

Patents

Publications

Book Chapters

Conference Papers

Lectures Delivered

Workshop/Symposium/Training Attended

Patents

Filed

1. Title : A Method for Automatic Volumetric Segmentation of Human Upper Respiratory Tract
Inventors : Bala Chakravarthy Neelapu, Harish Kumar Sardana, Om Prakash Kharbanda, Sardana Viren, Abhishek Gupta, Srikanth Vasamsetti
Filing Date : August 30, 2018
Application No. : 16/118088
Country : US
2. Title : Growth of Cuprous Oxide Nanowires With Top Layer of Noble Metal
Inventors : Vipin Chawla, Sunita Mishra, Arvind Kumar, Ramesh Chandra, Neha Sardana
Filing Date : August 31, 2018
Application No. : 201811032673
Country : IN
3. Title : A Device for Sensing the Pose and Motion of Human`s Arm Hand
Inventors : Sanjeev Soni, Sanjeev Verma, Dinesh Pankaj, Amod Kumar
Filing Date : September 18, 2018
Application No. : 1815200.9
Country : GB
4. Title : A Device for Sensing the Pose and Motion of Human`s Arm Hand
Inventors : Sanjeev Soni, Sanjeev Verma, Dinesh Pankaj, Amod Kumar
Filing Date : September 18, 2018
Application No. : 16/086160
Country : US
5. Title : Method for Full Field Measurement of Craze Density in Transparent Components
Inventors : Raj Kumar, Prabhat Kumar Baghel
Filing Date : November 22, 2018
Application No. : 201811043966
Country : IN
6. Title : Method and System for Activity Recording, Visualisation and Analysis for Identified Segments of Forest
Inventors : Ripul Ghosh, Akula Naga Vara Aparna, Sarkar Siddhartha, Vajpeyi Anirudh, Sardana Harish Kumar, Kumar Satish, Goap Amarendra
Filing Date : November 26, 2018
Application No. : PCT/IN2018/050786
Country : WO
7. Title : Toothed C-Spring Segments for Pre-Positionable Hand Prosthetics
Inventors : Sekar Anup Chander, Bhupinder Singh, Vhatkar Dattatraya Shivling, Dhanna Lal Meena
Filing Date : March 29, 2019
Application No. : 201911012436

Country : IN

8. Title : Method and System for Activity Recording, Visualisation and Analysis for Identified Segments of Forest
- Inventors : Ghosh Ripul, Akula Naga Vara Aparna, Sarkar Siddhartha, Vajpeyi Anirudh, Sardana Harish Kumar, Kumar Satish, Goap Amarendra
- Filing Date : November 27, 2018
- Application No. : 319/2018
- Country : BD

Publications

1. Ahmad, J., Akula, A., Mulaveesala, R. and Sardana, H. K. (2018). Barker-Coded Thermal Wave Imaging for Non-Destructive Testing and Evaluation of Steel Material. *IEEE Sensors Journal*, 19(2), 735-742.
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4. Azzouz, A., Goud, K. Y., Raza, N., Ballesteros, E., Lee, S. E., Hong, J., Deep, A. and Kim, K. H. (2018). Nanomaterial-based electrochemical sensors for the detection of neurochemicals in biological matrices. *TrAC Trends in Analytical Chemistry*, 110, 15-34.
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Book Chapters

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7. Mayank Garg, Satish Pandey, Vijay Kumar Meena, Amit L. Sharma and Suman Singh, "Applications of Molecularly imprinted polymers for genosensors", in *Biosensors: Materials and Applications, Materials Research Foundations*, Vol. 47, pp. 51-76, (2019).
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10. **Three Dimensional Cephalometry-Orthodontics: Diagnosis and management of malocclusion and Dento-facial Deformities" 3rd Edition edited by Dr. O.P Kharbanda. (incomplete information Chapter name and author information not available)**

