2017 International Conference on Networking and Network Applications

(NaNA 2017)

Conference Program

October 16-19, 2017

Soaltee Crowne Plaza, Kathmandu, Nepal

Technical Sponsors

Xidian University, China
Future University Hakodate, Japan
Kathmandu Engineering College (KEC), Nepal
Wakkanai Hokusei Gokuen University,Japan

Conference Schedule

Date	Time	Conference Program
2017-10-16	08:00-18:00	Registration at the hall of the Hotel Soaltee Crowne Plaza Kathmandu
2017-10-17	09:00-09:15	Welcome Speech (Hirendra Man Pradhan)
	09:15-09:30	Opening Remarks (Norio Shiratori)
	09:30-10:15	Keynote Speech 1 (Achille Pattavina)
	10:15-10:30	Coffee break
	10:30-11:15	Keynote Speech 2 (Pin-Han Ho)
	11:15-12:00	Keynote Speech 3 (Zhou-guo Chen)
	12:00-13:20	Lunch
	13:20-15:50	Session A1
	15:50-16:10	Coffee break
	16:10-17:55	Session A2
	18:00-20:00	Gala
2017-10-18	08:30-09:45	Session A3
	09:45-10:00	Coffee break
	10:00-11:50	Session A4
	12:00-13:20	Lunch
	13:20-14:00	Session B
	14:00-15:25	Session C
	15:25-15:40	Coffee break
	15:40-17:55	Session D1
2017-10-19	08:30-09:50	Session D2
	09:50-10:05	Coffee break
	10:05-10:35	Session D3
	10:40-11:10	Closing Remarks
	11:10-11:50	Free discussion
	14:00-16:00	TPC Meeting

Malhar Hall: Opening/Keynote Speech/Gala, Sessions A, B, C, D

Greeting Message from General Conference Chairs

Welcome to 2017 International Conference on Networking and Network Applications (NaNA2017)! Welcome to Kathmandu, Nepal! We believe that the solid conference program and the amazing city of Kathmandu will offer you irresistible attraction.

The NaNA2017 is technically sponsored by Future University Hakodate, Japan, Xidian University, China, Kathmandu Engineering College, Nepal, and Wakkanai Hokusei Gakuen University, Japan. At this very moment, we would like to thank the program committees and the organizing staffs for their hard work. We would like to deliver our appreciation to the keynote speakers for their great contributions to this conference.

This conference aims to gather researchers from different areas and disciplines to present results and participate in discussions under the common themes of Wireless Networks, Wired Networks and Data Center (DC) Networks, Network Management, Monitoring, and Automation, and Network Applications. It is expected that the interactions provided by the conference will facilitate a better understanding of the diversity of the different approaches as well as of their similarities. In addition, it will open the way for applying approaches that have been successful in one area to problem solving in other different areas and applications.

We wish you will enjoy the successful deliberations, stimulating discussions and new friendships the conference can offer. We look forward to seeing all of you in Kathmandu, Nepal.

NaNA 2017 General Co-Chairs

Hirendra Man Pradhan, Kathmandu Engineering College, Nepal
Achille Pattavina, Politecnico di Milano, Italy
Yuefeng Ji, Beijing University of Posts and Telecommunications, China

Oct. 16, 2017

Committees

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Track Co-Chairs:
Track 1: Wireless Networks
Gabriel-Miro Muntean, Dublin City University, Ireland.
Changqiao Xu, Beijing University of Posts and Telecommunications, China, IEEE Senior Member
Chia-Ho Ou, National Pingtung University, Taiwan, IEEE Member
Chi Zhang, University of Science and Technology of China, China, IEEE Member

Track 2: Optical Networks and Data Center (DC) Networks
János Tapolcai, Budapest University of Technology and Economics, Hungary
Bin Wu, Tianjin University, China
Aleksandra Smiljanic, Belgrade University, Serbia
Massimo Tornatore, Politecnico di Milano, Italy, IEEE Senior Member

Track 3: Network Management, Monitoring and Automation
Dinesh Sharma, Kathmandu Engineering College, Nepal
Chau-Yun Hsu, Tatung University, Taiwan
Weidong Yang, Henan University of Technology, China
Dong Zheng, Xian University of Posts & Telecommunications, China

