



EOP-2025: Conference Schedule
Instruments Research & Development Establishment, Dehradun, India
Hotel Hyatt Centric, Rajpur Road, Dehradun

Time	Day Wise Schedule
Day 1: Tuesday, 18th November 2025	
08:00-09:15	Registration at Hotel Hyatt Centric
09:15-11:00	Conference Inauguration Venue: Central Hall, Hotel Hyatt Centric
11:00-11:30	Inauguration of Exhibition followed by High Tea
Session-I (11:30 – 13:15) Session Chairs: Prof S Prabhu, Prof. Prashanth C. Upadhy	
11:30-12:15	Plenary –1 Prof Derek Abbott, University of Adelaide, Australia “Terahertz sensing”
12:15-12:45	Invited –1 Prof. K. S. Narayan, JNCASR, India “Smart Single Pixels using Solution Processed Semiconductors with Multifunctional Attributes”
12:45: 13:15	Invited –2 Prof. A. Ramakrishna, Geetam School of Science, Vishakhapatnam Title to be given
13:15-14:15	Lunch
Session-II (14:15 – 16:00) Session Chairs: Prof. K. S. Narayan, Prof. A. Ramakrishna	
14:15-15:00	Plenary – 2 Dr. J. Nayak, CHES Hyderabad “Engineering Challenges and Solutions for Ground-Based High-Energy Laser Systems inSpace Operations”
15:00-15:30	Invited – 3 Prof. Balaji Srinivasan, IIT Madras “Towards 100 kW and Beyond Through Dual Stage Hybrid Coherent Beam Combining”
15:30: 16:00	Invited - 4 Prof. Vipul Rastogi, IIT Roorkee “Mode Division Multiplexing for Futuristic Optical Communication Networks”
16:00-16:15	Tea



Session-III (16:15 – 17:30)	
Session Chairs: Prof. Balaji Srinivasan, Prof. Vipul Rastogi	
16:15-17:00	Plenary – 3 Prof. Achanta Venugopal, CSIR-NPL and TIFR Mumbai “Nanophotonics for metrology”
17:00-17:30	Invited - 5 Dr Sudhir Kumar Mishra, DRDO Chair, Former CEO BRAHMOS “From Concept to Combat: The Development of the BrahMos System”
17:30-19:00	Poster Session (PP-0001 to PP- 0100)
19:30 onwards	Conference Dinner



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Time	Day Wise Schedule
Day 2: Wednesday, 19th November 2025	
Session-IV (09:00 – 11:15) Session Chairs: Prof M Krishnamurthy, Prof. Gufran Khan	
09:00-09:45	Plenary – 4 Prof. Gautam Chattopadhyay, JPL, CalTech, USA “MHz to THz Technologies (MTT) and Our Place in the Universe”
09:45-10:15	Invited – 6 Prof. Prashanth C. Upadhyay, IISc Bangalore “Precision Quantum Sensors for Space”
10:15-10:45	Invited –7 Dr. C. S Thakur, IISc Bangalore “Neuromorphic Vision: Seeing Change, Not Frames”
10:45-11:15	Invited-8 Shai Fishbein, SCD Israel “SCD Products Roadmap”
11:15-11:30	Tea
Session-V (11:30 – 13:15) Session Chairs: Prof. Gautam Chattopadhyay, Prof Praveen Chandra Pandey	
11:30-12:15	Plenary – 5 Prof M Krishnamurthy, TIFR Hyderabad “Compact laser plasma source for high energy electrons, x-rays and protons”
12:15-12:45	Invited –9 Prof. Kedar Khare, IIT Delhi “Learning phase diversity for simplifying computational imaging”
12:45-13:15	Invited –10 Prof. Gufran S Khan, IIT Delhi “Nanostructured Hybrid Optics: Design, fabrication, and metrology”
13:15-14:15	Lunch
Session-VI (14:15 – 16:15) Session Chairs: Prof. Kodo Kawase, Prof. Millie Pant	
14:15-15:00	Plenary – 6 Prof. Hartmut G Roskos, Goethe University of Frankfurt, Germany Title to be given



