IEEE ANTS 2014

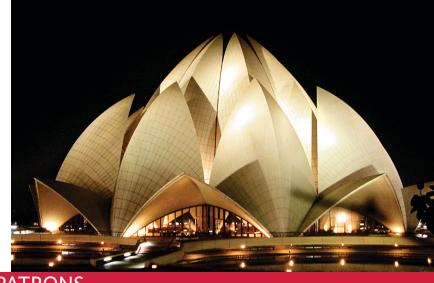**Dec. 14-17, 2014, New Delhi, INDIA**

8th IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)

PATRONS

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PROGRAM AT-A-GLANCE

Day 1		Sunday, Dec. 14, 2014

Room / Venue	Duration	TUTORIALS
Conference	09:00 a.m. - 01:15 p.m.	T1: Basics of Sensor Networks and Security Issues, **Dharma P. Agarwal**, Univ of Cincinnati
Meeting	09:00 a.m. - 01:15 p.m.	T2: Emerging Trends in Cloud computing and Role of NFV and SDN for next generation networks, **Laxman, B.,** Freescale
	01:15 p.m. - 02:00 p.m.	LUNCH
Conference	02:00 p.m. - 06:15 p.m.	T3: Optical Networking and the Future Internet, **Byrav Ramamurthy**, Univ of Nebraska-Lincoln
Meeting	02:00 p.m. - 06:15 p.m.	T4: Information Centric Networks: the Internet of the future, by **Anantha Simha, Hemant Kumar Rath, Samar Shailendra, Bighnaraj Panigrahi** and **Rajan** MA, TCS

Day 2		Monday, Dec. 15, 2014

Auditorium	09:00 a.m. - 05:00 p.m.	Registration
Auditorium	09:00 a.m. - 10:30 a.m.	Inauguration Session and Keynote Talk 1: **Vipin Tyagi,** Director, C-Dot, New Delhi, Future of Telecom and Technology: Role of C-Dot (and India)
	10:30 a.m. - 10:45 a.m.	Tea / Coffee Break (Sponsored by C-DOT)
Auditorium	10:45 a.m. - 11:05 a.m.	Invited Talk 1: Device-to-Device (D2D) Communication and Offloading – A step towards 5G, **Anantha Simha**
Auditorium	11:05 a.m. - 11:25 a.m.	Invited Talk 2: Context Aware, Policy based approaches to (Network) Security, **Anupam Joshi,** Oros Family Chair Professor, Director, UMBC Center for Cybersecurity, Visiting Professor, IIT Delhi
Auditorium	11:25 a.m. - 01:15 p.m.	Track 1: Session 1A: Broadband Wireless Networks I
Conference	11:25 a.m. - 01:10 p.m.	Track 2: Session 1B: Optical Networks I
	01:15 p.m. - 02:15 p.m.	LUNCH
	02:15 p.m. - 04:30 p.m.	
Auditorium	02:15 p.m. - 03:00 p.m.	Keynote Talk 2: **Inder Monga,** Chief Technologist and R&D Area Lead, Esnet, Exploring new architectures - SDN and NDN