Track 4: Network Applications
Xiaojiang Chen, Northwest University, China
Masaru Fukushi, Yamaguchi University, Japan, IEEE Computer Society, Member
Anyi Chen, Tatung Research Institute, Taiwan
Ruonan Zhang, Northwestern Polytechnical University, China, IEEE Member

Steering Chairs:
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Yulong Shen, Xidian University, China

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Keynote Speech 1:

RAN centralization in 5G Metro/Aggregation Networks-Challenges and Trade-offs

Prof. Achille Pattavina
Politecnico di Milano, Italy

Abstract: 5G mobile networks are expected to meet a set of extremely‐challenging performance requirements, in terms of enhanced throughput and QoS, increased coverage, reduced latency and power consumption. To meet such requirements, a promising solution for future 5G networks is the recently proposed Centralized‐Radio Access Network (C‐RAN), supported by optical aggregation based on Wavelength Division Multiplexing. C‐RAN is expected to provide significant CapEx/OpEx savings, deriving from the consolidation of processing facilities among different Digital Units (DU). However, the adoption of C‐RAN requires transporting large amount of high and constant‐bit‐rate traffic between DUs and Radio Units (RU), called the fronthaul traffic. Therefore, in view of the massive small cells deployment and traffic increase envisioned for 5G, fronthaul transport is expected to face serious scalability issues. Thus, alternative RAN splits, referred to as xhaul or midhaul solutions, are now under analysis to reduce the required network capacity. C‐RAN also enables effective support of advanced cell coordination techniques, so that further trade‐offs arise between factors characterizing the cell clusters. We examine these challenges and propose technical solutions to best match the different parameters trade‐offs arising in 5G metro/aggregation networks.

CV: Achille Pattavina received the Dr. Eng. degree in Electronic Engineering from University of Rome (Italy) in 1977. He was with the same University until 1991, when he moved to "Politecnico di Milano", Milano (Italy), where he is Full Professor since 1995. He has been author/coauthor of more than 300 papers in the area of communications systems and networks and of two books: Switching Theory, Architectures and Performance in Broadband ATM Networks (New York: Wiley, 1998), Communication Network: Networking and Internet (McGraw-Hill, 2nd ed., 2007, in Italian). He has been coordinator of national and international research activities, including European Union funded projects. He has been Editor for Switching Architecture Performance of the IEEE Transactions on Communications from 1994 to 2011 and Editor-in-Chief of the Wiley European Transactions on Telecommunications from 2001 to 2010. His current research interests are in the areas of data center and cloud computing, software defined networking, optical networks, switching theory, broadband convergent access/metro networks.

Keynote Speech 2:

Coded Video Multicast over Mobile Systems

Prof. Pin-Han Ho

University of Waterloo , Waterloo·Department of Electrical & Computer Engineering

Abstract: The talk is on multicast of video content in the modern mobile communication systems. The topics include the multicast techniques developed for scalable and efficient delivery of successively refined information to multiple recipients under fluctuating wireless channels. It also covers the key issues and state-of-the-art progress of such an application and discusses its performance behaviors.

CV: Pin-Han Ho received his B.Sc. and M.Sc. degree from the Electrical Engineering department in National Taiwan University in 1993 and 1995, respectively, and Ph.D. degree from Queens University at Kingston at 2002. He is now an associate professor in the department of Electrical and Computer Engineering, University of Waterloo, Canada. Professor Pin-Han Ho is the author/ co-author of more than 150 refereed technical papers, several book chapters, and the co-author of a book on optical networking and survivability. His current research interests cover a wide range of topics in broadband wired and wireless communication networks,including survivable network design, wireless Metropolitan Area Networks such as IEEE 802.16 networks, Fiber-Wireless (FIWI) network integration, and network security. He is the recipient of Distinguished Research Excellent Award in the ECE department of U of Waterloo, Early Researcher Award (Premier Research Excellence Award) in 2005, the Best Paper Award in SPECTS'02, ICC'05 Optical Networking Symposium, and ICC'07 Security and Wireless Communications symposium, and the Outstanding Paper Award in HPSR'02.