15:00-15:45	Plenary – 7 Prof. Emma MacPherson, University of Warwick, UK “In vivo THz imaging: developing the Picobot”
15:45-16:15	Invited –11 Tuvy Markovich, SCD Israel “Drones and Counter-Drone Technologies: Challenges & Emerging Solutions in the Field of IR sensors”
16:15 – 16:30	Tea
Session-VII (16:30 – 17:45) Session Chairs: Prof Derek Abbott, Prof. Kedar Khare	
16:30-17:15	Plenary–8 Prof. Kodo Kawase, University of Nagoya, Japan “Real-time terahertz spectroscopy using multi-wavelength is-TPG”
17:15-17:45	Invited – 12 Dr. Niraj Kumar, CSIR-CEERI, Pilani “Research on High-Power and Compact Sub-THz Source”
17:45-19:15	Poster Session (PP-0101 to PP- 0196)
19:30 onwards	Dinner



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Time	Day Wise Schedule
Day 3: Thursday, 20th November 2025	
Session-VIII (09:00 – 11:15) Session Chairs: Prof. Rajesh Nair, Prof. C. S Thakur	
09:00-09:45	Plenary – 9 Prof Masahiko Tani, University of Fukui, Japan “Non-Ellipsometric Heterodyne Electro-Optic Sampling of Terahertz Waves”
09:45-10:15	Invited – 13 Prof. Brejesh Lal, IIT Delhi Topic to be given
10:15-10:45	Invited – 14 Prof Naveen Nishchal, IIT Patna “Complex Filter Synthesis for Optical Correlator for Advanced Applications”
10:45-11:15	Invited – 15 Prof. Rakesh Kumar Singh, IIT BHU “Looking through randomness by a single-pixel camera”
11:15-11:30	Tea
Session-IX (11:30 – 13:30) Session Chairs: Prof. Brejesh Lal, Prof. Naveen Nishchal	
11:30-12:00	Invited – 16 Prof. Rajesh V Nair, IIT Ropar “Cavity-mediated coherent emission from NV centers in nanodiamonds”
12:00-12:30	Invited – 17 Prof. Millie Pant, IIT Roorkee Topic to be given
12:30-13:00	Invited – 18 Prof Praveen Chandra Pandey, IIT BHU “Color Tunability and Optical Thermometry of Er 3+ co-doped SrMoO 4 : Dy 3+phosphor”
13:00-13:30	Invited – 19 Talk from IOL Dehradun
13:30-14:30	Lunch
14:45 – 15:45	Valedictory Function
15:45 onwards	Tea and Dispersal



POSTER PRESENTATION

Day 1: Tuesday 18th November 2025 (17:15 to 19:00 Hrs)