Day 2		Monday, Dec. 15, 2014
Auditorium	03:00 p.m. - 04:30 p:m.	Panel 1: Technology, Policy Challenges & Solutions to enable the Digital India Vision
	04:30 p.m. - 04:45 p.m.	Tea / Coffee Break
Auditorium	04:45 p.m. - 06:35 p.m.	Track 1: Session 2A: Wireless Sensor Networks
Conference	04:45 p.m. - 06:35 p.m.	Track 2: Session 2B: Cognitive Radio Networks
Day 3		**Tuesday, Dec. 16, 2014**
Auditorium	09:00 a.m. - 05:00 p.m.	Registration
Auditorium	09:00 a.m. - 09:45 a.m.	Keynote Talk 3: **R.K. Shevgaonkar**, Director, IIT Delhi, Photonics Crystals in Optical Communication
Auditorium	09:50 a.m. - 11:15 a.m.	Track 1: Session 3A: Wireless LAN
Conference	09:50 a.m. - 11:15 a.m.	Track 2: Session 3B: Network Security
Auditorium	11:15 a.m. - 11:35 a.m.	Invited Talk 3: Photonic Integration & Fast Shared Mesh Protection - Key Enablers for the Next Phase of Optical Build out in India, **Prasanjeet Khuntia**, Country Head, India sales at Infinera**.**
	11:35 a.m. - 11:50 a.m.	Tea/Coffee Break
Auditorium	11:50 a.m. - 01:15 p.m.	Panel 2: Next Generation Optical Transport Network Evolution & Challenges
	01:15 p.m. - 02:15 p.m.	LUNCH
Auditorium	02:15 p.m. - 03:00 p.m.	Keynote Talk 4: **Shyamasundar**, FIEEE, FACM, Senior Professor and **JC Bose**, National Fellow, Faculty of Technology & Computer Science, TIFR, Mumbai, Towards a Foundation of Security of SCADA
Conference	03:00 p.m. - 04:00 p.m.	Ph.D. Student Forum
Foyer	03:00 p.m. - 04:00 p.m.	Poster Session
Foyer	03:00 p.m. - 04:00 p.m.	Demo/Exhibits
	04:00 p.m. - 04:15 p.m.	Tea/Coffee Break
Auditorium	04:15 p.m. - 04:35 p.m.	Invited Talk 4: Deterministic Wireless for Internet of Things, **Mukesh Taneja**, Principal Engineer, Cisco Systems, India
Auditorium	04:35 p.m. - 06:25 p.m.	Track 1: Session 4A: Software Defined Networks
Conference	04:35 p.m. - 06:25 p.m.	Track 2: Session 4B: Broadband Wireless Networks II
	07:15 p.m. - 09:00 p.m.	Conference Banquet Dinner
Day 4		**Wednesday, Dec. 17, 2014**
Auditorium	09:00 a.m. - 05:00 p.m.	Registration
Auditorium	09.00 a.m. - 09:45 a.m.	Keynote Talk 5: **T. A. Gonsalves**, Director, IIT, Mandi, Musings on the Future Cloud in India
Auditorium	09:50 a.m. - 11:10 a.m.	Track 1: Session 5A: Transport Networks
Conference	09:50 a.m. - 11:15 a.m.	Track 2: Session 5B: Optical Networks II
	11:15 a.m. - 11:30 a.m.	Tea / Coffee Break
Auditorium	11:30 a.m. - 01:00 p.m.	Panel 3: IoT / Cloud Computing: Accelerators for Emerging Economies
	01:00 p.m. - 02:00 p.m.	LUNCH
Auditorium	02:00 p.m. - 02:45 p.m.	Keynote Talk: **Uday Desai**, Director, IIT Hyderabad, CPS and IoT: Smarter Societies**.**

Auditorium	02:50 p.m. – 04.20 p.m.	Track 1: Session 6A: Broadband Wireless Networks III
Conference	02:50 p.m. – 04.40 p.m.	Track 2: Session 6B: Network Applications
Auditorium	04:45 p.m. – 05:00 p.m.	Concluding Ceremony
	05:00 p.m. – 05:15 p.m.	Tea/Coffee Break

Tutorials

Morning Session - Sunday, Dec. 14, 2014, 9:00 AM - 1:15 PM
T1:   Basics of Sensor Networks and Security Issues, Dharma P. Agarwal, Univ of Cincinnati
T2:   Emerging Trends in Cloud computing and Role of NFV and SDN for next generation networks, Laxman, B., Freescale
Afternoon Session - Sunday, Dec. 14, 2014, 2:00 PM - 6:15 PM
T3:   Optical Networking and the Future Internet, Byrav Ramamurthy, Univ of Nebraska-Lincoln
T4:   Information Centric Networks: the Internet of the future, Anantha Simha, Hemant Kumar Rath,Samar Shailendra, Bighnaraj Panigrahi and Rajan MA, TCS

Keynote Addresses (Auditorium)

