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S. No.	Abstract Id	Abstract Title	Primary Author	Co-Author
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, Dr. BB Padhy
2	PP-0002	Distance Estimation through Deep Learning Using Feed Forward Neural Network	ANCHAL YADAV	C.P Singh, Dr. BB Padhy
3	PP-0003	Optical Design of Trans-Receiver Optics of Handheld LIBS	Rashmi Negi	Ranabir Mandal
4	PP-0005	Opto-mechanical Design of Cassegrain Assembly for Multiband Imaging through Aberration-Optimized Mirror Interfaces	Arvind Kumar	A.K. Sharma, Kanchan Chandra
5	PP-0006	RSA cryptography in Underwater Optical Wireless Communication	Dhanush Devappa B C	Appala Venkata Ramana Murthy

6	PP-0007	Channel characteristics of an Underwater Optical Wireless Communication Link	shashank shekhar	Dhanush Devappa B C, Appala Venkata Ramana Murthy
7	PP-0008	Single-pixel to image through dynamic scatterer	Sarita	Tanushree Karmakar, Satish, Rakesh Kumar Singh
8	PP-0009	Development of High-Transmittance Beam Splitters using RF Sputtering for Laser Spectroscopy	Durgeshwari Rathore, Durgeshwari Rathore	Shuvendu Jena, 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	Abhishek Singh
10	PP-0012	Growth of In-doped HgCdTe Epilayers by Vertical Dipping Liquid Phase Epitaxial technique	Chanchal	
11	PP-0013	3D scene modelling for Infrared signature from real objects for Mid-wave infrared sensors	Dr Om Prakash Naraniya	Anurag Srivastav, Kanchan Chandra, Harjot Singh
12	PP-0015	Efficacy Estimation of Signature Reduction Measures for Ground Assets	Amit Bhati	
13	PP-0016	Physics-Guided Fresnel Neural Network for Multi-Depth Holographic Reconstruction	ARYA JAYAN, AUSTLIN B S	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	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	Dr. Aavishkar Katti
16	PP-0019	A Novel Imaging Based Method for Evaluation of	Md. Maqsood Alam	Prem Kumar Sahani, Tanmoy Mahanty, Himangsu Sekhar Panda
17	PP-0020	In-Orbit Simulation of CCD Imaging Devices using	Prasad Rathod	Suman Agrawal
18	PP-0022	Simulation Driven Design of Space Optics for RSO Detection	Suman Agrawal	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, Biman Chattopadhyay
20	PP-0024	Aircraft Classification with Adaptive Embeddings and Similarity Based Inference	Ajay Kumar	Ajitabh Tiwari, Anurag K Singh, SM Jain, Dr 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, Saswat Suvam Kumar

22	PP-0026	Design and Characterization of a Photonic Integrated Delay Line Interferometer	jjyoti prasad nath	Manoranjan Minz, Chethus Suresh, Jayesh Wadekar, Ravi Mehta, Biman Chattopadhyay
23	PP-0027	Combat aircraft trajectory modeling across diverse operational scenarios	Rekha kandpal	Nikhil Kumar, Dr. Ajay Kumar, Dr. 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, 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, Tejashree Bhawe
26	PP-0030	Single-shot vortex beam detection via in-line single-pixel interferometry	Neha Choudhary	Amit yadav, 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, 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, Sudharsanan Srinivan
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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, Vimlesh Singh
33	PP-0037	Design and Development of Night Vision Aviation Goggles for Light utility Helicopters	Varun Kumar Singh	Mohd Naved, Niraj Bhargva
34	PP-0040	Enabling Technologies for Quantum Image Processing: A Brief Review	Wareendra Nath	D.K. Upadhyay, Unnikrishnan G.
35	PP-0041	Robust High-Q Perfect Absorption in Monolayer 2D Materials using 1D Topological Photonic Crystals	Shuvendu Jena	Durgeshwari Rathore, Dinesh V Udupa
36	PP-0042	Edge AI in Military Platforms– The Game Changer	NIRAJ BHARGAVA	Benjamoin Lionel, Rahul Singh
37	PP-0043	Design of Fibre-Optic Mandrel Accelerometer	PRAVEENA P V	Dr. T SANTHANAKRISHNAN, Dr. R Rajesh, Dr. C.V Sreehari
38	PP-0044	Subwavelength Terahertz Imaging Using an Easy Waveguide-based Acquisition Setup	Uzair Aalam	Aparajita Bandyopadhyay, Amartya Sengupta