Keynote Speech 3:

Network threat intelligence based on Dark web

Dr. Zhou-guo Chen

Technical Director, China Electronics Technology Cyber Security Co., LTD

Abstract: The dark web is the World Wide Web content that exists on dark nets, overlay networks which use the Internet but require specific software, configurations or authorization to access. Due to some strong confidentiality, anonymity and other security characteristics, dark web have been widely used in recent years. More and more network users and service providers choose dark web to protect their privacy. However, dark web also becomes a safe haven for criminals who engaged in illegal transactions and network attacks，and poses a threat to cyberspace security.

At present, many countries and institutions around the world focus on dark web, especially in terms of the illegal trading and information intelligence. The information intelligence in this respect can serve an important source of perceiving network security situation and threat warning. In order to explore and acquire the information resources from dark web, it is necessary to study the technical problems such as network monitoring and information censorship in dark web. It can realize the threat intelligence perception through finding and identifying information, detecting hidden service as well as information extraction and analysis in dark web.

CV: Zhou-guo Chen was born in 1980. He received a M.S. degree in signal and information processing at University of Electronic Science and Technology of China (UESTC) in 2006. As a technical director with China Electronics Technology Cyber Security Co., LTD, he led several research teams to participate in several state-level major information security projects under the National Development and Reform Commission, the Ministry of Science and Technology, the Ministry of Public Security. He has won Second-Class National Scientific and Technological Progress Award, published more than 50 academic papers and owned more than 10 patents. His research interests include network security, big data and network forensics.

Opening Remarks and Keynotes

(2017-10-17, Malhar Hall)

2017-10-17 9:00-12:00			
Time	**Conference Program**	**Spokesman**	**Chairman**
09:00-09:15	Welcome Speech (Hirendra Man Pradhan)	09:00-09:15	
09:15-09:30	Opening Remarks (Norio Shiratori)	09:15-09:30	
09:30-10:15	Keynote Speech 1 (Achille Pattavina)	09:30-10:15	Hirendra Man Pradhan
10:15-10:30	Coffee break	10:15-10:30	
10:30-11:15	Keynote Speech 2 (Pin-Han Ho)	10:30-11:15	Xiaohong Jaing
11:15-12:00	Keynote Speech 3 (Zhou-guo Chen)	11:15-12:00	Yuefeng Ji

Track 1: Wireless Networks

		2017-10-17 13:20-17:55 Malhar Hall		
		Session A1 Chair: Jianfeng Ma		
ID	**Time**	**Title**	**Author**	**Type**
3	13:20-13:35	Efficient (k,n) Secret Sharing Scheme Secure Against k-2 Cheaters	Lei Zhu, Yanxiao Liu, Yichuan Wang, Wenjiang Ji, Xinhong Hei, Quanzhu Yao and Xiaoyan Zhu	Regular
8	13:35-13:50	PVad: Privacy-Preserving Verification for Secure Routing in Ad Hoc Networks	Teng Li, Jianfeng Ma, Cong Sun, Dawei Wei and Ning Xi	Regular
10	13:50-14:05	PADA: Privacy-Aware Data Aggregation with Efficient Communication for Power Injection in 5G Smart Grid Slice	Yinghui Zhang, Dong Zheng, Qinglan Zhao, Chengzhe Lai and Fang Ren	Regular
17	14:05-14:20	A Novel Recommendation Model Based on Trust Relations and Item Ratings in Social Networks	Haokai Song, Qingqi Pei, Yang Xiao, Zi Li and Yong Wang	Regular
25	14:20-14:35	Preserving friendly-correlation in uncertain graphs using differential privacy	Jing Hu, Wuchao Shi, Hai Liu, Jun Yan, Yuan Tian and Zhenqiang Wu	Regular
26	14:35-14:50	Physical Layer Authentication and Identification in Wireless Network via the Locations of Surrounding Noise Sources	Yongchao Dang, Yin Chen, Huihui Wu, Yulong Shen and Xiaohong Jiang	Regular
27	14:50-15:05	Efficient ONU Migration for Fixed and Mobile Convergence Access Network in High-speed Rail Area	Rentao Gu, Shizong Zhang, Zidi Yan and Yuefeng Ji	Regular
29	15:05-15:20	Limits of Covert Communication on Two-Hop AWGN Channels	Huihui Wu, Xuening Liao, Yongchao Dang, Yulong Shen and Xiaohong Jiang	Regular
35	15:20-15:35	Secure Transmission With Limited Feedback in MISOME Wiretap Channels	Jiao Quan, Xiaochen Li, Yeqiu Xiao, Yulong Shen and Fenghua Li	Regular
36	15:35-15:50	An Improved Amorphous Algorithm in Wireless Sensor Network Based On Approximate Equilateral Triangle Beacon Selection	Shikai Shen, Kaiguo Qian, Bin Yang, Yumei She, Wu Wang and Yujian Wang	Regular
	15:50-16:10	Coffee Break		
		Session A2 Chair: Di Lu		
80	16:10-16:25	Techno-Economic Evaluation of CDN Deployments in Metropolitan Area Networks	Omran Ayoub, Francesco Musumeci, Massimo Tornatore and Achille Pattavina	Regular

