

Note that papers are NOT listed in presentation order.

U010 - Advanced Communication Technology (ACT)

10/23/2006

8:00:00 AM

US-M-W - Advances in Network Science – Physical Layer Modeling

Charles Graff

Collaborative Signal Processing Using Radar Sensor Networks

Qilian Liang, University of Texas at Arlington

Simple BER Approximations for Generalized Selection Combining (GSC) over Rayleigh Fading Channels and its SNR Gap Properties

Ning Kong, Broadcom Corporation

Analytical BER Analysis of the Space Time Block Coded Systems in Frequency Selective Rician Fading Channels

Tung Lai, University of Calgary

Tuan Tran, University of Calgary

Abu Sesay, University of Calgary

Adaptive binary signature design for code division multiplexing

Lili Wei, first author

Dimitris.A. Pados, associate

Stella.N. Batalama, corresponding author

Bruce Suter, associate

The performance of space-time coded cooperative diversity in an asynchronous cellular uplink

Kanchan Vardhe, West Virginia University

Daryl Reynolds, West Virginia University

Performance of Generalized Diversity Combining System for Coded Transmissions

Zhengdao Wang, Iowa State University

Sang Wu Kim, Iowa State University

Random Waterfilling in a Clustered Multiuser OFDM System

Eun Ho Choi, The University of Texas at Austin

Wan Choi, The University of Texas at Austin

Baxter Womack, The University of Texas at Austin

1:45:00 PM

US-M-N - DVB Technologies and Video Communications

Sastri Kota

Link Analysis of Commercial and Wideband Gapfiller Satellite (WGS) Satellites Using DVB-S2 with Variable Coding and Modulation (VCM)

Bruce Bennett, DISA

Daniel Hannan, SMDC/ARSTRAT

James Marshall, MITRE Corp

Richard Gibbons, MITRE Corp

WGS Capacity Using the DoD Joint IP Modem (DVB-S2, RCS)

Bruce Bennett, DISA

Daniel Hannan, SMDC/ARSTRAT

James Marshall, MITRE Corp

Richard Gibbons, MITRE Corp

DVB-S2 Technology Development for DoD IP SATCOM

Kensing Quock, Booz Allen Hamilton

Edwin Summers, Booz Allen Hamilton

Michael Difranco, Booz Allen Hamilton

Bruce Bennett, Defense Information Systems Agency

Digital Video Broadcast Return Channel Satellite (DVB-RCS) Hub Installation and Integration for DISA and US CENTCOM

Keith Dyson, Marshall Communications Corp

Bruce Bennett, Defense Information Systems Agency Falls Church, VA

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Veloris (Sonny) Marshall, Marshall Communications Corp
James (Jake) Obi, Space and Naval Warfare Systems Center Charleston, South Carolina
Minh Nguyen Nguyen, Booz Allen Hamilton, Herndon, Virginia

Optimal Bandwidth Allocation for Scalable H.264 Video Transmission over MIMO Systems

Mohammad Jubran, University at Buffalo, SUNY
Manu Bansal, University at Buffalo, SUNY
Rohan Grover, University at Buffalo, SUNY
Lisimachos Kondi, University at Buffalo, SUNY

n-Channel Symmetric Motion-Compensated Multiple Description Coding for Video Communications over OFDM Networks

Yee Sin Chan, University of Miami
Pamela Cosman, University of California, San Diego
Laurence Milstein, University of California, San Diego

Bandwidth-Smart Unmanned Motion Video Systems in Distributed Networked Operations

David Keightley, Mediaware International Inc
Karen Gale, Mediaware International Inc

10/24/2006

8:00:00 AM

US-T-W - Adaptive Antenna Arrays for Military Communications

Kesh Bakhru

Improved MUSIC by Exploiting Both Real and Complex Sources

Feifei Gao, National University of Singapore
Yide Wang, University of Nantes
Arumugam Nallanathan, National University of Singapore

Anticipative Maximin Adaptive-Array Algorithm for Frequency-Hopping Systems

Don Torrieri, US Army Research Laboratory
Kesh Bakhru, Cubic Defense Applications

Direction Finding for Spread-Spectrum Systems with Adaptive Arrays

Don Torrieri, US Army Research Laboratory
Kesh Bakhru, Cubic Defense Applications

Relaying Strategies for Cooperative Networks with Minimal Node Cooperation

Leonard Cimini, University of Delaware
Lu Zhang, University of Delaware
Lin Dai, University of Delaware
Xiang-Gen Xia, University of Delaware

Lightweight Agile Beam Antennas for UAVs

Wyman Williams, EMS Technologies, Inc.
Chris Burton, EMS Technologies, Inc.

