

# International Conference on Optical and Wireless Technologies

March 16 – 17, 2019, MNIT Jaipur

## Conference Program

Conference First Day: March 16<sup>th</sup>, 2019(Saturday)

[Venue (Invited Talk): Neeti Sabhagar, MNIT Jaipur (except parallel sessions)]

Registration: 8:30am – 9:15am, March 16, 2019

(Venue: Lobby outside Neeti Sabhagar, II Floor Prabha Bhawan, MNIT Jaipur)

- At registration desk, please bring the print of registration fee receipt and signed copyright form
- Proof of membership (IEEE/OSA/SPIE/IETE, etc. as applicable)

S.No.	Timing	Event	Remark
01	09:15am-09:45am	Inaugural	<ul style="list-style-type: none"><li>• Lamp Lighting</li><li>• Welcome of Guests (Bouquet)</li><li>• About the Conference</li><li>• About the Institute</li></ul>
02	09:45am-10:30am	Keynote Address	Prof. Manijeh Razeghi, (OSA Traveling lecturer) Northwestern University, USA <i>“Engineering the Quantum Era: Breaking Spectral Barriers for Photonics”</i>
03	10:30am-11:00am	<b>High Tea Break</b>	
04	11:00am-11.45am	Invited Talk-I	Prof. Philippe Gallion Emeritus Professor, TélécomParisTech <i>“Advanced Optical Communications and Networking”</i>
05	11:45am-12.30pm	Invited Talk-II	Prof. Ratnajit Bhattacharjee, Indian Institute of Technology, Guwahati <i>“Photoconductive Antenna: A radiation source for the Terahertz Band”</i>
06	12.30pm-1.45pm	<b>Conference Lunch Break (Prabha Bhawan)</b>	
07	1.45pm-2.30pm	Invited Talk-III	Dr Vinod Kumar, Dir (Retd.) Wireless Research, Alcatel-Lucent Bell Labs, France <i>“5G Standardization and Deployment: Focus on 5G NR”</i>
08	2:30pm – 3:15pm	Invited Talk-IV	Dr.Yaseera Ismail, University of KwaZulu Natal, Durban, South Africa <i>“Quantum Communication, the next generation of optical communication”</i>
09	3.15pm – 3.35pm	Sponsor Presentation	Sh. Gagan Goel, Agmatel
10	3:35pm – 3.50pm	<b>Tea Break</b>	
11	3:50pm – 5.50pm	Technical Session-I	IA: Optical Technologies [NKN-1] IB: Wireless Technologies [NKN-2] IC: Optical Technologies [CCC Lab-3] ID: Wireless Technologies [CCC Lab-4]

Conference Second Day: March 17<sup>th</sup>, 2019 (Sunday)  
 [Venue (Invited Talk): Neeti Sabhagar, MNIT Jaipur (except parallel sessions)]

S. No.	Timing	Event	Remark
01	09:00am – 10:30am	Technical Session-II	IIA: Optical Technologies [NKN-1] IIB: Wireless Technologies [NKN-2] IIC: Optical Technologies [CCC Lab-3] IID: Wireless Technologies [CCC Lab-4]
<b>02</b>	<b>10.45pm –11.00am</b>	<b>Tea Break</b>	
03	11:00 am-11:45am	Invited Talk-V	Prof. V. Sinha, Chair Professor, E&ICT Academy, MNIT Jaipur <i>“A Tutorial on Error Control Coding for Mobile Communication”</i>
03	11:45am-12.45am	Invited Talk-VI	Dr Rajiv Mathur, CTO and Director, Chainvine Ltd. <i>“Blockchain – The ‘Invisible’ technology that is ‘Visibly’ changing the world”</i>
<b>05</b>	<b>12.45pm-2:00pm</b>	<b>Conference Lunch Break (Prabha Bhawan)</b>	
06	2:00pm-3.30pm	Technical Session-III	IIIA: Wireless Technologies [NKN-1] IIIB: Skype / Optical Technologies [NKN-2] IIIC: Wireless Technologies [CCC Lab-3]
07	3.30pm-4.00pm	<b>Tea Break</b>	
08	4.00pm-5.00pm	Certificate, fee receipt collection from the Desk, Group Photo	

## Paper Schedule (Tentative)

<b>Date :</b>	<b>16.03.2019</b>
<b>Time:</b>	<b>03:50 PM – 05.50 PM</b>
<b>Session:</b>	<b>I-A</b>
<b>Venue:</b>	<b>NKN-1</b>