S. No.	Paper Id	Paper Title	Authors
1.	PP-0001	Accurate Height-of-Burst Estimation Using GoPro Hero 12 Pro: A Hybrid Approach Combining Camera Calibration and Real-Time Pixel Analysis	Anchal Yadav, C.P Singh and BB Padhy
2.	PP-0002	Distance Estimation through Deep Learning Using Feed Forward Neural Network	Anchal Yadav, C.P Singh and BB Padhy
3.	PP-0003	Optical Design of Trans-Receiver Optics of Handheld LIBS	Rashmi Negi and Ranabir Mandal
4.	PP-0005	Opto-mechanical Design of Cassegrain Assembly for Multiband Imaging through Aberration-Optimized Mirror Interfaces	Arvind Kumar, A.K. Sharma and Kanchan Chandra
5.	PP-0006	RSA cryptography in Underwater Optical Wireless Communication	Dhanush Devappa B C and Appala Venkata Ramana Murthy
6.	PP-0007	Channel characteristics of an Underwater Optical Wireless Communication Link	Shashank Shekhar, Dhanush Devappa B C and Appala Venkata Ramana Murthy
7.	PP-0008	Single-pixel to image through dynamic scatterer	Sarita, Tanushree Karmakar, Satish and Rakesh Kumar Singh
8.	PP-0009	Development of High-Transmittance Beam Splitters using RF Sputtering for Laser Spectroscopy Experiment	Durgeshwari Rathore, Shuvendu Jena and Dinesh V Udupa
9.	PP-0010	Compact LWIR Objective Design Using Chalcogenide Glass and Binary-2 Diffractive Surfaces for Military and UAV Applications	Chandan Kumar and Abhishek Singh
10.	PP-0012	Growth of In-doped HgCdTe Epilayers by Vertical Dipping Liquid Phase Epitaxial technique	Chanchal, Varun Sharma, Jayant Ojha, Umesh Sah and O. P. Thakur
11.	PP-0013	3D scene modelling for Infrared signature from real objects for Mid-wave infrared sensors	Om Prakash Naraniya, Anurag Srivastav, Kanchan Chandra and Harjot Singh
12.	PP-0015	Efficacy Estimation of Signature Reduction Measures for Ground Assets	Amit Bhati, Rahul Srivastava and VS Choudhary
13.	PP-0016	Physics-Guided Fresnel Neural Network for Multi-Depth Holographic Reconstruction	Arya Jayan, Austlin B S and Anith Nelleri
14.	PP-0017	Non-Line-of-Sight Computational Phase Retrieval of Moving Hidden Objects in Scattering Media Using Speckle Correlography	Malavika D S and Anith Nelleri
15.	PP-0018	Interactions of distinct modulated Cos Gaussian beams in photorefractive crystals having both linear and quadratic electro-optic effect	Gaurang Potdar and Aavishkar Katti
16.	PP-0019	A Novel Imaging Based Method for Evaluation of	Md. Maqsood Alam, Prem Kumar Sahani, Tanmoy Mahanty and Himangsu Sekhar Panda
17.	PP-0020	In-Orbit Simulation of CCD Imaging Devices using EOIR	Prasad Rathod and Suman Agrawal



18.	PP-0022	Simulation Driven Design of Space Optics for RSO Detection	Suman Agrawal and Prasad Rathod
19.	PP-0023	On-chip Heater Tuning Based High-Q Microring Resonator Measurement and Frequency Combs	Manoranjan Minz, Jyoti Prasad Nath, Chethus Suresh, Jayesh Wadekar, Ravi Mehta and Biman Chattopadhyay
20.	PP-0024	Aircraft Classification with Adaptive Embeddings and Similarity Based Inference	Ajay Kumar, Ajitabh Tiwari, Anurag K Singh, SM Jain and Manoj Kumar
21.	PP-0025	Comparative Analysis of Infrared Video Super Resolution Using Interpolation Methods	Jijin K V, Prasant Kumar Dash, Ajith Kumar Sahoo, Upendra Kumar Sahoo and Saswat Suvam Kumar
22.	PP-0026	Design and Characterization of a Photonic Integrated Delay Line Interferometer	Jyoti Prasad Nath, Manoranjan Minz, Chethus Suresh, Jayesh Wadekar, Ravi Mehta and Biman Chattopadhyay
23.	PP-0027	Combat aircraft trajectory modeling across diverse operational scenarios	Rekha kandpal, Nikhil Kumar, Ajay Kumar and Paras
24.	PP-0028	Generation of h-shaped pulses from ASA modelocked All-PM fiber laser in normal dispersion regime	Shyamal Mondal, Akshay Raj R, Munukutla Sri Sai Satish and Masood Kadiri
25.	PP-0029	Characterization of density dependent V ₂ O ₅ pellets using THz Time Domain Spectroscopy	Shyamal Mondal, RNV Krishna, Shivani VT, Abhijit S and Tejashree Bhawe
26.	PP-0030	Single-shot vortex beam detection via in-line single-pixel interferometry	Neha Choudhary, Amit Yadav and Rakesh K singh
27.	PP-0031	A Single Photonic-based Hardware Solution for LiDAR and Multiband QPSK based High Speed Communication System	Meena D, Sarath K T, Vidyamol S and Preenu Acha Prasad
28.	PP-0032	Degenerate Four-Wave Mixing at Pump Powers up to 4 W in a Silicon Nitride Waveguide	Chethus Suresh, Jyoti Prasad Nath, Manoranjan Minz, Jayesh Wadekar, Ravi Mehta, Biman Chattopadhyay and Sudharsanan Srinivan
29.	PP-0033	Numerical Investigation of Effect of Confocal Gaussian Beam Waist in the Presence of One Dimension Diffraction Effect in Second Harmonic Generation	Prashant Povel Dwivedi, Ajay Mishra and Nimish Dixit
30.	PP-0034	Design and Development of Laser Writing System for Three Segmented Quasi-Phase Matching Devices	Prashant Povel Dwivedi, Ajay Mishra and Nimish Dixit
31.	PP-0035	Real-Time Planar Global Optical Flow for Embedded Microcontrollers with Limited Processing Power	Nilesh Patil
32.	PP-0036	Adaptive Structuring Element Driven Morphology for Infrared Small Target Detection	Shubham Khanduri, Nikhil Kumar and Vimlesh Singh
33.	PP-0037	Design and Development of Night Vision Aviation Goggles for Light utility Helicopters	Varun Kumar Singh, Mohd Naved and Niraj Bhargva
34.	PP-0040	Enabling Technologies for Quantum Image Processing: A Brief Review	Wareendra Nath, D.K. Upadhyay and Unnikrishnan G.
35.	PP-0041	Robust High-Q Perfect Absorption in Monolayer 2D Materials using 1D Topological Photonic Crystals	Shuvendu Jena, Durgeshwari Rathore and Dinesh V Udupa