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V1a

1. Vaishali Sharma, Surinder Singh Bhinder, SK Kansal and Pooja D., "Synthesis of Zn/Fe Metal Organic Frame Work for Selenium Removal from Water", 13th Chandigarh Science Congress (CHASCON-2019)", March 13-15, 2019, Panjab University, Chandigarh
2. Chetan Chaudhary, Preetismita Borah, Anupma Thakur, S.Kansal and Pooja D., Study of Selenium Pollution in the Punjab Region with Colorimetric and IC methods", 13th Chandigarh Science Congress (CHASCON-2019), March 13-15, 2019, Panjab University, Chandigarh
3. Shipra Singh, Preetismita Borah, Anupma Thakur, and Pooja D., "Low cost functional material for selenium detection in water", 13th Chandigarh Science Congress (CHASCON-2019), March 13-15, 2019, Panjab University, Chandigarh
4. Yogita, Manish Kumar, Ramandeep Kaur, Anupma Thakur and Pooja Devi, "Synthesis and Characterization of Carbon Quantum Dots from Cresol Red Dye", 2nd National Conference on Advances in Chemical and Environmental Engineering (ACEE'19), March 23-24, 2019, NIT, Jalandhar
5. Pooja Devi, Cody Schultz and Rebecca Y. Lai, "Design and Fabrication of Electrochemical Peptide-based Selenium Sensors", ACS Midwest Regional Meeting, October 21-23, 2018, Iowa State University, Ames, Iowa, USA.
6. Pooja D. and Praveen Kumar, "III-Nitrides Nanostructures for Next-Generation Energy Harvesting and Sensing Devices", Science and Research Opportunities in India (Sci-ROI), September 08-09, 2018, The University of Chicago, USA
7. Pooja D. and Praveen Kumar, "Carbon Quantum Dots for Water Pollutants Monitoring: Lab to Land", PITTCON-2018, February 25- March 01, Orlando, USA.
8. Pooja Devi, "Functional Carbonaceous Materials for Heavy Metals Quantification in Water", International Conference on Advanced Materials (ICAM-2019) organized by Centre for Nanoscience and Nanotechnology (CNN), March 06-07, 2019, Jamia Malia Islamia (A Central University), New Delhi (Poster Presentation)
9. Anupma Thakur, Pooja D., Praveen Kumar, Senthil Prasad and R.K. Sinha, "Bacteriorhodopsin/GaN Nanowall Network Hybrid as Bioengineered Artificial Light Harvesting Leaf for Hydrogen Production by Remarkable Solar-Water Splitting Performance", International Workshop on Energy, Power and Environment (IWEPE-2019), March 17-19, 2019, National Institute of Technology Kurukshetra (Best Poster Award)
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11. Rishabh Jain, Pahul, Neerja Mittal, Praveen Kumar, and Pooja D., "Imaging Assisted Quantitative Colorimetric and Adsorption based Detection of Heavy Metal Ions using Disposable Paper Sensor Strips in Water", International workshop on advanced materials (IWAM-2019), February 24-26, 2019, Dubai (Oral Presentation)
12. Anupma Thakur, Praveen Kumar, Rishabh Jain, R.K Sinha and Pooja Devi, "Organic waste as feedstock to sustainable hydrogen fuel: A Solar Driven Quantum Leaf", International workshop on advanced materials (IWAM-2019), February 24-26, 2019, Dubai (Poster Presentation)
13. Shefali Saini, Anupma Thakur and Pooja D., "Biomedical Applications of Green Synthesized Carbon Quantum Dots from Citrus limetta Organic Waste", International Society for Nanomedical Science Conference (ISNSCON 2019), January 07-10, 2019, New Delhi
14. Rishabh Jain, Pahul Jot, Praveen Kumar and Pooja D., "Disposable paper sensor strips for quantitative colorimetric detection of zinc ions in water", Young Scientist Colloquium 2018, Material Research Society of India, September 21, 2018, Kolkata (Best Poster Award)
15. Anupma Thakur, Pooja D., Sudeshna Bagchi, R.K. Sinha and Praveen Kumar, Plasmonic Nanostructures/Carbon Dots Decorated TiO₂ Nanofibers: A Solar Driven Leaf for Water Splitting, Young Scientist Colloquium 2018, Material Research Society of India, September 21, 2018, Kolkata (Poster Presentation)
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29. Akanksha Deep, Yogesh Kumar, "PoonamSyal and Sanjeev Kumar, Data Acquisition System for the Development of Non-Invasive Hemoglobin Measurement", 2018 International Conference on New Trends in Engineering & Technology (ICNTET), September 07-08, 2018, Tiruvallur, Chennai
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31. Soni S and Tyagi H., "Investigation of Nanoparticle Injection to a Tissue through Porous Media Theory", ICTEA 12th International Conference on Thermal Engineering: Theory and Applications, February 23-26, 2019, Pandit Deendayal Petroleum University Gandhinagar, Gujrat
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33. Monga D, Soni S, Tyagi H. "Role of optical coefficients and blood perfusion on thermal response during nanoparticle assisted hyperthermia". 7th International & 45th National Conference on Fluid Mechanics & Fluid Power (FMFP 2018) , December 10-12, 2018, IIT Bombay, Mumbai
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47. Shwinky Bhatia, Aditi Chopra, Girish C. Mohanta and Sudipta Sarkar Pal, "Development of Metal Organic Framework integrated Optical Fiber for Gas Sensing Application", XLII OSI-International Symposium on Optics (OSI-ISO 2018), September 19-22, 2018, IIT Kanpur, Kanpur
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53. Manish Kalra, Satish Kumar and Bhargab Das, "Target Detection Using Smooth Pseudo Wigner-Ville Distribution", IEEE Recent Advances in Intelligent Computational Systems (RAICS-2018), December 06-08, 2018, Thiruvananthapuram, Kerala

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54. Kim Jungrack, Lin Shih-Yuan, Singh Seema, Singh Tejpal, Tsai Ya-Lun, Gupta Sanjeev and Save Himanshu, " Surface Deformations by Ground Water Depletion over N.W. India: Local and Global Scale Observations using Insar and Space Geodesy and their Geological Implications", EGU General Assembly 2018, 08-13 April, 2018, Vienna, Austria
55. Gaurav Verma, Shashi Poddar, Vipin Kumar and Amitava Das, "Two View Triangulation: A Novel Approach using Sampson's Distance", Third International Conference on Computer Vision and Image Processing (CVIP 2018), September 29 - October 1, 2018, PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur
56. Harshit Rampal, Amitava Das, Shveta Mahajan, Satbir Singh, "Enhancement of Corn Image Quality using Very-Deep Super-Resolution (VDSR) Neural Network", 3rd International Conference on Inventive Computation Technologies (3rd ICICT 2018), November 15-16, 2018, Coimbatore, Tamilnadu