- Monday, December 15, 9:45 AM - 10:30 AM, K1: Keynote Talk: Future of Telecom and Technology: Role of CDOT (and India), Vipin Tyagi, Director, Centre for Development of Telematics (C-DOT)
- Monday, December 15, 2:15 PM - 3:00 PM, K2: Keynote Talk - Exploring new architectures - SDN and NDN, Inder Monga, Chief Technologist and R&D Area Lead, ESnet
- Tuesday, December 16, 9:00 AM - 9:45 AM K3: Keynote Talk Title: Photonics Crystals in Optical Communication, R.K. Shevgaonkar, Director, IIT Delhi
- Tuesday, December 16, 2:15 PM - 3:00 PM, K4: Keynote Talk - Towards a Foundation of Security of SCADA, Shyamasundar, Senior Professor and JC Bose National Fellow, Tata Institute of Fundamental Research
- Wednesday, December 17, 9:00 AM - 9:45 AM, K5: Keynote Talk - Musings on the Future Cloud in India, T. A. Gonsalves, Director, IIT, Mandi
- Wednesday, December 17, 2:00 PM - 2:45 PM, K6: Keynote Talk: CPS and IoT: Smarter Societies, Uday Desai, Director, IIT Hyderabad

Invited Talks (Auditorium)

- Monday, December 15, 10:45 AM - 11:05 AM, I1: Invited Talk: Device-to-Device (D2D) Communication and Offloading – A step towards 5G, Anantha Simha, Principal Research Scientist, CTO Networks Lab, TCS,
- Monday, December 15, 11:05 AM - 11:25 AM, 2: Invited Talk: Context Aware, Policy based approaches to (Network) Security, Anupam Joshi, Oros Family Chair Professor, Director, UMBC Center for Cybersecurity,
- Tuesday, December 16, 11:15 AM - 11:35 AM, I3: Invited Talk: Photonic Integration & Fast Shared Mesh Protection - Key Enablers for the Next Phase of Optical Build out in India, Prasanjeet Khuntia, Country Head, India sales at Infinera
- Tuesday, December 16, 4:15 PM - 4:35 PM, I4: Invited Talk: Deterministic Wireless for Internet of Things, Mukesh Taneja, Principal Engineer, Cisco Systems, India.

Technical Paper Session

Details are available at: Technical Program Sessions. Authors are requested to contact the Technical Program / General Co-Chairs if there are any questions/concerns.
(15/12/2014, 11:25am - 01:15pm, Session 1A, Auditorium)

Session 1A	Broadband Wireless Networks I	Session Chair: Debabrata Das, IIIT, Bangalore, India
1	LTE Multicast Communication for Demand Response in Smart Grids	Abhishek Roy (Samsung Electronics, Korea); Navrati Saxena (Sungkuynkwan University, Korea); Radha Kandoori (Sungkuynkwan University, Korea)
2	A Novel Access Scheme for IoT Communications in LTE-Advanced Network	Prashant Wali (IIIT Bangalore, India); Debabrata Das (IIIT Bangalore, India)
3	Optimal Resource Allocation Scheme for LTE-A Systems with Carrier Aggregation	Madan K Pande (IIT, Bangalore, India); Giuseppe Piro (Politecnico di Bari, Italy)
4	Simulative Analysis of Multimedia Traffic over LTE with Real Time Scenarios in Network Simulator-3	Nandu T S and Boopala Krishnan (Sri Sathya Sai Institute of Higher Learning, India); Kopparthi Harsha Theja and Bibhuti Pattnaik (SSSIHL, India); Anilal P (SSSIHL, India); Siva Sankara Sai Sanagapati (SSSIHL, India)
5	Walking Artifacts Mitigation for Improved Heading Estimation in a Reduced Multi-Sensor Configuration	Deepak Bhatt (Samsung Research India-Bangalore, India); Swarna Babu (Samsung Research Institute Bangalore, India)

(15/12/2014, 11:25am - 01:10pm, Session 1B, Conference Room)