36.	PP-0042	Edge AI in Military Platforms– The Game Changer	Niraj Bhargava, Benjamoin Lionel and Rahul Singh
37.	PP-0043	Design of Fibre-Optic Mandrel Accelerometer	Praveena P. V., C. V. Sreehari, Khansa C. A, R. Rajesh and T. Santhanakrishnan
38.	PP-0044	Subwavelength Terahertz Imaging Using an Easy Waveguide-based Acquisition Setup	Uzair Aalam, Aparajita Bandyopadhyay and Amartya Sengupta
39.	PP-0046	Perception-Driven Thermal-Visible Fusion with Gradient-Aware Sharpening for Edge Fidelity	Manish Pratap Singh, A K Singh and D. Chaudhuri
40.	PP-0047	Enhancing Target DRI: Augmenting Johnson's Criteria with Modern Sensor Fusion and ML Techniques.	Abhilasha Chauhan and Nitesh Goel
41.	PP-0048	Molecular Behaviour of Beryl at High Temperature: Insight from Terahertz and Infrared Spectroscopy	Naini Bajaj, Amartya Sengupta and Aprajita Bandyopadhyay
42.	PP-0049	Topological Hall effect in third-order nonlinear optical system	Arannya Ghosh, Soumik Nandi and Ritwick Das
43.	PP-0050	Single Target Tracking with Angle-Only Kalman Filter for InfraRed Search and Track Systems	Sandeep Kumar, Kaustubh Saurabh Singh, Anurag Srivastav, Anshul Saklani, Anurag Dhasmana, Unnikrishnan Gopinathan and Anand Kumar Gupta
44.	PP-0051	Panorama generation by real time video stitching in an LWIR multi-aperture imaging system	Arun Kumar and Unnikrishnan G.
45.	PP-0052	Multimode excitation of polarization entangled photon source	Sakthi Priya Amirtharaj, Sabahat Sakinah and Anil Prabhakar
46.	PP-0053	A Turn-On Transient Fluctuation-Based Approach to Quantum Random Number Generation Using Diode Lasers	Devnath Dhirhe, Utkarsh Kumar Singh, Sahil Saini, Abhinav C, Sourabh Singh and Pankaj Bhujbal
47.	PP-0054	Comparative Intra-cavity Frequency Doubling in MgO:PPLN based Optical Parametric Oscillators	Mukesh Kumar Shukla and Ritwick Das
48.	PP-0055	Quantum Image Representation- Theory and Implementation	Uddipta Mukherjee, D. K. Upadhyay and Unnikrishnan G.
49.	PP-0056	Simulation of Optical Frequency Comb characteristics having FSR 40 GHz using cascaded Electro-Optic modulators for Electronic Warfare applications	Abhishek Kumar Jha and UVV Krishnaveni
50.	PP-0057	Analysis of tin film for structural, morphological and adhesion properties on silicon substrate for optoelectronic devices	Shailendra Kumar Gaur, Ajay Kumar Saini and Vanya Srivastav
51.	PP-0058	A Unique Flip Chip Bonding Recipe for Fine-Pitch MWIR HgCdTe Focal Plane Arrays	Vanya Srivastav, Meenakshi Asthania, Ajay Kumar Saini, Raghvendra H M, Kumar Kudlappa, Alka Rani, Ranveer Singh and Ravinder Pal
52.	PP-0059	RGB Compatible Broadband Metalens	Diksha Das and Shanti Bhattacharya
53.	PP-0060	Indium Bump Process Technology for 15 μ m Pitch IRFPAs	Meenakshi Asthania, Vanya Srivastav, Ajay Kumar Saini, Alka Rani and Ranveer Singh