Paper Id	Paper Title	Registered Author
1570511667	Long Range Surface Plasmon Resonance induced Tunable Optical Bistability using Silver Nano-Layer at 1550 nm	Nabamita Goswami
1570513533	Approaches of Gigabit class Transmission for VLC with $\mu$ LED based WDM system	Muhammad Towfiqur Rahman
1570513953	OFDM with Spatial Diversity Is-OWC System	Sunita Khichar
1570514229	Realization of low-cost field-deployable He-Ne Laser based sensor system to check quality of food from adulteration	Sanjeev Raghuwanshi
1570514281	Experimental evaluation of Reliable Underwater optical communication in the presence of turbulence and blockage	Prasad Ramavath
1570514500	Impact of Core Counts and Layouts on Dispersion Behavior in Homogeneous Multicore Fiber	Umar Farooque
1570514563	Erbium Doped Optical amplifiers- Origin to Latest trends	Asifiqbal Thakor
1570514567	An Approach for Reduction of Cross-talk in Multi Core Optical Fibers	Shroddha Mukhopadhyay
1570514569	Measurement of Angular Velocity and Tilt Angle of Two Dimensional Fiber Optic Gyroscope with Sagnac Effect	Somesh Mule
1570514573	A Simple Structural Design for Tuning of Bandgap and Window In 1D Photonic Crystal	Arghadeep Pal

<b>Date :</b>	<b>16.03.2019</b>
<b>Time:</b>	<b>03:50 PM – 05.50 PM</b>
<b>Session:</b>	<b>I-B</b>
<b>Venue:</b>	<b>NKN-2</b>

Paper Id	Paper Title	Registered Author
1570514488	Performance of SM-NSTBC for correlated HAP fading channels with Imperfect-CSI	Shrutkirthi Godkhindi
1570514620	Traffic Control Enhancement with Video Camera Images using AI	Kriti Singh
1570514657	Role of Coupling Angle on the Performance of a Ring Resonator-Waveguide Sensor	Madhusudan Mishra
1570516554	Security for Mobile System: 5G	Naresh Kumar
1570516560	Security in Wireless Sensor Network using IPsec	Annu Dahiya
1570521661	Analysis and Investigation of single input multiple output (SIMO) channel model using diversity combining techniques	Meenal Parihar
1570521667	Optimal Pricing for RAP in Heterogeneous Wireless Railway Networks	Vaishali Singh
1570521675	Novel Design of Compact Half Equilateral Triangular MSAs Gap-coupled with Sectoral Patches	Vivek Chaudhary
1570521764	Numerical investigation of T-shape waveguide based Directional coupler	Radhakrishnan S
1570526015	Light Fidelity- A Novel Breakthrough towards 5G Networks	Kotha Tribhuvan

<b>Date :</b>	<b>16.03.2019</b>
<b>Time:</b>	<b>03:50 PM – 05.50 PM</b>
<b>Session:</b>	<b>I-C</b>
<b>Venue:</b>	<b>CCC Lab-3</b>

Paper Id	Paper Title	Registered Author
1570519501	Light Fidelity(Li-Fi), A New Approach for Internet Inside Running Metro	Ajit Kumawat
1570520258	Throughput Maximization in High Speed Train Using Hybrid RF/FSO Communication System	Ankita Chauhan
1570520653	Design of Half Adder using Electro-Optic Effect in Mach-Zehnder Interferometer	Manisha Prajapat
1570520664	Dual band Plasmonic filter using Nano Slit Loaded Ring Resonator	Yazusha Sharma
1570520862	Forward Error Correction Codes- Reed-Solomon and LDPC for OFDM over the Optical Fiber Communication Systems	Usha Choudhary
1570520937	Design and Performance Analysis of Chromatic Dispersion Compensation through Linear Chirp Fiber Bragg Grating for DWDM Optical Transmission System	Rajkumar Gupta
1570520989	Theoretical study of transmission coefficient and IV characteristic of double barrier GaAs/Ga <sub>1-x</sub> Al <sub>x</sub> As heterostructure at different composition 'x'	Manish Kumar Yadav
1570521839	The Effect of Atmosphere on FSO Communication at Two Optical Windows under Weather condition of Bhubaneswar city	Jagana Padhy
1570522108	Performance Analysis of Under Water 2D OCDMA System	Ajay Yadav
1570522174	Characterization of Crosstalk under Bending and Twisting condition in Homogeneous Multicore Fiber	Piyush Ranjan

<b>Date :</b>	<b>16.03.2019</b>
<b>Time:</b>	<b>03:50 PM – 05.50 PM</b>
<b>Session:</b>	<b>I-D</b>
<b>Venue:</b>	<b>CCC Lab-4</b>