42	16:25-16:40	BF-PDT: A New Name Lookup Mechanism in Content-Centric Networking	Hao Hao, Changqiao Xu, Shujie Yang, Jianfeng Guan, Yang Liu and Lujie Zhong	Regular
44	16:40-16:55	A Novel Scheme for Phase Noise Compensation in CO-OFDM Long-Reach Passive Optical Networks	Mohamed Ben Zeglam, Pin Han Ho, Limei Peng and Shuiping Jie	Regular
48	16:55-17:10	Resource Allocation for Throughput Optimization in Buffer-Limited Mobile Ad Hoc Networks	Jia Liu, Yang Xu, Ruo Ando, Hiroki Takakura and Yifei Xu	Regular
59	17:10-17:25	End-to-end Congestion Relief Routing Protocol for Ad Hoc Networks	Yang Xu, Jia Liu, Ruo Ando and Norio Shiratori	Regular
61	17:25-17:40	Secure and Efficient V2V Communications for Hetergeneous Vehicle Ad Hoc Networks	Yanping Li, Yanjiao Qi, Laifeng Lu	Regular
62	17:40-17:55	Multicast Delivery Delay in General Two-Hop Relay MANETs	Bin Yang, Zhenqiang Wu, Yulong Shen and Yuanyuan Fan	Regular

2017-10-18   8:30-11:50   Malhar Hall

Session A3   Chair: Yue Zhao

63	08:30-08:45	An Empirical Study of Unsolicited Content Injection into a Website	Fu Jianming, Xie Mengfei, Wang Yingjun and Mei Xufen	Regular
65	08:45-09:00	Hierarchical CSI-Fingerprints Classification for Passive Multi-Person Localization	Runcong Ma, Gwo-Jong Yu, Guilin Chen, Shenghui Zhao and Bin Yang	Regular
69	09:00-09:15	A flexible Frame-oriented Host-FPGA Communication Framework for Software-defined Wireless Network	Jun liu, Zhiwei Li, Boyan Ding, Haoyang Wu and Tao Wang	Regular
73	09:15-09:30	Genomic Privacy Preserving Framework for High-Order SNPs Linkage Disequilibrium on Correlated Sequences	Hai Liu, Zhenqiang Wu, Changgen Peng and Xiujuan Lei	Regular
85	09:30-09:45	Spectral Efficiency, Diversity Gain and Multiplexing Capacity Analysis for Massive MIMO, 5G Communications System	khem Narayan poudel and shankar Gangaju	Regular
	09:45-10:00	Coffee Break		

Session A4   Chair: Qingqi Pei

2	10:00-10:10	Development of a Hybrid FSO/RF System During Link Misalignment	Kappala Vinod Kiran, Shikha Rathore, Ashok Kumar Turuk and Santos Kumar Das	Short
13	10:10-10:20	Application Oriented Sensor Database System	Gsr Satyanarayana, Debarka	Short