54.	PP-0062	Automated Reticle Shift Algorithms for Electro-Optical Sight in Multi-Range Artillery Boresighting	Ajay Singh and Kamlesh Verma
55.	PP-0063	Sheet electron beam source for high-power THz BWO	Purna Unadkat, Sahil Jain and Niraj Kumar
56.	PP-0064	Direct measurements of CW and Pulsed Terahertz using ultrafast SBD detector	Madhuri Aggarwal, B. Karmakar, Uzair Aalam, Mayuri Kashyap, J. Karmakar, P. Patra, Aparajita Bandyopadhyay, Amartya Sengupta, and B.K. Sahu
57.	PP-0065	Design and Radiometric Performance Analysis of a Compact Spaceborne Optical Imaging Telescope	Bharat Ram Meena, Saralesh Yadav and Manvendra Singh
58.	PP-0066	Micro-fabrication methods for THz vacuum micro-electronics circuits	Sahil Jain, Purna Unadkat and Niraj Kumar
59.	PP-0067	Performance Optimization of 2-Axis Gimbal Design Parameters using AI/ML Framework	Nischay Paliwal and Nitesh Goel
60.	PP-0068	Integrated Video Analytics based Surveillance System	Pradeep Kumar, Vipul Kumar Bharti, Manoj Purohit, Priti Pal and Manvendra Singh
61.	PP-0069	Analysis of video processing techniques for Electro-Optical surveillance system	Adersh Kumar Singh and Manvendra Singh
62.	PP-0070	Experimental Demonstration of Clock Synchronization for Fiber Optic BB84 Quantum Key Distribution	Saravana Vilashini M and Anil Prabhakar
63.	PP-0071	Simulation of Optical Frequency Comb Characteristics Having FSR 40 GHz Using Cascaded Electro-Optic Modulators for Electronic Warfare Applications	Abhishek Kumar Jha and UVV Krishnaveni
64.	PP-0073	Stabilization Accuracy Measurement Technique to Achieve Line of sight Stabilization	Ravindra Gaur, Kamlesh Verma and Seema Sharma
65.	PP-0075	Flexible polymeric substrates for stealth applications in long-wave infrared range	Garima Joshi, Sumedha and R. Vijaya
66.	PP-0076	Detection of Moving Objects in Infrared and Thermal Videos for Surveillance Purposes.	Puvvula Nikhileswari, Sibani Panigrahi, Debi Prosad Dogra, Jai Prakash Singh and Dinesh Kutiyal
67.	PP-0077	Tuning Optoelectronic Properties in the Terahertz Region via B-Site (Nb/Ta) Doping in Li-Modified Pb-Free Perovskites	Kartikey Chaturvedi, Narendra Kumar Pandey, Anuvrat Tripathi, Sudeep Tiwari, Snehal Haldankar, Anol Mondal, Ajay Mishra, Nimish Dixit, Shriganesh Prabhu and Saurabh Tripathi
68.	PP-0078	Structure-properties correlations in A-site modified alkali niobate-based lead-free smart material	Sanjeev Kumar, Auvrat Tripathi, Sudeep Tiwari, Anol Mondal, Snehal Haldankar, Ajay Mishra, Nimish Dixit, Shriganesh Prabhu and Saurabh Tripathi
69.	PP-0079	Reliability Analysis of Gimbals Electronics of an Electro-Optical System.	Akash Singh, Sunil Kumar , A.S. Rana and Sudhir Khare
70.	PP-0081	Implementation of Image Enhancement using FPGA by Histogram Equalization technique	Deepika Porwal, Abhishek Parmar and Sumit Goswami