39	PP-0046	Perception-Driven Thermal-Visible Fusion with Gradient-Aware Sharpening for Edge Fidelity	manish pratap singh	A K Singh, D. Chaudhuri
40	PP-0047	Enhancing Target DRI: Augmenting Johnson's Criteria with Modern Sensor Fusion and ML Techniques.	Abhilasha Chauhan	Nitesh Goel
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42	PP-0049	Topological Hall effect in third-order nonlinear optical system	Arannya Ghosh	Soumik Nandi, 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, Anand Kumar Gupta
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45	PP-0052	Multimode excitation of polarization entangled photon source	Sakthi Priya Amirtharaj	Sabahat Sakinah, 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, Pankaj Bhujbal
47	PP-0054	Comparative Intra-cavity Frequency Doubling in MgO:PPLN based Optical Parametric Oscillators	Mukesh Kumar Shukla	Ritwick Das
48	PP-0055	Quantum Image Representation- Theory and Implementation	Uddipta Mukherjee	D. K. Upadhyay, 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	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, 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, Dr. Ravinder Pal
52	PP-0059	RGB Compatible Broadband Metalens	Diksha Das	Shanti Bhattacharya
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54	PP-0062	Automated Reticle Shift Algorithms for Electro-Optical Sight in Multi-Range Artillery Boresighting	Ajay Singh	Dr. Kamlesh Verma

55	PP-0063	Sheet electron beam source for high-power THz BWO	PRERNA UNADKAT	, SAHIL JAIN, NIRAJ KUMAR
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57	PP-0065	Design and Radiometric Performance Analysis of a Compact Spaceborne Optical Imaging Telescope	Bharat Ram Meena	Saralesh Yadav & Dr. Manvendra Singh
58	PP-0066	Micro-fabrication methods for THz vacuum micro-electronics circuits	SAHIL JAIN	Prerna Unadkat, Niraj Kumar
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60	PP-0068	Integrated Video Analytics based Surveillance System	Pradeep Kumar	Vipul Kumar Bharti, Manoj Purohit, Priti Pal, Manvendra Singh
61	PP-0069	Analysis of video processing techniques for Electro-Optical surveillance system	Adersh Kumar Singh	Dr.Manvendra Singh
62	PP-0070	Experimental Demonstration of Clock Synchronization for Fiber Optic BB84 Quantum Key Distribution	SARAVANA VILASHINI M	Anil Prabhakar
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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, Saurabh Tripathi
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83	PP-0096	Navigation and Mapping of a 17-DOF Bipedal Robot Using ROS 2 with LiDAR-Based SLAM	ravi kumar r	satyabodh m raichur
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152	PP-0169	Mitigation of infrared imager blooming problem for antidrone warfare	Himanshu Singh	Sudhir Khare
153	PP-0170	Performance Analysis of Reconfigurable Intelligent Surfaces (RIS) assisted Covert Communication in Terahertz (THz) Band	Abhishek Srivastava	Dr. Sonika Singh, Dr. Saurabh Mishra, Dr. Gurjinder Singh
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156	PP-0174	Resource-Constrained FPGA Design for High-Efficiency Real-Time Video Contrast Enhancement	Chinmay khattar	Dr Neeraj Pandey
157	PP-0175	Two-Point Off-Center Feedback-Based Phase Control in Modular Tiled Array Coherent Beam Combination	Anirudh Bharadwaj, Sooraj MS, Satyajit Maji, Balaji Srinivasan	Sooraj M.S, Satyajit Maji, Balaji Srinivasan
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