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57. Rajnish Kaur, Amit L. Sharma, Kyungmin Kim and Akash Deep, "A CdTe/Eu-MOF Photoanode or Application in Quantum Dot-Sensitized Solar Cell". Conference on Materials & Technologies for Energy Conversion and Storage (M-TECS 2018), September 26-29, 2018, DAE Convention Centre, Anushaktinagar, Mumbai
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60. Sundriyal, S., Goel, P., Shrivastav, V., Kaur, H., Mishra, S., & Deep A, "Manganese MOF as a Novel Electrode Material for High Performance Aqueous Supercapacitors", Conference on Materials & Technologies for Energy Conversion and Storage (M-TECS 2018), September 26-29, 2018, DAE Convention Centre, Anushaktinagar, Mumbai.

61. Sunita Mishra, "NIR Spectroscopy for Food Quality", International conference on Technological Innovations for Integration of Food and Health (TiiFH 2019): A focus on North-East India, February 14-16, 2019, Tezpur University, Assam
62. Paramita Guha, Virmita Malhotra and Sunita Mishra, "Control of storage parameters using wireless sensor networking to maintain the nutritional properties of stored wheat grain", International conference on Technological Innovations for Integration of Food and Health (TiiFH 2019): A focus on North-East India, February 14-16, 2019, Tezpur University, Assam
63. Sarita Devi, Ashok K Paul and Sachin Tyagi, "Nitrogen Doped Carbon Quantum Dots Mediated Fluorescence Enhancement of Metal Organic Framework", International Conference on Advanced Materials (ICAM-2019) organized by Centre for Nanoscience and Nanotechnology (CNN), March 06-07, 2019, Jamia Malia Islamia (A Central University), New Delhi (Poster Presentation)
64. Rajesh Kashyap, Dinesh kumar, Mukesh kumar, Sachin Tyagi, Synthesis and Characterization of Nickel Ferrite Based Film for VOC Sensing Applications, International Conference on Advanced Materials (ICAM-2019) organized by Centre for Nanoscience and Nanotechnology (CNN), March 06-07, 2019, Jamia Malia Islamia (A Central University), New Delhi (Poster Presentation)
65. Shivanshu Goel, Avesh Garg, Raju Kumar Gupta and Sachin Tyagi, "Microwave Absorbing Behaviour of Industrial Waste Fly Ash", National Conference on Materials & Nanotechnology: Ideas, Innovation & Initiatives (NCMN-2019), February 15-16, 2019, GLA University, Mathura
66. Avesh Garg, Neelam Kumari and Sachin Tyagi, "Synthesis and Characterization of SrFe₁₂O₁₉/Ti₃SiC₂ Composite for RADAR Absorption Application in X-Band", National Conference on Advanced Materials and Devices for Futuristic Applications (AMDFA-2018), May 19-20, 2018, Chandigarh University, Gharuan, Mohali, Punjab (1st Prize: Best Poster Presentation)
67. Sarita Devi, Ashok K Paul and Sachin Tyagi, "Interaction of Heavy Metal Based Luminescent Quantum Dots with Quencher Gold Nanoparticles", National Conference on Advanced Materials and Devices for Futuristic Applications (AMDFA-2018), May 19-20, 2018, Chandigarh University, Gharuan, Mohali, Punjab (2nd Prize: Best Poster Presentation)
68. Shivanshu Goel, Ashok K Paul and Sachin Tyagi, "Synthesis and Characterization of Carbon Quantum Dot Coated Barium Titanate Fibers", National Conference on Advanced Materials and Devices for Futuristic Applications (AMDFA-2018), May 19-20, 2018, Chandigarh University, Gharuan, Mohali, Punjab (Poster Presentation)
69. Vandana Gupta and Sachin Tyagi, "UiO-66 MOF Development for Anticancer Drug Delivery", National Conference on Advanced Materials and Devices for Futuristic Applications (AMDFA-2018), May 19-20, 2018, Chandigarh University, Gharuan, Mohali, Punjab (Poster Presentation)
70. Sachin Tyagi, "Metallic Nanoparticles in Conjugation with Fluorescent Nanoparticles for Nitroaromatic Explosive Sensing", International Symposium on Functional Materials (ISFM-2018): Energy and Biomedical Applications, jointly organized by IIT Kanpur, Panjab University and University of illinois, Chicago, USA, April 13-15, 2018, Hotel Shivalik View, Chandigarh