71.	PP-0083	Improved Object Detection in Challenging Environment: Applications in Defense	Sibani Panigrahi, Nikhileswari Puvvala, Debi Prosad Dogra, Jai Prakash Singh and Dinesh Kutiyal
72.	PP-0084	Look Once, Look Closer: Augmenting YOLOv12 with a High-Resolution Detection Head	Hrishikesh Singh, Aarti Sharma and Millie Pant
73.	PP-0085	Studies on Long Range Optical Sensor Disruption Using Infrared CW laser	Kethiri Narsimha Reddy, Sourav Paul, S. Veerabuthiran, S.N. Datta, Jagannath Nayak, Ajay Sharma and Rahul Kumar
74.	PP-0086	Tweaking Geometrical Profile of Tapered Optical Fibers for Sensing	Shyamal Mondal, Munukutla Sri Sai Satish, Akshay Raj R and Masood Kadiri
75.	PP-0087	Experimental Test Set-up for Study of Reticle in Simulated MANPAD Seeker	Vinita Sirala, Swati Verma, Harshpreet Singh Bhatia, Arpan Maji and Nitin Aggarwal
76.	PP-0088	Amateur Frequencies: Applications and Use Case for Drone Communications	Anupam Sharma, Millie Pant and Kusum Deep
77.	PP-0089	Comparative Study of ZnS, SiO _x , and SiN _x for Passivation of IR Photodetectors via Capacitance–Voltage Profiling	Shring Jaiswal, Vanya Srivastav and Gyanendra Sheoran
78.	PP-0090	Multispectral Anti-reflection Coating on ZnS for Integrated Electro-optic Systems	Anil Kumar, A S Upadhyay, Suman Awasthi, GK Gaurav and LM Pant
79.	PP-0091	Simulation Study of Laser Back Scattering From Rain and Cloud	Priyabrata Das and Girish Semwal
80.	PP-0092	Investigation of nonlinear optical response in cobalt ferrite-gold magnetoplasmonic system based on spatial self-phase modulation	Dency John and Pramod Gopinath
81.	PP-0094	Propagation analysis of the Bessel Gaussian vortex beam in vertical underwater turbulence	Athira T Das, R Rajesh and Pramod Gopinath
82.	PP-0095	An Integrated Edge AI System for a 17-DOF Humanoid Robot for Surveillance and Situational Awareness	Ravi Kumar R, Satyabodh Raichur, Ajai Kumar Sahani, D K Misra, Sinchan K N and Charan B Shetty
83.	PP-0096	Navigation and Mapping of a 17-DOF Bipedal Robot Using ROS 2 with LiDAR-Based SLAM	Ravi Kumar R, Satyabodh Raichur, Ajai Sahani, D K Misra, Sinchan K N and Charan B Shetty
84.	PP-0097	Passive Fourier Transform Infrared Spectroscopy for Standoff Detection of Chemical Clouds	Anjesh Kumar, Deepak Kumar, Het Ram Swami, Prakash Singh, Chitra and Punit Vashisth
85.	PP-0098	Effect of the base fluid in the thermal transport behavior of TiN nanofluids	Shanto T A and A Mujeeb
86.	PP-0099	Standoff detection of surface adsorbed molecules by semi-active FTIR spectroscopy	Deepak Kumar, Anjesh Kumar, Het Ram Swami, Ajeet Kumar, Pradeep Kumar Sharma, Chitra and Punit Vashisth
87.	PP-0100	Development of Capacitor Charging Power Supply to drive Laser Diode Array	Sunil Kumar, Akash Singh and A.S. Rana