Small, Uni-planar Antenna Suitable for Body Wearable Applications

Rod Waterhouse, Pharad, LLC
Dalma Novak, Pharad, LLC

Reduced-Rank Multi-Antenna Cyclic Wiener Filtering for Interference Cancellation

Hong Zhang, ECE, NJIT
Ali Abdi, ECE, NJIT
Alexander Haimovich, ECE, NJIT

1:45:00 PM

US-T-X - Advanced Technologies in Networking and Applications

Cam Tran

Fuzzy Diffusion Analysis: Decision Significance and Applicable Scenarios

Manikandan Balakrishnan, New Mexico State University
Eric Johnson, New Mexico State University

Model Based Intelligence: Concepts, Architectures, and Features

David Kroenke, University of Washington

Note that papers are NOT listed in presentation order.

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Rick Leenstra, Applied Technical Systems
Bruce Harlow, Rear Admiral, USN (JAG), Retired

Shared Data Services in Support of Communications and Network Modeling, Simulation, and Analysis

Cam Tran, SPAWARSYSCEN SAN DIEGO

Internet 3.0: Ten Problems with Current Internet Architecture and Solutions for the Next Generation

Raj Jain, Washington University in Saint Louis

Analysis of Mobility in Adaptive Data Rate Wireless Networks

Juha-Pekka Makela, University of Oulu, Finland

Timo Brassy, University of Oulu, Finland

Kaveh Pahlavan, WPI, USA

SPACEWAY Now and In The Future: On-Board IP Packet Switching Satellite Communication Network

David Whitefield, Hughes

Rajeev Gopal, Hughes

Steven Arnold, Hughes

Comparative Simulative Analysis of WDM LANs for Avionics Platforms

Casey Reardon, University of Florida

John Profumo, University of Florida

Alan George, University of Florida

10/25/2006

8:00:00 AM

US-W-Q - Enabling Net-Centric Warfare - Distributed Networking and Architecture I: Concepts and Technologies

Cam Tran and Mark Stell

Developing an Efficient DMCI S with Next-Generation Wireless Networks

Al-Sakib Khan Pathan, Networking Lab, Computer Engineering Department, Kyung Hee University, Korea

Choong Seon Hong, Computer Engineering Department, Kyung Hee University, Korea

ADAPTIVE MULTICAST KEY MANAGEMENT FOR EFFICIENT WIRELESS TACTICAL NETWORKS

Brian Matt, SPARTA

Mathew Mundy, SPARTA

A proposal for a new measure analogous to entropy for bandwidth constrained, Control-Based Ad-hoc network design

Haruko Kawahigashi, Mitsubishi Electric Corporation

Yoshiaki Terashima, Mitsubishi Electric Corporation

Naoto Miyauchi, Mitsubishi Electric Corporation

Optimum Energy Allocation for Cooperative Networks with Differential Modulation

Woong Cho, University of Florida

Liuqing Yang, University of Florida

Tailoring DoDAF for Service Oriented Architectures

Fatma Dandashi, Mitre Corp.

Huei-Wan Ang, Mitre Corp.

Michael McFarren, Mitre Corp.

Layering As Optimization Decomposition: Questions and Answers

Mung Chiang, Princeton University

Steven Low, California Institute of Technology

A. Robert Calderbank, Princeton University

John Doyle, California Institute of Technology

The Joint Airborne Network Services Suite

Roger Trafton, The MITRE Corporation

Steven Pizzi, The MITRE Corporation

US-W-Y - Enabling Technologies for Optical Communications and Networking

Anurag Dwivedi

Note that papers are NOT listed in presentation order.

