

MILCOM 2014

TRACK 3 – NETWORKING: ARCHITECTURES, MANAGEMENT, PROTOCOLS AND PERFORMANCE – Monday 6 October 2014

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
NET-1	Distributed Computing and Clustering	9:00 AM	Mobility-Induced Service Migration in Mobile Micro-Clouds	Shiqiang Wang; Rahul Urugaonkar; Ting He; Murtaza Zafer; Kevin S Chan; Kin K. Leung	
		9:25 AM	Offload Destination Selection to Enable Distributed Computation on Battlefields	David Doria; Tamim Sookoor; David Bruno; Dale Shires; Brian Swenson; Lori Pollock	
		9:50 AM	An Efficient Method of Estimating the Ratio of Clock Frequency	Jun Liu	
		10:35 AM	Prediction and Planning of Distributed Task Management Using Network Centrality	Joseph P. Macker; Ian Taylor	
		11:00 AM	An Overlapping Community Detection Algorithm based on Link Clustering in Complex Networks	Chenglong He; Hong Ma; Shize Kang; Ruifei Cui	
NET-2	Multiple-access Control	9:00 AM	Multi-hop Geographic Transmission Scheme for the Uplink in Mesh Networks	Byonghyok Choi; John M. Shea	
		9:25 AM	A Novel Collision Avoidance Algorithm for IEEE 802.11 Wireless LANs	Hongwei Cheng; Xiao Yan; Hao Lian; Lina Weng; Qixun Zhang; Zhiyong Feng	
		9:50 AM	PHY and MAC Design for Distributed Tx-Rx beamforming in Mobile Ad Hoc Networks	Yi Jiang; Haining Wang; Babak Daneshrad; Bruce A Fette	
		10:35 AM	Enhanced MAC Protocol with New Packing for Imagery Transmission in Link-16	Hoki Baek; Sangsoon Ko; Jae Sung Lim; Ilhyuk Oh	
		11:00 AM	Link-Layer Throughput of FHSS with Interference Mitigation: Analysis and Cross Layer Design	Oluwatosin Adeladan; John M. Shea	
NET-3	Modeling and Optimization	9:00 AM	Improving Spectral Efficiency of MIMO Ad Hoc Network via Greedy MCS Packing	Haining Wang; Yi Jiang; Babak Daneshrad; Bruce A Fette	
		9:25 AM	Root Cause Analysis of Failures in Interdependent Power-Communication Networks	Arun Das; Joydeep Banerjee; Arunabha Sen	
		9:50 AM	Analysis of Throughput-Constrained Tactical Wireless Networks	Paul Nicholas; Jeffrey Tkacheff; Chana Kuhns	
		10:35 AM	Practical Capacity Benchmarking for Wireless Networks	Jun Sun; Aradhana Narula-Tam; Gregory Kuperman; Keith D. Gremban	
		11:00 AM	Link Duration for Infrastructure Aided Hybrid Vehicular Ad Hoc Networks in Highway Scenarios	Miao Hu; Zhangdui Zhong; Ruifeng Chen; Minming Ni; Hao Wu; Chih-Yung Chang	
NET-4	Cognitive Radio and Software-Defined Networking	2:00 PM	Secondary User Data Capturing for Cognitive Radio Network Forensics under Capturing Uncertainty	Jing Xu; Qingsi Wang; Rong Jin; Kai Zeng; Mingyan Liu	
		2:25 PM	Distributed SDN for Mission-critical Networks	Mathieu Bouet; Kevin Phemius; Jeremie Leguay	
		2:50 PM	Power Control in Full Duplex Underlay Cognitive Radio Networks: A Control Theoretic Approach	Ningkai Tang; Shiwen Mao; Sastry Kompella	
		3:35 PM	Inducing Cooperation for Optimal Coexistence in Cognitive Radio Networks: A Game Theoretic Approach	Muhammad Faisal Amjad; Mainak Chatterjee; Cliff Zou	
NET-5	Systems and Testbeds	2:00 PM	Adapting NORM Unicast Transport for Loss Tolerant and ECN Environments	Jeffery W Weston; Joseph P. Macker; Brian Adamson	
		2:25 PM	System Design and Testbed Implementation of Adaptive Coding Optimization in Lossy Networks	Yi Shi; Yalin E Sagduyu; Junshan Zhang; Jason Hongjun Li	
		2:50 PM	Application Layer Protocols for Disruption Tolerant Remote Sensor SATCOM Links	John M Gormally; Ronald Richards	
		3:35 PM	Coordinating UAVs in Dynamic Environments by Network-Aware Mission Planning	Marcello Balduccini; Duc Nguyen; William Regli	
		4:00 PM	Socio-Technological Communication Testbed for Mobile Social Networks	Zhuo Lu; Yalin E Sagduyu; Yi Shi	
4:25 PM	Global Environment for Network Innovations (GENI) Deployment at US Army Research Laboratory	Vinod Mishra; Venkat Dasari			
NET-6	Admission Control	2:00 PM	An Effective Bandwidth based Admission Control for Multimedia Service in WLAN	Hyun Jin Lee; Jae-Hyun Kim	
		2:25 PM	UMTS Load Control with Access Class Barring	Steven Gordon; David Garbin; Denise Masi; Patrick McGregor	
		2:50 PM	Admission Control of Video Sessions Over Ad hoc Networks Using Neural Classifiers	Dimitris El Vassis; Argyro Kampouraki; Petros Belsis; Christos Skourlas	
NET-7	Content-based Networking	3:35 PM	DT-ICAN: A Disruption-tolerant Information-Centric Ad-Hoc Network	Yu-Ting Yu; Joshua Joy; Ruolin Fan; You Lu; Mario Gerla; M. Y. Sanadidi	
		4:00 PM	Adaptive Interest Modeling Improves Content Services at the Network Edge	Hua Li; Ralph Costantini; David Anhalt; Rafael Alonso; Mark-Oliver Stehr; Carolyn Talcott; Minyoung Kim; Timothy McCarthy; Samuel Wood	
		4:25 PM	Efficient and Expressive Access Control Architecture for Content-based Networks	Joud Khoury; Samuel C. Nelson; Armando L. Caro; Vikas Kawadia; Dorene Ryder; Timothy Strayer	