Session 1B	Optical Networks	Session Chair: Matteo Fiorani, KTH Royal Institute of Technology, Sweden
1	A novel OLT protection for hybrid WDM-TDM optical access networks	Anirban Kanungoe and Goutam Das (IIT Kharagpur, India)
2	Parallel Circuit Provisioning in ESnet's OSCARS	Jeremy M. Plante, Dylan A.P. Davis and Vinod M. Vokkarane (Univ. of Massachusetts Lowell, USA)
3	An Efficient Traffic Grooming Policy for Heterogeneous WDM Mesh Networks	Asima Bhattacharya (Mara-Ison Information Services Pvt. Ltd., India); Amit Kumar Saha (IIES&T, India); Monish Chatterjee (Asansol Engineering College & West Bengal University of Technology, India)

(15/12/2014, 11:25am - 01:10pm, Session 1B, Conference Room)

Session 1B — **Optical Networks** — **Session Chair: Matteo Fiorani, KTH Royal Institute of Technology, Sweden**

4	Design of CapEx-Efficient IP-over-WDM Network using Auxiliary-Matrix based Heuristic	Suman Kr. Dey (IIT Patna, India); Aneek Adhya (IIT, Patna, India)
5	Cost-Efficient Live VM Migration Based on Varying Electricity Cost in Optical Cloud Networks	Abhishek Gupta (University of California Davis, USA); Uttam Mandal (UOC, Davis, USA); Pulak Chowdhury (UOC, Davis & Ennetix Inc., USA); Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy); Biswanath Mukherjee (UOC, Davis, USA)

(15/12/2014, 4:45pm - 6:35pm, Session2A, Auditorium)

Session 2A — **Wireless Sensor Networks** — **Session Chair: Venkatesh Sarangan, TCS Innovations Lab, Chennai, India**

1	Forwarding and Routing Cluster-Based Protocol for Wireless Sensor Networks	Randriatsiferana Rivo Sitraka, A. (University of La Réunion & Energy Electronic and Process Laboratory, France); Frederic Alicalapa and Antilahy Herimpitia T. C. (University of La Reunion, France); Richard Lorion (University La Réunion, France)
2	Development of a Wireless Sensor Network for Animal Management: Experiences with Moosense	Sanat Sarangi, Akshat Bisht and Vijay Rao (IIT, Delhi, India); Subrat Kar (IIT, Delhi, India); Tushar Kumar Mohanty and Anand Prakash Ruhil (National Dairy Research Institute Karnal, India)
3	Power Efficient Event Detection Scheme in Wireless Sensor Networks for Railway Bridge Health Monitoring System	Soumendu Ghosh, Maroju Suman and Raja Datta (Indian Institute of Technology Kharagpur, India); Prabir Kumar Biswas (I. I. T. Kharagpur, India)
4	Dynamic and Adaptive Data Caching Mechanism for Virtualization within Sensor-Cloud	Sudip Misra (Indian Institute of Technology-Kharagpur, India); Subarna Chatterjee (Junior Research Fellow, India)
5	A Microstrip Antenna at UWB Frequencies for Body Wearable Wireless Devices	Karthik Varshini and T Rama Rao (SRM University, India)

(15/12/2014, 4:45pm - 6:35pm, Session2B, Conference Room)

Session 2B — **Cognitive Radio Networks** — **Session Chair: Adrish Banerjee, IIT Kanpur, India**

1	On Lifetime Centric Routing and Power Allocation in BER Constrained Cognitive Radio Ad Hoc Networks	Surajit Basak (Guru Nanak Institute of Technology, Kolkata, India); Tamaghna Acharya (Indian Institute of Engineering Science and Technology Shibpur, India)
2	Opportunistic Interference Alignment in Cognitive Multi-User MIMO Relay Networks	Manish Mandloi (IIT, Indore, India); Vimal Bhatia (Openwave Systems, United Kingdom)
3	Energy Detection Based Cooperative Spectrum Sensing using Fuzzy Conditional Entropy Maximization	Avik Banerjee and Santi Prasad Maity (Indian Institute of Engineering Science and Technology Shibpur, India)
4	Immuno-Neural Network for Spectrum Prediction	Periola A Ayodele (University of Cape Town & Communications Research Group, South Africa); Olabisi Emmanuel Falowo (University of Cape Town, South Africa)
5	Cognitive correlation of source-destination pair in a video conference network using call attributes	Sumit Goswami (DRDO, Ministry of Defence, India); Sudip Misra (IIT, Kharagpur, India); Saurabh Jain (Presto Infosolutions Pvt Limited, India)