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1. Akash Kumar, Shivani Sharma, Kailash Chand and Paramita Guha, “Structural Analysis of PFCB W14 Material Using COMSOL Multiphysics, ”, 6th International Conference on Signal Processing and Integrated Networks (SPIN), March 07–08, 2019, Amity University, Noida, Delhi-NCR
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6. Chandan J. Singh, Shivani Sharma, Kailash Chand, P. Mukhija, Paramita Guha, K. Chathuranga, S. Lalitharathne, A. Kulasekera and R. Gopura, Detection of Forest Fires at early stages using Wireless Sensor Network and Graphical User Interfacing, 4th International Conference on Computers and Management (ICCM 2018), December 22-23, 2018, G B Pant Govt. Engineering College Okhla , New Delhi

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3. Siddhartha Sarkar , Bipin Kumar Singh , Nirupama Mandal and Shakti Sangram Behera, "A Fsr Based Data Acquisition System to Study the Interaction of Different Footwear with Different Foot-Regions", 2018 2nd International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech), May 04-05, 2018, Kolkata
4. Aparna Akula, Mohit Verma and Ripul Ghosh, "Transfer Learning Approach for Human Action Recognition in Infrared Images" , GTC 2019 (GPU Technology Conference), March 17, 2019, San Jose, California, United States of America (Poster Presentation)
5. Anurag Choudhary, SL Shimi and Aparna Akula, "Bearing Fault Diagnosis of Induction Motor Using Thermal Imaging." IEEE International Conference on Computing, Power and Communication Technologies (GUCON-2018). September 28-29, 2018, Greater Noida, UP
6. Aparna Akula, Ripul Ghosh, Neeraj Guleria, Satish Kumar and HK Sardana, "Towards An Optimal Bag-Of-Features Representation for Vehicle Type Classification in Thermal Infrared Imagery", SPIE Optical Engineering + Applications, September 07, 2018, San Diego, California, United States
7. Anuj K. Shah, Ripul Ghosh and Aparna Akula, "A spatio-temporal deep learning approach for human action recognition in infrared videos", SPIE Optical Engineering + Applications, September 07, 2018, San Diego, California, United States
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Hindi Papers

- 90^ण स्वर्णजीत सिंह, बन्दना खुल्लर, तेज पाल सिंह, अभितावा दास, 'भूकम्प एवं पूर्वानुमान में सी.एस.आई.ओ. का योगदान', राष्ट्रीय वैज्ञानिक एवमं तकनीकी संगोष्ठी, दिसम्बर 06-07 2018, सासे सेक्टर 37, चंडीगढ़ (पावरपवाइंट प्रेजेंटेशन)
- 91^ण बन्दना खुल्लर, 'उत्तरभारत: एक भूकम्पीय प्रवण पट्टिका', राष्ट्रीय वैज्ञानिक एवमं तकनीकी संगोष्ठी, दिसम्बर 06-07, 2018, सासे सेक्टर 37, चंडीगढ़ (पावरपवाइंट प्रेजेंटेशन)
- 92^ण विकाशचन्द्र 'फाइबर ब्रैग ग्रेटिंग (FBG) ध्वनिक संवेदक', राष्ट्रीय वैज्ञानिक एवमं तकनीकी संगोष्ठी, दिसम्बर 06-07, 2018, सासे सेक्टर 37, चंडीगढ़ (पावरपवाइंट प्रेजेंटेशन)
- 93^ण स्वर्णजीत सिंह, बन्दना खुल्लर, राजेन्द्र सिंह शौण्डा, तेजपाल सिंह, अभितावा दास 'सैन्य-सुरक्षा में सेल-फोन जैमर की चुनौतियाँ तथा निवारण', इंकम टैक्स डिपार्टमेंट, अगस्त 28, 2018, सेक्टर 17, चंडीगढ़
- 94^ण स्वर्णजीत सिंह, बन्दना खुल्लर, राजेन्द्र सिंह शौण्डा, तेजपाल सिंह, अभितावा दास, 'प्राकृतिक आपदाएँ-भूकम्प तथा भूकम्पीय मापन के उपकरणों में सी.एस.आई.ओ. का योगदान', अगस्त 13-14, 2018, राष्ट्रीय हिंदी तकनीकी संगोष्ठी, सी.एस.आई.आर. मद्रास कॉम्प्लेक्स, चेन्नाई
- 95^ण स्वर्णजीत सिंह, बन्दना खुल्लर, राजेन्द्र सिंह शौण्डा, तेजपाल सिंह, अभितावा दास, 'भूकम्प एवं पूर्वानुमान', **6th National conference**, मार्च 29, 2019, रवीन्द्र भारती विश्वविद्यालय, कोलकाता
- 96^ण बन्दना खुल्लर, 'डी.एस.ए. -बूद का सतह पर गिरना', राष्ट्रीय वैज्ञानिक एवमं तकनीकी संगोष्ठी, फरवरी 2, 2019, इमटेक, चंडीगढ़ (पावरपवाइंट प्रेजेंटेशन)

97^ण मांगे राम, "प्लास्टिक का प्रयोग व् प्रदूषण", राष्ट्रीय हिंदी तकनीकी संगोष्ठी, अगस्त 13-14, 2018, राष्ट्रीय हिंदी तकनीकी संगोष्ठी, सी.एस.आई.आर – संरचनात्मक अभियांत्रिकी अनुसंधान केंद्र एवं सी.एस.आई.आर मद्रास कॉम्प्लेक्स, चेन्नई