Paper Id	Paper Title	Registered Author
1570502909	Compact Multi-band Octagonal Shape Patch Antenna with a Partial Ground for WLAN/WIMAX Applications	Swasti Dubey, Kunal Singh
1570511000	A review of technique to design tunable metamaterial covered antenna	Suyog Pande
1570514627	Reconfigurable slot based MIMO antenna for Cognitive Radio Application	Shilpi Singh
1570514663	CPW-Fed Triple Band Circularly Polarized Printed Inverted C-shaped Monopole Antenna with Closed Loop and Two Semi Hexagonal Notches on Ground Plane	Reshmi Dhara
1570519322	Analysis of Microstrip Patch Antenna with Multiple Parasitic Patches and Shorting Vias For Bandwidth Enhancement	Chinmay Kudoo
1570519325	Multiband Response Investigation For Stub Loaded Right Angled Isosceles Triangle Microstrip Antenna	Mansi Shah
1570521430	Asymmetric CPW-Fed Multistubs Loaded Compact Printed Multiband Antenna for Wireless Applications	Ashok Kumar
1570521679	Wide band Designs of Unequal Lengths Slot cut Microstrip Antennas Backed by Slotted Ground Plane	Amita Mhatre
1570522114	Ring-Shaped Microstrip Antenna with Dual Band 8.1GHz/10.2GHz for X-Band Application	Priyanka KM
1570522180	Dollar shaped Multiband Antenna Covered with Open ended Circular strip for Wireless Communication System	Pooja

<b>Date :</b>	<b>17.03.2019</b>
<b>Time:</b>	<b>09.00 AM – 10.30 AM</b>
<b>Session:</b>	<b>II-A</b>
<b>Venue:</b>	<b>NKN-1</b>

Paper Id	Paper Title	Registered Author
1570514652	Performance Analysis of Key Parameters of WDM MUX/DEMUX with and without Optical Amplifier	Sakshi Sharma
1570521243	Polarization Encoded multi logic functions with direct detection	Jitendra Kumar Saini
1570521250	Parametric Analysis of Optical Microring Resonator	Ankur Saharia
1570521288	Low-temperature Gain Measurements of Self-assembled Quantum Dot Lasers	
1570522172	Numerical investigation of nonlinear parameters of chalcogenide based holey fiber for supercontinuum generation in mid-infrared region	Shruti Kalra
1570522175	Design and Crosstalk Analysis in Homogeneous Trench-assisted Multicore Fiber under Single Mode Condition	Dablu Kumar
1570524991	Realization of Inter-satellite Optical Wireless Wavelength Division Multiplexed system with Polarization Interleaving for LEO, MEO and GEO satellites	Ruchi Sharma

<b>Date :</b>	<b>17.03.2019</b>
<b>Time:</b>	<b>09.00 AM – 10.30 AM</b>
<b>Session:</b>	<b>II-B</b>
<b>Venue:</b>	<b>NKN-2</b>

Paper Id	Paper Title	Registered Author
1570513087	A Novel Four Element MIMO Antenna with Dual Polarized for 5G WiFi Applications	Nitesh Yadav
1570519337	Circularly Polarized Swastik Shape Microstrip Antenna	Chinmay Kudoo
1570519341	Bandwidth Enhancement of E and U-slot Embedded Microstrip Antenna Using Sectoral Patches	Mansi Shah
1570519343	A Review On Multiple Input Multiple Output(MIMO)	Shreya Bhandia
1570521687	Single Feed Corner Trimmed Circularly Polarized Diagonal Patch Antenna	Shipra Bhatia
1570521693	UWB Antenna for Breast Cancer Detection Using Back Scattering	Praveen Kumar Rao
1570522210	Multiband Antenna For Wireless Applications	Akanksha Sancheti, Samkhsha Fulzele, Samiksha Gawali, Divyani Rane

<b>Date :</b>	<b>17.03.2019</b>
<b>Time:</b>	<b>09.00 AM – 10.30 AM</b>
<b>Session:</b>	<b>II-C</b>
<b>Venue:</b>	<b>CCC Lab-3</b>

Paper Id	Paper Title	Registered Author
1570521876	Secrecy Performance Analysis for Multi-Hop and Single-Hop Relaying Model	Shweta Pal
1570522088	Energy Efficient MAC-ROUTE Cross Layer Optimal Distance Chain Protocol for Wireless Sensor Network	Prathibha P m
1570522101	Baud Rate Based Hierarchical Multihop Routing Protocol for WSNs	G v Sowmya
1570522138	Studies of Various Artificial Magnetic Conductor for 5G Application	Ashok Kumar
1570525007	M-way Balanced Tree Data Aggregation Approach for Clustered Wireless Sensor Networks	Vipin Pal
1570526009	Modified Gbest Guided ABC Algorithm Approach Applied to Various Non-linear Problems	Himani
1570530558	Design and Simulink Implementation of Electrical Vehicle Charging Using Wireless Power Transfer Technology	Manish Thukral

