorimetry, (2023), 10.1007/s10973-023-12760-7) (Open Access)</u> | Khan, Y.,
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14, art. no. 1279234. |
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| 33. | <u>Determinants of long-term
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| 34. | <u>Development of KNNLTS–PVDF-
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| 35. | <u>Device Optimization of T-shaped
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| 37. | <u>ECG Signal Denoising Techniques for Cardiac Pacemaker Systems</u> | Kumar, A.,
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| 38. | <u>ECG Signal Detection and Lossless Data Compression Techniques for Implantable Cardiac Pacemaker Systems</u> | Kumar, A.,
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| 39. | <u>Effect of Bracing Structural System on the Seismic Response of High-Rise Reinforced Concrete Building for Strengthening with Soft Storey.</u> | Mohammed, T.A.G.,
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| 40. | <u>Effect of magnetic field on mechanical properties of an advanced high strength steel sheet</u> | Datt Yadav, R.,
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| 42. | <u>Effects of different types of roofs under wind loads for low-rise structures.</u>
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| 43. | <u>Electroactive Conduits for Neuroregeneration: A Step Ahead</u> | Gulati, I.,
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| 44. | <u>Emerging trends in gastrointestinal cancers: Targeting developmental pathways in carcinogenesis and tumor progression</u> | Ahmad, A.,
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| 45. | <u>Enhanced mechanical properties of MWCNT reinforced ABS nanocomposites fabricated through additive manufacturing process</u> | Singh, P.,
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109(1), art. no. 012404. |
| 47. | <u>Environmental Pollutants Remediation Using Phyto-Nanoparticles: An Overview on Synthesis, Characterization, and Remediation Potential</u> | Pal, R.,
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| 48. | <u>Existing Methods to Evaluate Pacemaker Device Performance</u> | Kumar, A.,
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| 50. | <u>FTL-Emo: Federated Transfer Learning for Privacy Preserved Biomarker-Based Automatic Emotion Recognition</u> | Kumar, A.,
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| 52. | <u>Green Emission of Erbium Doped SYW Phosphors for Optical Thermometry And Solid-State Lighting</u> | Kumari, S.,
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| 54. | <u>Hardware Design for a Water-Based Solar Panel Cleaning Robot for Residential Purpose</u> | Vyas, R.,
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| 55. | <u>High-k dielectric based high performance vertical organic thin film transistor for flexible low power applications</u> | Yadav, S.,
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| 57. | <u>Improved frequency compensation technique of three stage amplifier using class AB flipped voltage follower and slew rate enhancer circuit</u> | Gupta, O.K.,
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| 58. | <u>Innovative Approach to Android Malware Detection: Prioritizing Critical Features Using Rough Set Theory (Open Access)</u> | Gupta, R.,
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| 59. | <u>Introduction to Bio-Nanotechnology</u> | Anand, R.,
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| 60. | <u>Investigating the impact of vetiver grass composite with rice husk ash on soil shear strength</u> | Panchal, S.,
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| 62. | <u>Investigation of Bending Effect on Steel-Concrete-Steel (SCS) Sandwich Composite Sections Considering Width-Thickness Ratio and Global Provisional Codes Validation</u> | Al Agha, W.,
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| 63. | <u>Investigation of Structural, Morphological and Luminescent Features of Eu³⁺ Activated Molybdate Based Phosphor for w-LED Applications</u> | Sharma, P.,
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| 64. | <u>IoT-driven augmented reality and virtual reality systems in neurological sciences</u> | Sahu, M.,
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| 65. | <u>Localization of beam generated whistler wave and turbulence generation in reconnection region of magnetopause</u> | Jyoti.,
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67.	<u>Microplastics influence the functional responses of a tropical estuarine calanoid Pseudodiaptomus annandalei (Open Access)</u>	Sharma, J., Rai, M., Guino-o, R.S.	1. Frontiers in Ecology and Evolution, 12, art. no. 1277332.
68.	<u>MRN-LOD: Multi-exposure Refinement Network for Low-light Object Detection</u>	Singh, K., Parihar, A.S.	Journal of Visual Communication and Image Representation, 99, art. no. 104079.
69.	<u>Multi-level trust-based secure and optimal IoT-WSN routing for environmental monitoring applications</u>	Sharma, V., Beniwal, R., Kumar, V.	Journal of Supercomputing.
70.	<u>Negative Stances Detection from Multilingual Data Streams in Low-Resource Languages on Social Media Using BERT and CNN-Based Transfer Learning Model (Open Access)</u>	Kumar, S.	ACM Transactions on Asian and Low-Resource Language Information Processing, 23(1), art. no. 9.



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| 73. | <u>Numerical study of submerged hydraulic jumps over triangular macroroughnesses (Open Access)</u> | Jayant, H.K.,
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| 74. | <u>Oppositely-Doped Core-Shell Junctionless Nanowire FET: Design and Investigation</u> | Bharti, Mittal, P. | ECS Journal of Solid State Science and Technology, 13(1), art. no. 013004. |
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| 77. | <u>Performance Assessment and Working Fluid Selection of the Novel Combined Helium Brayton Cycle and Organic Rankine Cycle Based on Solar Power Tower for Sustainable Generation</u> | Khan, Y., Apparao, D., Gawande, S., (...), Bisht, Y.S., Singh, P. | Iranian Journal of Science and Technology - Transactions of Mechanical Engineering |
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| 78. | <u>Performance of an Intelligent Reflecting Mirror Aided Uplink Lightwave Communication System</u> | Kumar, V., Kumar, R., Prakriya, S. | IEEE Wireless Communications Letters. |
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| 79. | <u>PID and ANFIS based control of active suspension system of quarter car model (Open Access)</u> | Kharola, A., Dobriyal, R., Rahul, Pokhriyal, V. | AIP Conference Proceedings, 2978(1), art. no. 050001. |
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| 80. | <u>Plasmonic switches based on VO₂ as the phase change material</u> | Dalal, K., Sharma, Y. | Nanotechnology, 35(14), art. no. 142001. |



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| 82. | <u>Progress, achievements, and challenges in multimodal sentiment analysis using deep learning: A survey</u> | Pandey, A.,
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| 83. | <u>Rainfall threshold for prediction of landslides around national highway 5, Himachal Pradesh, India</u>
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| 88. | <u>Simulation and Optimization of Biohydrogen Production from Biomass Feed via Anaerobic Digestion</u> | Budhraj, N.,
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| 89. | <u>SPTDMD-WST: Arrhythmia classification from spatiotemporal modes of dynamic mode decomposition using wavelet scattering transform</u> | Singhal, S.,
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