98^ण मांगे राम, "बैकेलाइट का उपयोग व् प्रदूषण", राष्ट्रीय हिंदी वैज्ञानिक एवं तकनीकी संगोष्ठी, दिसम्बर ६-७, २०१८, उच्च उन्नतांश अनुसंधान रक्षा संस्थान (डी.आर।डी।ओ-डी.आई।एच.आर), चंडीगढ़

99^ण सोनू कुमार और सी. सेतुरामन, "सौरफोटोवोल्टाइक प्रणाली में उपयोग की जाने वाली लेड एसिड बैटरी के लिए चार्ज की अवस्था का आकलन", राष्ट्रीय हिंदी तकनीकी संगोष्ठी: प्रौद्योगिकी दूरदृष्टि 2035- चुनौतियां एवं अवसर, आगस्त 13-14, 2018, सी.एस.आई.आर – संरचनात्मक अभियांत्रिकी अनुसंधान केंद्र एवं सी.एस.आई.आर मद्रास कॉम्प्लेक्स, चेन्नई (द्वितीय पुरस्कार)

Workshop/Symposium/Training Attended				
Sr. No.	Name of event	Date	Place of event	Name of participants
1.	Workshop on "SWAYAM"	May 28, 2018	Punjab Engineering College (Deemed To Be University), Chandigarh	Dr. Jitendra Virmani, SK Bothra
2.	Workshop on Energy Efficiency with Implementation of Energy Efficiency Building Codes(ECBC) in Residential Building	August 01-02, 2018	Punjab Energy Development Agency (PEDA), Bureau of Energy Efficiency, Ministry of Power, GOI	Sunderlal, SK Chaudhary
3.	E-Yantra Robotics Workshop	July 05-10, 2018	Indian Institute of Technology, Bombay	Kewal Kumar
4.	Deep Learning	August 06-10, 2018	National Institute of Technical Teachers Training & Research, Chandigarh	Dr. Jitendra Virmani
5.	Pradyogiki Doordrishti	August 13-14, 2018	CSIR-Structural Engineering Research Centre, Chennai	Mange Ram
6.	Education Employment Summit	September 06, 2018	National Institute of Technical Teachers Training & Research, Chandigarh	Narinder Singh Jassal
7.	Academic Leadership Program Organised by AICTE NWRO, Chandigarh	September 08-10, 2018	National Institute of Technical Teachers Training & Research, Chandigarh	Narinder Singh Jassal
8.	Programme on Intellectual Property Rights and Related Issues	September 10-12, 2018	CSIR-HRDC, Ghaziabad	Narinder Singh Jassal
9.	Capacity Building Workshop Program	October 08-12, 2018	CSIR-HRDC, Ghaziabad	Inderjit Singh
10.	Training on DeltaV Software used for Programming	December 17-21, 2018	EMERSON Process Control System , MIDC, New Mumbai	Inderjit Singh
11.	AICTE Workshop on Approval Process 2019-20	January 14, 2019	All India Council For Technical Education Hq, New Delhi	SK Bothra

12.	North India Business Conference	March 07, 2019	CII Northern Region, Chandigarh	Sandeep Singhai, Dr. Jitendra Virmani, PK Manjhi, Harichand Singh
13.	Expert Talk on Fit-n-Forget Solutions for Energy Saving in HVAC System	August 11, 2018	Indian Society of Heating and Air-conditioning Engineers (ISHRAE), Chandigarh	Sunder Lal
14.	Expert Talk on Motors, Transformers & Power Quality with Energy Saving	September 22, 2018	Indian Society of Heating and Air-conditioning Engineers (ISHRAE), Chandigarh	Sunder Lal
15.	Recent Advances in Organic & Bio-organic Chemistry, (RAOBC)	March 22-24, 2019	Indian Institute of Science Education and Research, Mohali	Preetismita Borah
16.	Conference on Annual General Meeting of MRSI and the Indian Materials Conclave	February 12-15, 2019	Indian Institute of Science, Bangalore	Pooja Devi
17.	Workshop on Nanomedicine	April 16, 2018	Dept. of Biotechnology, IIT, Delhi	Dr. Sanjeev Soni
18.	India Health Conclave by CEPR & society for affordable healthcare	December 21, 2018	Delhi	Dr. Amit Laddi
19.	DST-PGIMER Workshop on Innovation in Biomedical Instruments and Devices	February 13, 2019	PGIMER, Chandigarh	Dr. Amit Laddi
20.	Indo-French Workshop on Robotics for Rehabilitation (Robo-Rehab 2019) jointly organized by CSIR-CSIO, Chandigarh; Montpellier Laboratory of Computer Science, Robotics and Microelectronics (LIRMM), France; and Laboratory of Image, Signal and Intelligent System (LISSI), France	February 26-28, 2019	Hotel Shivalikview, CSIR-CSIO, Chandigarh	Arindam Chatterjee, Dr. Amit Laddi, Manjeet Singh
21.	CBME MedTech Workshop	March 07-10, 2019	IIT Ropar	Dr. Amit Laddi