(16/12/2014, 9:50am - 11:15am, Session3A, Auditorium)

Session 3A — **Wireless LAN** — **Session Chair: Santi Prasad Maity, IIES&T, Shibpur, India**

1	Gap-free Load Balancing in Wireless LAN Networks using Cell Breathing Technique	Ihan Demirci (Marmara University & TUB TAK, Turkey); Omer Korcak (Marmara University, Turkey)
2	Early Detection of VoIP Network Flows based on Sub-Flow Statistical Characteristics of Flows using Machine Learning Techniques	Tejmani Sinam, Ngasham Nandarani Devi, Pradeep Lamabam and Tilokchan Irengbam (Manipur University, India); Sukumar Nandi (IIT, Guwahati, India)
3	A Scheme for Improving the Performance of Network Coding Technique	Purnendu Pandey and Neetesh Purohit (Indian Institute of Information Technology, India)
4	An improved auto configuration protocol variation by improvising MANET conf	Amit Munjal (Indian Institute of Technology, Kanpur, India); Yatindra N Singh (IIT Kanpur, India)

(16/12/2014, 9:50am - 11:15am, Session3B, Conference Room)

Session 3B — **Network Security** — **Session Chair: Sudip Misra, IIT Kharagpur, India**

1	Block the Blocker: A Blocker-Tag Agnostic ALOHA-Based Tag Reading Protocol in Dense RFID System	Veeramani Mahendran (University of Oklahoma, USA); Chandrika Satyavolu (The Univ. of Oklahoma, USA); Sridhar Radhakrishnan (University of Oklahoma, USA); Venkatesh Sarangan (TCS, India)
2	Securing Intra-communication in 6LoWPAN: A PKI Integrated Scheme	Sumit Goswami (IIT Kharagpur, India); Sudip Misra (IIT Kharagpur, India); Chaynika Taneja (DRDO, Ministry of Defence, India); Anandarup Mukherjee (IIT Kharagpur & IEEE, India)
3	A Quantum Diffie-Hellman Protocol Using Commuting Transformations	Pranav Subramaniam and Abhishek Parakh (University of Nebraska at Omaha, USA)
4	Limits On Detecting Eavesdropper in QKD Protocols	Pranav Subramaniam and Abhishek Parakh (University of Nebraska at Omaha, USA)

(16/12/2014, 3:00pm - 4:00pm, Foyer)

Posters Session — **Session Chair: Swades De, IIT Delhi and Bheemarjuna Reddy, IIT Hyderabad**

1	MobiCoStream: Real-time Collaborative Video Upstream for Mobile Augmented Reality Applications	Narendra N, Pavan Reddy, Kriti Kumar, Ashley Varghese, Prashanth Swamy, Girish Chandra and P. Balamuralidhar (Tata Consultancy Services, India)
2	Circularly Polarized Dual Band Microstrip Antenna for Vehicular Wireless Communication Networks	Ramya R (SRM University India); T Rama Rao (SRM University, India)
3	Enhanced Optical Power Budget in DDO-OFDM-PON and CO-OFDM-PON System Using Frequency Diversity	Pravindra Kumar and Anand Srivastava (IIT Mandi, India)
4	Evaluating Polynomial Regression Based Data Aggregation in Body Area Networks	Andrew Knox, Suryadip Chakraborty and Dharma P Agrawal (University of Cincinnati, USA)