<b>Date :</b>	<b>17.03.2019</b>
<b>Time:</b>	<b>09.00 AM – 10.30 AM</b>
<b>Session:</b>	<b>II-D</b>
<b>Venue:</b>	<b>CCC Lab-4</b>

Paper Id	Paper Title	Registered Author
1570514582	Vibration Measurement Using Optical Homodyne Detection	Sonal Pawar and PrashantKumawat
1570514611	Detection of Elements in Contaminated Water using LASER Absorption Technique	Karunesh Loke
1570514679	Parametric Analysis of Erbium Doped Fibre Amplifiers using OptSim	Prem Babu
1570521644	Nanorod Dimer based Optical Fiber Plasmonic Sensor	Manoj Falaswal
1570522110	Next Generation PON with Enhanced Spectral Efficiency: Analysis and Design	Mukesh Gupta
1570522116	Analysis of transmission spectra of a Metal Liquid crystal Metal waveguide structure with different metallic layers	Ronak Dadhich
1570522203	Measurement of Vibration on Liquid Surface with Laser Diffraction Technique	Heena Afroz Ashrafi, Maaz Abdul Rahim Ansar

<b>Date :</b>	<b>17.03.2019</b>
<b>Time:</b>	<b>02.00 PM – 03.30 PM</b>
<b>Session:</b>	<b>III-A</b>
<b>Venue:</b>	<b>NKN-1</b>

Paper Id	Paper Title	Registered Author
1570514266	Power efficient and High Speed 32- Bit Carry select Adder using Full Swing Gate Diffusion Input Technique for Digital Signal Processing Applications	Vidisha Mathur
1570514617	Optimization of Slotted-ALOHA using Q-Learning	Shreya Tyagi
1570514795	High Performance double split series stacked multilayer On-chip Inductor for 5G applications	Machavaram Venkata Raghunadh
1570521214	Fuzzy Based Path Selection Technique to Reduce Energy Consumption of Nodes in MANETs	Ashutosh Sharma
1570522211	Broadband Circularly Polarized CPW-Fed Inverted-L Grounded Strips and SRR Loaded Square Slot Antenna for Wi-Fi/WiMAX/5G Applications	Rashmi Kapur
1570526014	An UWB Antenna with Dual Notched Band Characteristics at WLAN Band and X-Band Application	Sanjeev Yadav
1570534726	Hybrid Chaining Security Approach in Cloud Computing	Vartika Kulshrestha

<b>Date :</b>	<b>17.03.2019</b>
<b>Time:</b>	<b>02.00 PM – 03.30 PM</b>
<b>Session:</b>	<b>III-B (Skype / Optical)</b>
<b>Venue:</b>	<b>NKN-2</b>

Paper Id	Paper Title	Registered Author
1570511922	Design of nine shape MIMO Antenna using parasitic elements to reduce mutual coupling	K Vasu Babu
1570514197	Lightweight Secure MQTT for Internet of Things	Adil Bashir
1570514759	Phase Carrier approach based on Optical Code Division Multiple Access Networks	Dr. Hilal A Fadhil
1570520575	A Miniaturized Printed UWB Antenna with Sextuple Stop Bands Based on U-Shaped Slot Resonators and Split Ring Resonators for IoT Applications	Nikhil Mishra
1570521702	Implementation of SAC-OCDMA System using Generalized Codes over FSO Channel	Sharwan Jangid
1570525000	Phase-Coded Multiplexing technique for Holographic Data Storage System	Kanjana G
1570521676	Study of approaches to implement the prism based surface plasmon resonance sensors	Nitesh Mudgal

<b>Date :</b>	<b>17.03.2019</b>
<b>Time:</b>	<b>02.00 PM – 03.30 PM</b>
<b>Session:</b>	<b>III-C</b>
<b>Venue:</b>	<b>CCC Lab-3</b>

Paper Id	Paper Title	Registered Author
1570521749	Design and Investigation of Octagonal Patch Antenna Using Artificial Magnetic Conductor for 5G Applications	Arjun Kumar
1570521781	Design and Analysis of Slot Coupled Antenna on different Dielectric Materials	Anjaneyulu Gera
1570521841	Design and Analysis of SRR Inspired Ultra Wide Band Antenna	Himanshu Garg
1570522086	Investigation of Substrate Integrated Waveguide (SIW) filter with Defected Ground Structure (DGS)	Amrita Dixit
1570522115	Comparative Analysis of a Novel Shape Patch Antenna for Wi-Max Band with Genetic Algorithm Optimization	Priyanka Jain
1570522155	A Tri-Band Reject Frequency Selective Surface with Dodecagon Patch Element	Jaiverdhan
1570522194	A Cavity-Backed Dual-Band SIW Antenna With Enhanced Gain and Harmonic Suppression	Mr. Ramesh Kumar and Ms. Chenchani Vasanthi