			Chakraborty and Santos Kumar Das	
21	10:20-10:30	A Privacy Measurement Method Using Network Entropy	Wuchao Shi, Jing Hu, Jun Yan, Zhenqiang Wu and Laifeng Lu	Short
40	10:30-10:40	Reliability Analysis of Molecular Communication Based on Drift Diffusion	Xinlei Wang, Zhenqiang Wu, Jiawang Chen, Xuanwen Hao and Bo Liu	Short
49	10:40-10:50	A Secure Authentication Method of Intelligent Terminals Based on Jensen-Shannon Divergence	Shuangyuan Qiao, Yong Zeng, Lingjie Zhou, Zhihong Liu and Jianfeng Ma	Short
60	10:50-11:00	Delay and Capacity in Three-Dimensional Mobile Ad Hoc Networks with Packet Replication	Wu Wang, Bin Yang, Shikai Shen, Yujian Wang and Gang Fang	Short
66	11:00-11:10	TSMWD:A High-speed Malicious Web Page Detection System Based on Two-Step Classifiers	Zhengqi Wang, Xiaobing Feng ,Yukun Niu , Chi Zhang and Jue Su	Short
70	11:10-11:20	An Enhanced Soft Combination Algorithm Based on CUSUM for Cooperative Spectrum Sensing	Jingcheng Miao and Xiao Ou Song	Short
75	11:20-11:30	LTE NETWORK : COVERAGE AND CAPACITY PLANNING 4G cellular Network planning around Banepa	Sujeet Kumar Jha, Rupa Rokaya, Amit Bhagat, Ahmed Raja Khan and Laxman Aryal	Short
76	11:30-11:40	WIRELESS MONITORING OF PHOTOVOLTAIC PANELS	Rahul Kumar Sah, Sushant Ghising, Saurab Dulal ,Manish Karn and Suresh Sah	Short
79	11:40-11:50	Uncertain Graph method based on Triadic Closure Improving Privacy Preserving in Social Network	Jun Yan, Lin Zhang,Wuchao Shi, Jing Hu and Zhenqiang Wu	Short

Track 2: Wired Networks and Data Center (DC) Networks

	2017-10-18 13:20-14:00 Malhar Hall			
	Session B Chair: Dingyi Fang			
ID	**Time**	**Title**	**Author**	**Type**
5	13:20-13:35	An 802.11 MAC Optimization Mechanism Based on Throughput Proportional Fairness In Multi-rate WLAN	Mu Yan, Su Wu, Gang Feng and Shuang Qin	Regular
51	13:35-13:50	MSIPS:Multi-tiered Security IPs Architecture for Secure SoC Design	Huang Zhao and Quan Wang	Regular
54	13:50-14:00	A Security Routing Protocol for Internet of Things Based on RPL	Guojun Ma, Xing Li, Qingqi Pei and Zi Li	Short

Track 3: Network Management, Monitoring, and Automation

2017-10-18 14:00-15:25 Malhar Hall				
Session C Chair: Bishnu Prasad Gautam				

ID	Time	Title	Author	Type
1	14:00-14:15	A Transmission Mechanism of the Backup for Disaster Recovery in DCNs	Zhan Shi, Chenyue Wang, Qili Wen, Wei Su, Huachun Zhou and Shuai Gao	Regular
11	14:15-14:30	Backup Path Provisioning for Service Protection Against Disaster Failures in Telecom Networks	Xiaowu Du and Lisheng Ma	Regular
16	14:30-14:45	2-OptACO: An Improvement of Ant Colony Optimization for UAV Path in Disaster Rescue	Xiang Ji, Qingyi Hua, Chunyu Li, Junsong Tang, Anwen Wang, Xiaojiang Chen and Dingyi Fang	Regular
71	14:45-15:00	Reputation Propagation for Web Service Composition: A Shapley Value Approach	Tao Zhang, Yongzhi Wang, Guangxia Li, Jingjing Guo and Qi Li	Regular
77	15:00-15:15	A CCA-secure verifiable mix-net	Longhai Li, Chengqiang Huang,and Shaofeng Fu	Regular
56	15:15-15:25	Performance Evaluation and Optimization for Android-based Web Server	Yajing Zhao, Jing Wang, Lei Zhang, Jingyu Wang and Qi Qi	Short