Posters Session

5	A Variable Rate Multi-User CI/GO-OFDMA Scheme over Frequency Selective Channel	Abdul Rauf Khan (IIT Patna, India); Preetam Kumar (IIT, Patna, India); Vijay Mukati (IIT PATNA, India)
6	Cooperative Sensing and Allocation Scheme Using IEEE 802.22-Standard	Satajeet Biswas (Jadavpur University, India); Sourodeep Biswas (Kalyani Govt Engg College, India); Amitava Mukherjee (IBM India Pvt Ltd, Calcutta, India); Mrinal Kanti Naskar (Jadavpur Univ, India)
7	Novel Framework for Data Collection in Wireless Sensor Networks Using Flying Sensors	Prateek Mathur (Aalborg Univ, Denmark); Rasmus Hjorth Nielsen (Cisco Systems, USA); Neeli Rashmi Prasad (Center for TeleInFrastructure (CTIF), Denmark); Ramjee Prasad (Aalborg Univ, Denmark)
8	Novel Energy Model To Analyze The Effect of MAC & Network Parameters on Asynchronous IEEE 802.15.4 Multi-hop Wireless Networks Lifetime	Rajavaraprasad Yerra (IIT Hyderabad & Mhrd, India); Pachamuthu Rajalakshmi (Indian Institute of Technology Hyderabad, India)
9	Multi-layer Energy Savings in Optical Core Networks	Lin Liu, Sara El Alaoui and Byrav Ramamurthy (University of Nebraska-Lincoln, USA)
10	Exploiting Multiple Antenna Cognitive Radio System for Cooperative Spectrum Sharing	Ankush Vashistha (Malviya National Institute of Technology, India); Shubha Sharma (IIIT Delhi, India); Vivek A Bohara (IIIT- Delhi), India)

(16/12/2014, 4:35pm - 6:25pm, Session 4A, Auditorium)

Session 4A	Software Defined Networks	Session Chair: Vinod Sharma, IISc, Bangalore, India
1	Application-Aware Software-Defined EPON Access Network	Divya Chitimalla (University of California Davis, USA); Saigopal Thota (UOC, Davis, USA); Saadet Savas (UOC, Davis, USA); Pulak Chowdhury ((UOC, Davis & Ennetix Inc., USA); Massimo Tornatore (Politecnico di Milano & (UOC, Davis, Italy); Sang Soo Lee, Han Hyub Lee and Soomyung Park (ETRI, Korea); Biswanath Mukherjee (UOC, Davis, USA)
2	Caching Using Software-Defined Networking in LTE Networks	Jose Costa-Requena, Maël Kimmerlin and Jukka M J Manner (Aalto University, Finland)
3	On Multipath Routing Algorithm for Software Defined Networks	Siddharth Kulkarni (IIT, Jodhpur, India); Venkataramana Badarla (IIT, Jodhpur, India)
4	Communication Overhead of an OpenFlow Wireless Mesh Network	Arun Kp and Abhishek Chakraborty (IISST, India); Manoj Bs (IIOSS&T & CIT&IT, India)
5	Cross Stratum Optimization Algorithms for Network and Application Resources	Veena S (PESIT, Bangalore, India); Ram P Rustagi (India & PES Institute of Technology, India); Balasubramanya Murthy (VTU, India); Ravi Bobba (Kirusa Software Pvt. Ltd., India)

(16/12/2014, 4:35pm - 6:25pm, Session 4B, Conference Room)

Session 4B	Broadband Wireless Networks II	Session Chair: Nabanita Das, ISI, Kolkata, India
1	QoS Associated Path Selection in Wireless Mesh Networks	Sandip Chakraborty (IIT, Guwahati, India); Sukumar and (IIT, Guwahati, India)
2	Performance Analysis of Multi-party Conferencing in IMS using Vacation Queues	Garima Mishra (IIT Delhi, India); Subrat Kar (IIT, Delhi, India); Dharmaraja Selvamuthu (IIT Delhi, India)
3	Phantom Cell Realization in LTE and its performance analysis	Hatim Lokhandwala and Vanlin Sathya (IIT, Hyd, India); Bheemarjuna Reddy Tamma (IIT Hyd, India)
4	Optimal Placement of Femto Base Stations in Enterprise Femtocell Networks	Milind Tahalani (IIT, Kharagpur, India); Vanlin Sathya (IIT, Hyderabad, India); Arun Ramamurthy (IIT Hyderabad, India); Suhas Shastry (R. V. C. E, India); Mukesh Giluka (IIT, Hyderabad, India); Bheemarjuna Reddy Tamma (IIT, Hyderabad, India)
5	Detection of Faulty Interswitch Links in 2-D Mesh Network-on-Chips	Biswajit R Bhowmik (IIT Guwahati, India)