22.	Photonics for Detonics	March 01-02, 2019	TBRL (DRDO) Ramgarh	Dr. Rajesh Kanawade
23.	2nd Certificate Programme in Technical Consulting	April 28-31, 2018	CSIR-HRDC, Ghaziabad	Dr. Rajesh Kanawade
24.	DST sponsored training programme on Big Data	February 11-15, 2019	C-DAC, Mohali	Virendra Kumar
25.	Training program on Electro Technical Calibration and Uncertainty in Measurements	February 21-22, 2019	ETDC, Chennai	R Geetha, Vineesh Mohan
26.	National workshop on Public Key Infrastructure : Creating Trusted Environment	January 22-23 2019	Society for Electronics Transactions and Security (SETS) and CDAC, Chennai	Mukesh Kumar, VP Anand
27.	2nd International conference on Bio resources, Energy, Environment and Materials Technology (BEEM-2018)	June 10 - 13, 2018	Gangwon Province, South Korea	Dr. Akash Deep
28.	Workshop on Strategy and Solutions for Better Health Care	February 13, 2019	Biomedical Instruments and Devices Hub, PGIMER, Chandigarh	Manjeet Singh
29.	Young Scientists' Conference - India International Science Festival 2018	October 05-06, 2018	GD Goenka Public School, Lucknow	Vikash Chandra
30.	Co-ordinated and participated as a Co-Chairman of a technical session of National Scientific & Technical Seminar organized by DRDO-DIHAR	December 2018	DRDO-SASE	Amitava Das
31.	Technologies for Solar Driven Fuel Generation	November 02, 2018	CSIR-CEERI Unit, CSIR Madras Complex	Dr. S. Prabhakaran
32.	Gaj Mahotsav	August 12-15, 2018	Indira Gandhi National Centre for the Arts, New Delhi	Satish Kumar Ripul Ghosh Aparna Akula Siddhartha Sarkar Amarendra Goap
33.	Inception-cum Planning Workshop on Knowledge Support to Development of Guidelines, Specialized Field Studies and Training on Human	August 24, 2018	Wildlife Institute of India, Dehradun	Ripul Ghosh

	Wildlife Conflict Mitigation in India			
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Lectures delivered by scientific/technical staff of CSIO:

Prof. R. K. Sinha

- “Zero-index Materials’, Zhejiang University, China (XX-XX 2019)

Dr. Akash Deep

- “Development of Metal-Organic Framework (MOF) Based Conducting Platforms for Sensing Applications”, CHASCON-2019, March 14, 2019, Panjab University, Chandigarh
- “Development of Metal-Organic Framework Based Enzymatic Biosensor for Convenient and Sensitive Detection of Organophosphate Pesticides”, Workshop on Sensors & IOT , December 18, 2018, The Indian Institute of Technology Ropar, Punjab
- “Development of Metal-Organic Framework Based Enzymatic Biosensor for Convenient and Sensitive Detection of Organophosphate Pesticides”, 3rd International Conference on Soft Materials (ICSM-2018), December 09-14, 2018, Malaviya National Institute of Technology Jaipur, Rajasthan
- “Fast and Convenient Detection of Organophosphate Pesticides with Biosensors”, AGRI-SMART-2018, November 19, 2018, CDAC-Mohali, Punjab
- “Bioconjugated Metal-Organic Frameworks as Sensors For Various Environmental Pollutants”, National Symposium on Current Trends and Future Prospects in Biotechnology, November 10-11, 2018, UIET, Panjab University, Chandigarh
- “Enzyme Immobilized Metal-Organic Frameworks as Improved Substrates”, 2nd International Conference on Bioresources, Energy, Environment, and Materials Technology (BEEM 2018), June 10-13, 2018, Daemyung Resort, Hongcheon, Gangwon Province, Korea

Dr. Sunita Mishra:

- “ NIR Spectroscopy for Food Quality, International conference on Technological Innovations for Integration of Food and Health (TIIFH 2019): A focus on North-East India, February 14-16, 2019, Tezpur University, Assam

- “Analytical Instruments for Chemical Analysis”, Management Development Programme on Operation and Maintenance of Analytical Equipment, January 01-25, 2019, CSIR-CSIO, Chandigarh
- “NIR Spectroscopy for Biomedical Instrumentation”, Management Development Programme on Operation, Maintenance & Repair of Biomedical Equipment”, October 03-27, 2018, CSIR-CSIO, Chandigarh
- "Physics and Experiments", KVS- ZIET Academy, July 26, 2018, Chandigarh

Dr Sachin Tyagi

- “Metallic Nanoparticles in Conjugation with Fluorescent Nanoparticles for Nitroaromatic Explosive Sensing”, chaired the session and judge the poster presented at International Symposium on Functional Materials (ISFM-2018): Energy and Biomedical Applications, jointly organized by IIT Kanpur, Panjab University and University of Illinois, Chicago, USA, April 13-15, 2018, Hotel Shivalik View, Chandigarh
- Honored by chairing the session and judging the poster presented in National Conference on Advanced Materials and Devices for Futuristic Applications (AMDFA-2018), organized by Chandigarh University, Mohali, Punjab, India, on 19-20 May 2018.
- “Nanomaterials Based Sensors for Explosive, Ethanol and Ammonia Detection”, Physics Department, October 13, 2018, KMV Mahavidhyala, Jalandhar
- “Ferrite Based Magnetic Nano Composites for Gas Sensing and Microwave Absorption Application”, National Conference on Materials & Nanotechnology: Ideas, Innovation & Initiatives (NCMN-2019), February 15-16, 2019, GLA University, Mathura