TRACK 3 – NETWORKING: ARCHITECTURES, MANAGEMENT, PROTOCOLS AND PERFORMANCE – Tuesday 7 October 2014

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
NET-8	Sensor Networks 1	9:00 AM	Adaptive Reliability-Based Splitting Algorithms with Collision Inference for Sequential Detection	Seksan Laitrakun; Edward Coyle	
		9:25 AM	Collision-Aware Decision Fusion in Distributed Detection Using Reliability-Splitting Algorithms	Seksan Laitrakun; Edward Coyle	
		9:50 AM	Light-Weight Forwarding Protocols in Energy Harvesting Wireless Sensor Networks	Cong Pu; Tejaswi Gade; Sunho Lim; Manki Min; Wei Wang	
		10:35 AM	On the Value of Collaboration in Non-Line-of-Sight Location Estimation	Javier Schloemann; Michael Buehrer	
		11:00 AM	A Retasking Framework For Wireless Sensor Networks	Michael Ruffing; Yangyang He; Mat Kelly; Jason Hallstrom; Stephan Olariu; Michele C. Weigle	
NET-9	Routing 1	9:00 AM	Optimal Caching and Routing in Hybrid Networks	Mostafa Dehghan; Anand Seetharam; Ting He; Theodoros Salonidis; Jim Kurose; Don Towsley	
		9:25 AM	Performance Analysis of Geographic Routing Protocols in Ad Hoc Networks	Don Torrieri; Salvatore Talarico; Matthew Valenti	
		9:50 AM	An efficient protocol for geographically addressed streaming	Robert J Hall	
		10:35 AM	The Challenge of Directional Networking	Tyler Ulinskas; Timothy Hughes; Terry Lewis	
		11:00 AM	Improving Routing Path Stability in Mobile Ad hoc Networks that use a CDS Control Plane	Joseph P. Macker; David J Claypool; Nathan Hughes, II	