POSTER PRESENTATION

Day 2: Wednesday 19th November 2025 (17:45 to 19:30 Hrs)

S. No.	Paper Id	Paper Title	Authors
1.	PP-0101	Durable high efficiency dielectric mirror for 1064nm laser wavelength	Suman Awasthi, Anil Kumar, A S Upadhyay and L M Pant
2.	PP-0102	AI-Based Fog Vision System	Vineet Kumar and Millie Pant
3.	PP-0103	Concept Consideration for driving Multi-Laser Diode Module (MLDM)	Krishna Murari, RKS Rawat, Punit Vashisth and Kamal Kumar Handa
4.	PP-0104	Extended Area IR Target for Calibration of Passive FTIR Sensor	Pankaj Agarwal, Ravindra Singh, Sanjay Kumar sharma, Amit Sharma and Deepak Kumar
5.	PP-0105	Effect of the base fluid in the thermal transport behaviour of TiN nanofluids	Shanto T A and A Mujeeb
6.	PP-0106	Insights Into The Role of Taper Ratio On Modal and Propagation Properties of Tapered Single-Mode Fibers	Rasmirekha Khatua and Suchita
7.	PP-0107	High Energy Diode Pumped Temperature Insensitive Nd:YAG Laser Transmitter	Yogesh Kumar Saxena, Chitra and A. K. Shrivastava
8.	PP-0108	Miniaturized Passive Q-switched Diode Pumped Er:glass Laser Transmitter	Yogesh Kumar Saxena, Prabhat Sharma, Arpan Maji and A K Shrivastava
9.	PP-0109	Performance Validation of the Laser Transmitter for Beam Rider Guidance.	Vinod Kumar, Chitra, Shailendra Singh Yadav, Sushil Kumar, Atul Kumar Tomar and Ajay Kumar Shrivastava
10.	PP-0110	Development of an Interactive IP-Based Video Communication System Using Socket Programming	Kamlesh Verma, Himanshu Singh, Munish Kumar, Sandeep Bisht, Deepak Yadav, Vikrant Kumar Singh, Anitha Kumari Sivathanu, Senthilnathan Ranganathan, Ranjith Pillai, Madhumitha Gnanasankaran, Nandhini Murugan and Vignesh Srikumar Mekala
11.	PP-0111	Design and Evaluation of a Gaussian Blur combined Video Stabilization Algorithm for Digital Video Stabilization	Kamlesh Verma, Himanshu Singh, Munish Kumar, Deepak Yadav, Ranjith Pillai, Senthilnathan Ranganathan, Anitha Kumari Sivathanu, Madhumitha Gnanasankaran, Nandhini Murugan and Vignesh Srikumar Mekala
12.	PP-0112	Quantative Evaluation of Image Compression Using Hopfield Neural Network	Sunita