(17/12/2014, 9:50am - 11:10am, Session5A, Auditorium)

Session 5A	Transport Networks	Session Chair: Krishna Sivalingam, IIT Madras, India
1	Challenges for 5G Transport Networks	Matteo Fiorani and Paolo Monti (KTH Royal Institute of Technology, Sweden); Björn Skubic (Ericsson AB, Sweden); Jonas Mårtensson (Acreo AB, Sweden); Luca Valcarenghi and Piero Castoldi (Scuola Superiore Sant'Anna, Italy); Lena Wosinska (KTH Royal Institute of Technology, Sweden)
2	Segment Routing based Traffic Engineering for Energy Efficient Backbone Networks	Radu Carpa (ENS de Lyon, France); Olivier Gluck (LIP, Ens Lyon, France); Laurent Lefevre (INRIA, France)
3	Network Adaptability under Resource Crunch	Abhishek Roy, M. Farhan Habib and Biswanath Mukherjee (University of California, Davis, USA)
4	Doing More with Less: Multiple-Link Failure Resiliency Using Shared Mesh Protection	Soumya Roy (Infinera, India); Srivatsan Balasubramanian (Infinera Corporation, India); Sudhindra Kota and Parameshwara Gowda (Infinera, India)

(17/12/2014, 9:50am - 11:15pm, Session5B, Conference Room)

Session 5B	Optical Networks II	Session Chair: Anand Srivastava, IIT Mandi, India
1	Modulation-aware Multipath Routing and Spectrum Allocation in Elastic Optical Networks	Neha Kadu, Sunny Shakya and Xiaojun Cao (Georgia State University, USA)
2	Effect of Pointing Error on Cooperative Free Space Optical Communication Systems Under Different Channel Conditions	Vineeta Dubey, Devi Chadha and Vinod Chandra (IIT, Delhi, India)
3	Transmission Impairments in Long-Reach WDM-PON using RSOA-based ONUs	Sourav Mondal and Swathi Reddy (IIT, Kharagpur, India); Goutam Das (IIT Kharagpur, India); Debasish Datta (IIT, Kharagpur, India)
4	Photonic Integration - Path Towards Energy Efficient Optical Transport Networks	Anuj Malik (Infinera, USA); Thomas Neel (Infinera, USA); Onur Turkcu (Univ. California, Riverside, USA); Steve Hand and Serge Melle (Infinera, USA)

(17/12/2014, 2:50pm - 4:20pm, Session 6A, Auditorium)

Session 6A	Broadband Wireless Networks III	Session Chair: Ömer Korçak, Marmara University, Turkey

1   QoS Provisioning for Multiple Femtocells via Game Theory — SVadingadu Udaya Sankar and Vinod Sharma (Indian Institute of Science, India)

2   Cache-Induced Hybrid CoMP in Wireless Video Streaming Networks — Woojin Kim (SungKyunKwan University, Korea); Hae Sol Lee (SungKyungKwan University, Korea); Dong In Kim (Sungkyunkwan University (SKKU), Korea)

3   A Game Theory-based Distributed Power Control Algorithm for Femtocells — Henry Shyllon and Seshadri Mohan (University of Arkansas at Little Rock, USA)

4   On the TDMA with Imprecise Propagation Delay Information — Priyatosh Mandal (Centre for Development of Telematics, New Delhi, India)

(17/12/2014, 2:50pm - 4:40pm, Session 6B, Conference Room)

