

MILCOM 2014

TRACK 4 – SYSTEM PERSPECTIVES – Monday 6 October 2014

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
SP-1A	Communications-on-the-Move Session 1	9:00 AM	Custom Fabricated Aviation Grade Fiber Optic Patchcords for Unmanned Aircraft	William Wright; James Barry	Richard Wexler
		9:25 AM	Path Finding with Variable Speed and Turning Radius	Brian Rapp; Song Park; Dale Shires	
		9:50 AM	Link Results for upper Ka-band data link over sea water at low look angles	Michael A. Rupar; Blerita Bajramaj	
SP-1B	Communications-on-the-Move Session 2	10:35 AM	Measured Antenna Pointing Errors for Frequency Coordination of SATCOM on-the-Move Terminals	Dirk Ogermann; Robert T. Schwarz; Andreas Knopp; Mostafa Alazab; Gregor Siegert; Wolfgang Felber	Richard Wexler
		11:00 AM	Criteria to Limit Interference Resulting from Antenna Pointing Errors	Vijitha Weerackody	
		11:25 AM	Evolving The Tactical Edge – Delivering Unified Communications and Mobile Enterprise Connectivity	Allen Elkins, II; Michael Lundberg; Gloria Witherspoon; Ken Quock	
SP-2A	Test Beds, Experiments, Exercises and Demonstrations Session 1	9:00 AM	VHF Narrowband Relay for LOS extension	Aaron E Cohen; Edward Kennedy; Michael A. Rupar	Steven Boyd
		9:25 AM	Electromagnetic Battle Manager Verification Case Study	Bryan May; James S Skinner; Manu Thawani	
		9:50 AM	SAFE (Smart Access Frequency Exploitation) Radio Field Experiment Results	Mark McHenry; Jeong-O Jeong; Karl Steadman	
SP-2B	Test Beds, Experiments, Exercises and Demonstrations Session 2	10:35 AM	Testbeds for IT systems in tactical environments	Norman Jansen; Marc Spielmann; Daniel Krämer	Steven Boyd
		11:00 AM	Validation Methodology for a Digital Wireless Channel Emulator	Anthony Buscemi	
SP-2C	Test Beds, Experiments, Exercises and Demonstrations Session 3	2:00 PM	A Comparative Analysis of Lab-Based Network Emulation with Field Results for Large-Scale MANETs	Anthony Buscemi; Steven Boyd	
		2:25 PM	Data Ferrying to the Tactical Edge: A Field Experiment in Exchanging Mission Plans and Intelligence	Kyle Usbeck; Matthew Gillen; Joseph P. Loyall; Andrew Gronosky; Joshua Sterling; Ralph Kohler; Richard Newkirk; David Canestrare	
		2:50 PM	Multi-Channel Phase-Coherent RF Measurement System Architectures and Performance Considerations	David A Hall; Andy Hinde; Yupeng Jia	
SP-3A	Satellite Communications Session 1	2:00 PM	EIRP Variations due to Uplink Power Control in Small Aperture Satellite Communication Links	Vijitha Weerackody	David Brennan
		2:25 PM	Space-based WiMAX MAC Protocol—Analysis of the Network Entry Procedure	Mai Lee	
		2:50 PM	Paint vs. Performance – The Effects of Paint on Large Aperture Ka-band Antennas	Thomas Hagstrom; Angela Wang; Raul Stavoli; Roy Axford	
SP-3B	Satellite Communications Session 2	3:35 PM	FAST Digital IF Architecture and Open Standard Digital IF Interfaces	Herald Beljour; Steve Lescrier; Ogechi Palmer; Alan Michaels; Ray Mathes; Mike Beeler; Jerome Reinking; Mike Phillips	Thomas Kostas
		4:00 PM	AISR Missions on Intelsat EpicNG Ku-band	Christopher Hudson; Eric K Hall; Glenn Colby	
		4:25 PM	Incompatible Polarization Wavefront Multiplexing: A New System Perspective	Donald Chang; Joe Lee; Tzer-Hso Lin	