Dr. S. Prabhakaran

- “Induction Motor Performance Analyzer (IMPA) – Technology Overview” , Two-day Technology Awareness Training Program on UMPA organized by M/s Industrial Controls & Drives India Private Limited, Chennai, August 13, 2018 M/s. RAMCO Cements Limited (RCL), Ariyalur, Tamil Nadu
- “Successful CSIR Technologies & Achievements”, Recent Inventions & Innovations – 10/10 & Energy Generation & Conservation , JIGYASA-18 programs scheduled at KV-1 and KV-2 Schools , December 13-14, 2018, Vishakapatnam, Andhra Pradesh
- "Plastic - The known Enemy for Living Things" , The National Conference on Beat Plastic Pollution, January 31, 2019, Justice Basheer Ahmed Sayeed College for Women, Chennai

- “Thinking of becoming a Scientist – Ways & Means” in JIGYASA-18 Scientist-Students Meet , January 31, 2019, CSIR-SERC, Chennai
- “Metering to Management System – Role of CSIO” , Two-day workshop on Green Energy Technologies - Energy Management & Efficiency Monitoring Systems (GET-EMEMS), in the eve of CSIR-CSIO Diamond Jubilee Celebration organized by CSIR-CSIO Chennai Centre, February 6, 2019, Madras Fertilizers Limited, Manali, Chennai
- “Efficiency Monitoring Systems – Motors& Pumps”, Two-day workshop on Green Energy Technologies - Energy Management & Efficiency Monitoring Systems (GET-EMEMS), in the eve of CSIR-CSIO Diamond Jubilee Celebration organized by CSIR-CSIO Chennai Centre, February 6, 2019, Madras Fertilizers Limited, Manali, Chennai
- “Robotics & Automation – Role of Young Minds for Future India”, Inaugurated the Atal Tinkering Lab – Robotics for School Children and delivered lecture, February 14, 2019, New India Matriculation Higher Secondary School Deevattipatti danishpet, Bommidi Road, Ramamurthi Nagar, Salem
- “Condition & Performance Monitoring of Induction Motors”, 5th International Conference on Energy Systems (ICEES 2019), February 22, 2019, Department of Electrical and Electronics Engineering, S.S.N. College of Engineering, Chennai

Dr. C. Sethuraman

- "Energy Analysis and Use of Green Energy Technologies in Industrial Thermal Systems", Two-day workshop on Green Energy Technologies - Energy Management & Efficiency Monitoring Systems (GET-EMEMS), February 6, 2019, Madras Fertilizers Limited, Manali, Chennai, Tamil Nadu

Aparna Akula

- “Intelligent Sensing Systems: Intelligence at Edge and Cloud”, BRICS Young Scientist Alumni Workshop 2018, December 02-04, 2018, NIAS Bangalore
- “Human Activity recognition through deep learning”, Short-term course on Deep Learning, August 9, 2018, Education television Center, NITTTR Chandigarh

Pooja Devi

- “Functional Carbonaceous Materials for Heavy Metals Quantification in Water”, International Conference on Advanced Materials (ICAM-2019), March 07, 2019, Jamia Malia University, Delhi, India
- “Selective Detection of Toxic Metalloids using Carbonaceous Nanostructured Materials”, GC Jain Memorial Lecture, 1st Indian Material Science Conclave and 30th AGM Material Research Society of India, February 14, 2019, Iisc Bangalore
- “Fourier Transform Infrared Spectroscopy”, Management Development Programme on Operation and Maintenance of Analytical Equipment, January 14, 2019, Chandigarh
- “Carbonaceous Fluorescent Dots: Promising Candidates for Applications in Sensing, Energy Harvesting, and Security Inks”, ISCA Young Scientist Award Category, 106th Indian Science Congress, January 04, 2019, Lovely Professional University, Jalandhar
- “Materials for Emerging Water Pollutants Detection”, BRICS Young Scientist Alumni Conclave, December 03, 2018, National Institute of Advanced Studies, Bangalore
- “Electrochemistry: Fundamental and Applications, Upskilling Chemistry Teachers on latest Pedagogical tools for Impactful Teaching, December 09, 2018, VIGNAN University, Guntur, Andhra Pradesh
- "Materials Engineering for Sustainable Solutions Towards Environment and Energy", ISEES Young Scientist and Best Thesis Award Lecture Session, 3rd International conference of International Society for Energy, Environment and sustainability, “Sustainable energy and environment challenges (SEEC 2018), December 18, 2018 IIT Roorkee
- “Energy Management and Popularization of Science”, Kendriya Vidalya School OCF 29, December 21, 2018, Chandigarh
- “JIGASA: A Science Outreach Program”, State Level Children Science Congress, CSIO-ISTC, December 06, 2018, Chandigarh
- Pooja D., "Popularization of Science and Energy Resource", KVS OCF, 29 B, Chandigarh (Under JIGYASA Outreach), December 21, 2018, Chandigarh