Session 6B	Network Applications	Session Chair: Anuj Malik, Infinera, USA

1   Geo-Intelligence based Terrain-aware mobile Backhaul Planning for Rural India — Pankaj Kumar Dalela (C-DOT, India); Saurabh Basu & Sabyasachi Majumdar (Research Engineer, India); Arun Yadav (C-DOT, India); Arpit Singh and Nidhi Nagpal (Rsh. Engr, India); Vipin Tyagi (C-DOT, India)

2   Geo-Intelligence based Carbon Footprint Monitoring and prediction of suitable Renewable Energy Technology system for Mobile Towers — Pankaj Kumar Dalela, Saurabh Basu, Arpit Singh, Sabyasachi Majumdar, Nidhi Nagpal and Vipin Tyagi (C-DOT, India)

3   Integrated Network Coding and Caching Information-Centric Networksin — Abhiram Ravi (Indian Institute of Technology Madras, India); Parmesh Ramanathan (University of Wisconsin at Madison, USA); Krishna M. Sivalingam (Indian Institute of Technology Madras, India)

4   Universal Caching Model and Markov-based Cache Analysis for Information Centric Networks — Bighnaraj Panigrahi (Tata Consultancy Services, India); Samar Shailendra (TCS Innovation Labs, India); Hemant Kumar Rath and Anantha Simha (Tata Consultancy Services, India)

5   PECSNET: The Next Generation Pervasive and Context aware Social Network — Debopam Acharya & Divya Lohani (Shiv Nadar Univ. India); Hyo-Joo Han (Georgia Southern Univ,

Panels (Auditorium)

1. Panel 1, Dec. 15, Monday, 3:00 PM - 4:30 PM : Technology, Policy Challenges & Solutions to enable the Digital India Vision.
   Moderator: Pamela Kumar, HP
   Panelists: Vipin Tyagi (CDOT); Subrat Kar (IIT Delhi); Bipin Kumar (RIL); Krishna Sirohi (i2TB); Amitava Mukherjee (IBM)

2. Panel 2, Dec. 16, Tuesday, 11:50 AM - 1:15 PM: Next Generation Optical Transport and Access Network: Evolution & Challenges
   Moderator: Anuj Malik, Infinera
   Panelists: Prasanjeet (Infinera); Anand Srivastava (IIT Mandi); Vijay Gopalakrishna (Colt); Byrav Ramamurthy (UNL)

3. Panel 3, Dec. 17, Wednesday, 11:30 AM - 1:00 PM: IoT / Cloud Computing: Accelerators for Emerging Economies
   Moderator: Mukesh Taneja, Cisco
   Panelists: Timothy A. Gonsalves (IIT Mandi); Balamurali (TCS); Sudhir Dixit (HP); Shashank Dara (Cisco)

Ph.D. Student Forum (Conference Room)

(16/12/2014, 3:00pm - 4:00pm, Auditorium) Chair: Sandip Chakraborty, IIT Guwahati, India

1. Title: Prediction and Analysis of Cascades on Twitter
   Author: Mona Gupta, IIT Delhi
2. Title: Quantitative Analysis of Internet Traffic for TCP and Hop-by-Hop Congestion Control
   Author: Sneha Kiran Thombre, IIT Guwahati
3. Title: An Intelligent Mobilty Managment for Device to Device (D2D) Communication in 5G
   Author: Pavan Mishra, NIT Raipur, Sanjay Kumar Biswash, San Diego State University
4. Title: Cross Layer QoS Aware Multi Rate Routing Protocol for Ad hoc Network
   Author: Mahadev Gawas, BITS-Pilani Goa

Demos / Exhibits (Foyer)

1. **Demonstration of Body Area Networks with IoT for e-Health monitoring**
   Boopala Krishnan, Bibhuti Pattnaik, Sri Harsha Palla, Kopparthi HarshaTheja, Siva Sankara Sai Sanagapati (Sri Sathya Sai Institute of Higher Learning, India) and Jai Ganesh (SSSIHL, India)
2. **Demonstration of All-optical Switching Using a Biophotonic Material**
   Santosh Balivada, Sri Krishna Chaitanya Kotha, Govardan C (SSSIHL, India); Anilal P (SSSIHL, India); Siva Sankara Sai Sanagapati (SSSIHL, India)

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