Track 4: Network Applications

	2017-10-18 15:40-17:55 Malhar Hall			

	Session D1 Chair: Jianming Zhu			
ID	**Time**	**Title**	**Author**	**Type**
6	15:40-15:55	Joint Resource Scheduling for Mobile Multimedia Services in Hierarchical Cloud Networks	Mengjie Liu, Yatong Wang, Jiang Zhou, Gang Feng and Shuang Qin	Regular
9	15:55-16:10	GA-based Load Balancing Algorithm for Distributed Timing Task	Yiming Guo, Yulong Wang, Lei Zhang, Jingyu Wang and Qi Qi	Regular
14	16:10-16:25	The storage of virtual machine disk image in cloud computing: A survey	Yuyan Zhao, Haibao Chen, Shenghui Zhao and Yihong Wang	Regular
18	16:25-16:40	A Novel Approach for Mining Road Information from Low Precision GPS Data	Siqie Zhang, Changle Li and Xun Zhou	Regular
19	16:40-16:55	GT-SGD: a Novel Gradient Synchronization Algorithm in Training Distributed Recurrent Neural Network Language Models	Xiaoci Zhang, Naijie Gu, Robail Yasrab and Hong Ye	Regular
37	16:55-17:10	A Low-Storage-TTP and Abuse-Free Contract Signing Protocol Based on the Schnorr Signature	You Zhai, Guangquan Xu and Yao Zhang	Regular
38	17:10-17:25	Distributed Information Flow Verification on Encrypted Data For Service Composition in Multiple Clouds	Ning Xi, Cong Sun, Di Lu and Yulong Shen	Regular
78	17:25-17:40	D2D Communication for Disaster Recovery in Cellular Networks	Gao Hui, Yulong Shen and Bin Yang	Regular
86	17:40-17:55	Big Data Application for Nepalese Government A Proposed Solution for Labor Migrant	Pratima Pradhan and Subarna Shakya	Regular

	2017-10-19 08:30-10:35 Malhar Hall			

	Session D2 Chair: Jia Liu			
68	08:30-08:45	CryptSQLite: Protecting Data Confidentiality of SQLite with Intel SGX	Yongzhi Wang, Lingtong Liu, Cuicui Su, Jiawen Ma, Lei Wang, Yibo Yang, Yulong Shen , Guangxia Li, Tao Zhang and Xuewen Dong	Regular
74	08:45-09:00	Trust-Aware Data Uploading Based on Device-to-Device Communications	Xiaolan Liu, Bin Yang and Xiaohong Jiang	Regular
39	09:00-09:15	A Novel Personalized Differential Privacy Mechanism for Trajectory Data Publication	Feng Tian, Shuangyue Zhang, Laifeng Lu, Hai Liu and	Regular

			Xiaolin Gui	
84	09:15-09:30	A Survey of Multipath Transport Mechanism in Software Defined Network	Kai Gao, Changqiao Xu, Jianfeng Guan and Yang Liu	Regular
52	09:30-09:40	Provoking the Adversary by Dual Detection Techniques: A Game Theoretical Framework	Ahmed Salem, Xuening Liao, Yulong Shen and Xiang Lu	Short
53	09:40-9:50	Cost Effective Accommodation Planning in a Trip by Using Accomodation Advisor Query (AA-Query) in STPF	Bishnu Prasad Gautam, Amit Batajoo and Hiroyasu Asami	Short
	9:50-10:05	Coffee Break		
Session D3 Chair: Dinesh Sharma				
67	10:05-10:15	A Survey on Big Data in Financial Sector	Anku Jaiswal and Purushottam Bagale	Short
72	10:15-10:25	A Novel Multifactor Two-Server Authentication Scheme under the Mobile Cloud Computing	Ziyi Han, Li Yang and Qiang Liu	Short
82	10:25-10:35	Research on Power Allocation of Network Coding in Vehicle Networking	Jingjing Hu, Yancheng Ji, Junma Li and Danfeng Dong	Short

Contact Us

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