13.	PP-0113	On the Performance Analysis of Traditional and Deep Learning-Based Image Super-Resolution Techniques for Thermal Images	Kamlesh Verma, Himanshu Singh, Sandeep Bisht, Purnima Garg, Deepak Yadav, Madhumitha Gnanasankaran, Senthilnathan Ranganathan, Nandhini Murugan, Anitha Kumari Sivathanu, Vignesh Srikumar Mekala and Ranjith Pillai
14.	PP-0114	Methodology and Data Acquisition for Airborne Evaluation of the Hyperspectral Imager	Saralesh Yadav, Anuj Kumar Ruhela, Bharat Ram Meena and Manvendra Singh
15.	PP-0115	A Real-Time GUI-Based Image Processing Framework for Video Enhancement	Kamlesh Verma, Ravi Bhalla, G. K. Sah, Pravesh Kumar, Amit Sharma, Ranjith Pillai, Senthilnathan Ranganathan, Anitha Kumari Sivathanu, Madhumitha Gnanasankaran, Nandhini Murugan and Vignesh Srikumar Mekala
16.	PP-0116	Data Products and Validation of the Hyperspectral Payload	Anuj Kumar Ruhela, Saralesh Yadav, Manvendra Singh and Kishan S. Rawat
17.	PP-0117	Development of Embedded Vision Controller with GPU-Capability and Multi-Camera Interface for Multi-modal Computer Vision Tasks	Kamlesh Verma, Lalit Kumar, Nitin Sharma, Pranali S. Gundewar, Senthilnathan Ranganathan, Ranjith Pillai, Madhumitha Gnanasankaran, Nandhini Murugan, Anitha Kumari Sivathanu and Vignesh Srikumar Mekala
18.	PP-0119	Segmented Optical Window: Precision Fabrication and Optical Characterization	Harsh Pratap Singh, Bikram Poddar, MP Singh, KK Gulati, Neeraj Pandey and LM Pant
19.	PP-0120	Comparative analysis of Panoramic View Generation approaches through Real-Time Video Stitching for Surveillance Applications	Vaibhav Gupta, Akshit Kumar and Parampreet Singh
20.	PP-0121	Multiparameter Optimization of TOPAS based Hollow-Core Fiber for Low Loss Terahertz Communication	Subodh Dewangan and Suchita
21.	PP-0122	Enhancing Mode Confinement in Symmetric Tubes Hollow-Core Anti-Resonant Fiber For THz Guidance	Nikhil Pradhan and Suchita
22.	PP-0123	Higher Order Mode Suppression for Single-Mode THz Transmission in Anti-Resonant Hollow Core Fiber	Mamta and Suchita
23.	PP-0124	Stabilization Accuracy Measurement Technique to Achieve Line of sight Stabilization	Ravindra Gaur, Kamlesh Verma and Seema Sharma
24.	PP-0125	Enabling Reliable Optronic Operations in Extreme Stratospheric Conditions	Rishi Raj, Abhinav Rajan, Amit Kumar Sharma, Mukesh Prakash Mishra and Ashwani Assam



25.	PP-0126	Hexagonal Microlens Array for Optical Convolution in Photonic Deep Neural Network	Ananya Susan Cherian, Anil Prabhakar, Manoj Nambiar, Rekha Singhal and Abhishek Chavle
26.	PP-0127	Effect of coupling gap on cross-coupling coefficient in a Microring Resonator	Sumedha Prabha, Ananya Susan Cherian and Anil Prabhakar
27.	PP-0128	Turbulence-Mitigation for long-range imaging via a Multi-Scale, Turbulence-Aware Fusion Framework	Jumi Hazarika Kakoty, Avishek Kumar, Sudhir Khare and Satish Kumar Dubey
28.	PP-0129	Spatial Photonic Ising Machine using a Spatial Light Modulator	Harshavardhan Hajeri, Nipun Vinod P M, Guruprasad Patil, Sakthi Priya Amrithraj and Anil Prabhakar
29.	PP-0130	A Single Photonic-based Hardware Solution for LiDAR and Multiband High Speed Communication System with QPSK signals	MEENA D
30.	PP-0131	Estimation of Incident Radiative Flux on a Flat Circular Window of an EO Payload	Keshav Chauhan, Krishan Sharma and M P Mishra
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