TRACK 3 – NETWORKING: ARCHITECTURES, MANAGEMENT, PROTOCOLS AND PERFORMANCE – Tuesday 7 October 2014 – (Continued) –

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
NET-10	Sensor Networks 2	2:00 PM	AQ-DBPSK/DS-CDMA Based Energy-Efficient Scheme for 3D Clustered WCSNs With Coverage Rate Constraint	Jingqing Wang; Xi Zhang	
		2:25 PM	The Impact of Near-Ground Path Loss Modeling on Wireless Sensor Network Lifetime	Huseyin Ugur Yildiz; Sinan Kurt; Bulent Tavli	
		2:50 PM	Strategies for Sensor Data Aggregation in Support of Emergency Response	Xianping Wang; Aaron Walden; Michele C. Weigle; Stephan Olariu	
		3:35 PM	Energy-balanced Quorum-based Sink Location Service for Long-lived Wireless Sensor Networks	Euisin Lee; Jeongcheol Lee; Soochang Park; Sang-Ha Kim; Mario Gerla	
4:00 PM	Noise Mitigation for Multiple Targets Tracking in Acoustic Wireless Sensor Networks	Youngwon Kim An; ChangHyuk An; Seong-Moo Yoo; B. Earl Wells			
NET-11	Routing 2	2:00 PM	Inter-Cluster Multi-hop Routing in Wireless Sensor Networks employing Compressive Sensing	Minh T Nguyen; Keith A Teague; Nazanin Rahnavard	
		2:25 PM	A Load-Based Approach for Selecting the Backbone Terminals for a Hierarchical Ad Hoc Network	Raihan Hazarika; Harlan B. Russell	
		2:50 PM	Multi-Metric Energy Efficient Routing in Mobile Ad-Hoc Networks	Evipidis Paraskevas; Kyriakos Manousakis; Subir Das; John S. Baras	
		3:35 PM	Interconnecting Heterogeneous MANET Networks at the Tactical Edge	Joy Na Wang; Aradhana Narula-Tam	
		4:00 PM	Towards Interoperability of Adaptive Social-Aware Routing at the Tactical Edge	Wei Gao; Mitesh Patel	
4:25 PM	ADNS IPv6 Transition Architecture and Analysis	John Wu; Steven Schneider; Ranga Ramanujan; Matthew Rambo			

TRACK 3 – NETWORKING: ARCHITECTURES, MANAGEMENT, PROTOCOLS AND PERFORMANCE – Wednesday 8 October 2014

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
NET-12	Network Defense and Security	9:00 AM	CR-Honeynet: A learning & decoy based Sustenance Mechanism Against Jamming Attack in CRN	Suman Bhunia; Shamik Sengupta; Felisa V?azquez-Abad	
		9:25 AM	Refining Traffic Information for Analysis using Evidence Theory	Bing Li; Dijiang Huang; Zhijie Wang	
		9:50 AM	Detection and Mitigation of Uplink Control Channel Jamming in LTE	Marc Lichtman; Thaddeus Czauski; Sean Ha; Paul David; Jeffrey Reed	
		10:35 AM	Secure Reliable Group Communication for Tactical Networks	Tamer Refaei; Jeffrey Bush	
		11:00 AM	Communications Architecture for National Security and Public Safety	Bharat Doshi	
NET-13	Multicast and Broadcast Communications	9:00 AM	Maximizing Multicast Throughput in a Single-Hop Multi-Channel Wireless Network	David R Wasserman; Douglas Hulbert	
		9:25 AM	Robust Broadcasting in Tactical Networks using Network Coding	Thomas Kunz; Li Li	
		9:50 AM	Methods for Improving Fault Tolerance of Simplified Multicast Forwarding with CDS in MANETs	Pavel Nekrasov; Denis Fakhriev	
		10:35 AM	Opportunistic Situational Awareness Dissemination at the Tactical Edge	David Brown; Mazda Salmanian; Ming Li	