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Design and demonstration of a novel Optical CDMA platform for avionics applications

*Ivan Glesk, Princeton University
Yue-Kai Huang, Princeton University
Camille Bres, Princeton University
Paul R. Prucnal, Princeton University*

Effects of EDFA Gain on WDM Fiber Optic Standard Frequency Distribution Link

*Mehdi Shadaram, University of Texas at San Antonio
John Summerfield, University of Texas at San Antonio
Jennifer Bratton, University of Texas at San Antonio
Paul Cotaie, University of Texas at San Antonio*

Efficient routing for hybrid optical-CDMA and WDM all-optical networks

*Mehdi Shadaram, University of Texas at San Antonio
Ahmed Musa, University of Texas at El Paso
Virgilio Gonzalez, University of Texas at El Paso
John Medrano, University of Texas at El Paso
Paul Cotaie, University of Texas at San Antonio*

Critical technology gaps and potential solutions for mobile free space optical networking

Anurag Dwivedi, JHU/APL

Optical PPM Combining Loss for Photon Counting Receivers

*Kevin Quirk, Jet Propulsion Laboratory, California Institute of Technology
Jonathan Gin, Jet Propulsion Laboratory, California Institute of Technology*

Modeling Optical Transport in Wireless Networks

*James Farina, VPIsystems
Andre Richter, VPIsystems
Hadrien Louchet, VPIsystems
Igor Koltchanov, VPIsystems*

Wavelength Correlation in Free Space Optical Communication Systems

*Vijitha Weerackody, Johns Hopkins University/APL
Roger Hammons, Johns Hopkins University/APL*

1:45:00 PM

US-W-R - Enabling Net-Centric Warfare - Distributed Networking and Architecture II: Techniques and Practices

Cam Tran and Mark Stell

Performance Analysis of DRAMA: A Distributed Policy-based System for MANET Management

Cho-Yu Chiang, Telcordia Technologies

A Methodology for Making Performance-Based Comparisons with Architectural Information

*Gerald Doyle, Defense Information Systems Agency
Elizabeth White, George Mason University*

TACFIRE: Enterprise Knowledge in Service Oriented Architecture

*R. William Maule, Naval Postgraduate School
Shelley Gallup, Naval Postgraduate School*

Proactive Multicast-Based Ipsec Discovery Protocol

Trung Tran, SPAWAR System Center San Diego

Employing Ad-Hoc Networking with Aerial Communications Nodes for Wireless Tactical Experimentation

*Yuen-Chong Chim, Defence Science and Technology Agency, Singapore
Kwang-Wee Seah, Defence Science and Technology Agency, Singapore
Soon-Lian Sim, Defence Science and Technology Agency, Singapore
Ken-Leong Khoo, Defence Science and Technology Agency, Singapore
Yuen-Sin Lee, Defence Science and Technology Agency, Singapore
Ying-Cheung Lai, Defence Science and Technology Agency, Singapore
Yu-Chiann Foo, Defence Science and Technology Agency, Singapore*

NATO TACOMS

*Brian Hughes, DOD TACOMS International Project Office
Timothy Sharpe, DISA*

An Efficient Intranet Networking Solution for Airborne Networks

Reza Ghanadan, BAE Systems Inc.

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Jessica Hsu, BAE Systems Inc.
John Gu, BAE Systems Inc.
Greg Sadosuk, BAE Systems Inc.
Phong Khuu, BAE Systems Inc.
William Gallagher, BAE Systems Inc.

U020 - Information and Network Management (IANM)

10/23/2006

8:00:00 AM

US-M-E - Integrated Fault/Intrusion Detection and Correlation

Ritu Chadha

Impact of Sanitized Message Flows in a Cooperative Intrusion Warning System

Peter Martini, University of Bonn
Marko Jahnke, FGAN/FKIE
Jens Toelle, FGAN/FKIE
Nils gentschen Felde, Ludwig-Maximilians University, Munich

Monitoring Mobile Device Vitals for Effective Reporting (ER)

J. Scot Ransbottom, D/Electrical Engineering & Computer Science, US Military Academy
Grant A. Jacoby, D/Electrical Engineering & Computer Science, US Military Academy

Creating and Maintaining a Good Intrusion Detection Hierarchy in Dynamic Ad Hoc Networks

Anthony McAuley, Telcordia
Kyriakos Manousakis, Telcordia
Richard Gopaul, ARL
Dan Sterne, SPARTA
Peter Kruus, SPARTA

Integrating Intrusion Detection and Fault Localization in MANETS

Dan Sterne, Sparta
Simon Tsang, Telcordia
Maitreya Natu, University of Delaware
Dave Balenson, Sparta
Petros Mouchtaris, Telcordia
Adarshpal Sethi, University of Delaware

Understanding and Evaluating the Impact of Sampling on Anomaly Detection Techniques