TRACK 4 – SYSTEM PERSPECTIVES – Tuesday 7 October 2014

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
SP-4A	System Modeling and Simulations Session 1	9:00 AM	Scintillation Simulator Test Results	William Sward; Taylor Swanson; Mckay Williams	Gary Comparetto
		9:25 AM	Design, Implementation, and Evaluation of a Hybrid DS/FFH Spread-Spectrum Radio Transceiver	Mohammed M. Olama; Stephen Killough; Teja Kuruganti; Thomas Carroll	
		9:50 AM	An Aspect-Oriented Approach to Assessing Fault Tolerance	Jeffrey Cleveland; Joseph P. Loyall; James Hanna	
SP-4B	System Modeling and Simulations Session 2	10:35 AM	Modeling terrain impact on MANET connectivity	Lance Joneckis; Corinne Kramer; Dave Sparrow; David Tate	Gary Comparetto
		11:00 AM	Trust-based Information and Decision Fusion for Military Convoy Operations	Jin-Hee Cho; Kevin S Chan; Dariusz Mikulski	
		11:25 AM	Receiver Non-Linearity Aware Resource Allocation for Dynamic Spectrum Access Systems	Aditya V Padaki; Ravi Tandon; Jeffrey Reed	
SP-5A	Network-Centric Capabilities Session 1	9:00 AM	Network Performance and Spectral Behavior of Cognitive Radios During a Coexistence Field Test	Andrew Robertson; Lan Tran; Juan Colon; Trang Mai; Sastry Kompella; Joe Molnar; Frank Fu	Paul Hershey
		9:25 AM	Content Oriented Mobile Edge Technology System Integration Framework and Field Evaluation	Zhongren Cao; Matthew French; Rajesh Krishnan; Joshua Ng; David Talmage; Qinqing Zhang	
		9:50 AM	Meeting Enterprise Multicast Access Control Requirements with Group Domain of Interpretation (GDOI)	Dan Gilbert; Ankur Aggarwal; Christopher Peterson; Gloria Witherspoon; Ken Quock	
SP-5B	Network-Centric Capabilities Session 2	10:35 AM	Network size and connectivity in mobile and stationary ad hoc networks	Dave Sparrow; Lance Joneckis; Corinne Kramer; David Tate	
		11:00 AM	Fusing Open Source Intelligence and Handheld Situational Awareness	Jeff Boleng; Marc Novakowski; Gene Cahill, Jr; Soumya Simanta; Edwin J. Morris	
		11:25 AM	On Secure, Privacy-aware, and Efficient Beacon Broadcasting among One-hop Neighbors in VANETs	Rasheed Hussain; Zeinab Rezaeifar; Donghyun Kim; Alade Tokuta; Heekuck Oh	

TRACK 4 – SYSTEM PERSPECTIVES – Tuesday 7 October 2014 – (Continued) –

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
SP-6A	System Architecture Session 1	2:00 PM	Challenges in designing Communication Systems for UAS integration into NSA	Mariano Martinez Paredes	
		2:25 PM	Tactical Cloudlets: Moving Cloud Computing to the Edge	Grace A. Lewis; Sebastián Echeverría; Soumya Simanta; James Root; Ben Bradshaw	
		2:50 PM	Low SINR Synchronization for the DARPA Spectrum Challenge Scenario	Andrew Marcum; Andrew D. Balmos; Stephen G Larew; Joon Young Kim; Alexander Layton; James V. Krogmeier; David Love	
SP-6B	System Architecture Session 2	3:35 PM	Hardware / Software Convergence for C4ISR/EW	Paul Zablocky; Seth Spoenlein; Benjamin Peddicord; Yevgeny Ivanyutin; Ryan Nilsen; Paul Sass	David Manzi
		4:00 PM	Environment-Adaptable Efficient Optimization for Programming of Reconfigurable RF Receivers	Minhee Jun; Rohit Negi; Jun Tao; Ying-Chih Wang; Shihui Yin; Tamal Mukherjee; Xin Li; Larry Pileggi	
		4:25 PM	A Technical Review of Software Defined Radios: Vision, Reality, and Current Status	Lawrence Goeller; David Tate	

TRACK 4 – SYSTEM PERSPECTIVES – Wednesday 8 October 2014

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
SP-7A	Efficient Spectrum Utilization Session 1	9:00 AM	QoS Assurance for Shared Spectrum Systems	Munawwar Sohul; Xiaofu Ma; Taeyoung Yang; Jeffrey Reed	Susan Gottschlich
		9:25 AM	A Linux Kernel Implementation of MANET IP Header Compression	Bow-Nan Cheng; Tak Wong; Brian Hung	
		9:50 AM	An Evaluation of IP Header Compression on the GIG Joint IP Modem System	Brian Hung; Dana Defrancesco; Bow-Nan Cheng; Prasanna Sukumar	
SP-7B	Efficient Spectrum Utilization Session 2	10:35 AM	RF performance implications of wideband HF waveforms	Eric Koski; John Nieto; Mark Thompson; John Russell	Shubha Kadambe
		11:00 AM	A Utility Proportional Fairness Resource Allocation in Spectrally Radar-Coexistent Cellular Networks	Mo Ghorbanzadeh; Ahmed Abdelhadi; T. Charles Clancy	
		11:25 AM	Implementation and Analysis of Energy Detection-based Sensing using USRP/SBX platform	Joon Young Kim; Andrew D. Balmos; Andrew Marcum; Alexander Layton; Stephen G Larew; James V. Krogmeier; David Love	