- Dr. Manoj Nayak, Expert lecture on ‘Photoluminescence Spectroscopy’ and hands on training, Indian Technical and Economic Cooperation (ITEC) Program, 11th January 2019, CSIR-CSIO Chandigarh

Samir K Mondal

- “Optical Fiber Nanoantenna: Nano-Photonics to Optical Tweezers”, September 13, 2018, OIST, Japan
- “Optical Nanoantenna”, Zhejiang University, China (XX-XX 2019)

Dr. Umesh Tiwari

- “Recent Developments of FBG Sensors for SHM and Detonics Applications”, Workshop on Photonics for Detonics, March 01-02, 2019, TBRL-DRDO, Chandigarh
- “The Recent Developments and Challenges in Immobilized Optical Fiber Biosensors”, International Conference on Photonics, Metamaterials and Plasmonics (PMP-2019), February 14-16, 2019, Jaypee Institute of Information Technology Noida
- “Optical Amplifiers: Design, Simulation & Analysis”, Expert Talk, September 12, 2018, NITTTR, Chandigarh
- “Fiber Gratings & FBG based Sensors” Expert Talk, July 26, 2018, , National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh

Dr. Rajesh Kanawade

- “Axicon Fiber Optic Sensor for Volatile Organic Gases Detection”, National Conference Emerging Materials and Nanotechnology (EMAN-2019) , January 18-19, 2019, C.T. Bora College, Pune
- "Endoscope System", ITEC Management Development Programme on Operation, Maintenance & Calibration of Biomedical Equipment, October 1-26, 2018, CSIR-CSIO, Chandigarh

Dr. Amit Laddi

- “Intelligent Patient Vehicle”, ITEC Management Development Programme on Operation, Maintenance & Calibration of Biomedical Equipment, October 1-26, 2018, CSIR-CSIO, Chandigarh

Dr. Prasant Mahapatra

- “3D Vision System”, ITEC Management Development Programme on Operation, Maintenance & Calibration of Biomedical Equipment, October 1-26, 2018, CSIR-CSIO, Chandigarh
- "3D Vision for Biomedical Application", Short term course on Recent Trends in Biomedical Instrumentation, March 27, 2019, National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh

Dinesh Pankaj

- “Overview of Biomedical Instrumentation”, ITEC Management Development Programme on Operation, Maintenance & Calibration of Biomedical Equipment, October 1-26, 2018, CSIR-CSIO, Chandigarh

Dr. Sanjeev Soni

- “Nanoparticle assisted thermal therapeutics”, 1st as part of the BIOCAMP, National Symposium on Current Trends and Future Prospects in Biotechnology, November 01, 2018, University Institute of Engineering and Technology (UIET), Panjab University Chandigarh
- “Functional Materials and Instrumentation Activities of CSIO”, International Symposium on Functional Materials (ISFM-2018): Energy and Biomedical Applications, April 13-15, 2018, Chandigarh

Sanjeev Verma

- “PC based fully automatic Batch Analyser for clinical chemistry”, Management Development Program on Operation & Maintenance of Analytical Equipment, January 07, 2019 , CSIR-CSIO, Chandigarh.
- “PC based fully automatic Batch Analyser for clinical chemistry”, ITEC Management Development Programme on Operation, Maintenance & Calibration of Biomedical Equipment, October 1-26, 2018, CSIR-CSIO, Chandigarh

Vijay Kumar Meena

- "Additive manufacturing for biomedical implants", Short term course on Recent Trends in Biomedical Instrumentation, March 26, 2019, National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh
- “Medical Additive Manufacturing”, 3D PrintTech, June 29, 2018, CII, Hyderabad

Upendra Kumar

- “Repair & Maintenance of Analytical Equipments”, ITEC Training Program, December 20-21, 2018, SNM Div, New Delhi
- “Pre-Dispatch Inspection of Dental Equipments and Accessories”, March 10-12, 2019, UP Health System Strengthening Project (UPHSSP), Lucknow
- “Repair & Maintenance of Biomedical Equipments”, March 10-12, 2019, EME School Vadodara

Harsh Kumar

- “Welding laboratory practices”, STC programme, August 06-10, 2018, NITTTR, Chandigarh

Narinder Singh Jassal

- Expert Talk on “FMS and CIM Systems” STC FDP, January 24, 2019, NITTTR, Chandigarh
- Expert Lecture on “PRISM Scheme”, The Entrepreneur Startup Summit 2018, January 20- 21, Hotel The Lalit, Chandigarh

Dr. Jitendra Virmani

- Expert talk on “Microprocessors and Its Applications” The ageis of Computer Society of India and IEEE Student Forum , March 8, 2019, CGC College of Engineering & Technology, Landran, Mohali, Punjab
- Expert talk on “Transition from Machine Learning to Deep Learning: A Characterization Approach”, Short term course on Artificial Intelligence and Optimization through ICT, January 22, 2019, NITTTR, Chandigarh