Georgios Androulidakis, National Technical University of Athens
Vassilis Chatzigiannakis, National Technical University of Athens
Symeon Papavassiliou, National Technical University of Athens
Mary Grammatikou, National Technical University of Athens
Basil Maglaris, National Technical University of Athens

Packet Scheduling Against Stepping-Stone Attacks

Ting He, Cornell University
Parvathinathan Venkitasubramaniam, Cornell University
Lang Tong, Cornell University

US-M-Q - Implementing Military Quality of Service I (Warfighter Centric)

Deborah Farroha

Adaptive RS Code for Message Delivery Over Encrypted Military Wireless Networks

Yan Grushevsky, General Dynamics C4 Systems
George Elmasry, General Dynamics C4 Systems
Steven Argentiery, General Dynamics C4 Systems
Ray Lussier, General Dynamics C4 Systems

Adaptive Statistical QoS: Learning Parameters to Maximize End-to-End Network Goodput

Scott Evans, GE Research
Ping Liu, GE Research
Asavari Rothe, GE Research
Kai Goebel, GE Research

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Weizhong Yan, GE Research
Ishan Weerakoon, Lockheed Martin
Martin Egan, Lockheed Martin

An RSVP Surrogate for Guaranteed Bandwidth for Tactical Communications

Benjamin Oshlag, The MITRE Corporation
Dylan Pecelli, The MITRE Corporation
Steven Pizzi, The MITRE Corporation

Service Level Agreements and QoS Delivery in Mission Oriented Networks

Bharat Doshi, University of Massachusetts, ECE Department
sherry wang, The Johns Hopkins University / Applied Physics Laboratory
Paul Kim, The Johns Hopkins University / Applied Physics Laboratory
Burt Liebowitz, The MITRE Corporation
Kun Park, The MITRE Corporation
Deborah Goldsmith, The MITRE Corporation

GIG/DISN Quality of Service and Service Level Agreement Management for Integrated Global Wireless Tactical Services to the Deployed Warfighters

Syed Shah, Defense Information Systems Agency
Bruce Bennett, Defense Information Systems Agency
Pamela Hemmings, Booz Allen Hamilton

QoS Enhancements to BGP in Support of Multiple Classes of Service

Lotfi Benmohamed, JHU/APL
Chieh-Jan Mike Liang, JHU/CS
Eric Naber, JHU/APL
Andreas Terzis, JHU/CS

Cross-Layer Design Challenges for Quality of Service Guarantees for Satellite Networks

Kota Sastri, Harris Corporation

1:45:00 PM

US-M-R - Implementing Military Quality of Service II (Next Generation Military Communications Centric)

Sam Farroha

Supporting Real-Time Video in SCTP Networks

Ahmed Abd El Al, City University of New York
Tarek Saadawi, City University of New York
Myung Lee, City University of New York

QoS Support in Multi-link and Multi-rate Systems

Harold Zheng, Johns Hopkins University Applied Physics Lab
Sherry Wang, Johns Hopkins University Applied Physics Lab
Christopher Rogers, Johns Hopkins University Applied Physics Lab
Robert Nichols, Johns Hopkins University Applied Physics Lab

Concurrent Quality of Service Requirements: A Comparative Analysis of Routing Path Selection Methods

Subramaniam Kandaswamy, Johns Hopkins University, Applied Physics Lab

Increasing TCP Throughput with an Enhanced Control Plane

Andy Bavier, Princeton University
Larry Peterson, Princeton University
Jack Brassil, HP Laboratories
Rick McGeer, HP Laboratories
David Reed, HP Laboratories
Puneet Sharma, HP Laboratories
Praveen Yalagandula, HP Laboratories
Alex Henderson, Anagran Inc.
Lawrence Roberts, Anagran Inc.
Stephen Schwab, Sparta Inc.
Roshan Thomas, Sparta Inc.
Erik Wu, Sparta Inc.
Brian Mark, George Mason University
Ben Zhao, UC Santa Barbara
Anthony Joseph, UC Berkeley

Flow based CAC with MLPP

Erlend Knutsen, Applica as
Andreas Hafslund, Thales Norway

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Configuring IP QoS mechanisms for graceful degradation of real-time services

*Jonathan Pitts, Queen Mary, University of London
John Schormans, Queen Mary, University of London*

QoS mechanisms for opaque MANETs

*Alexander Poylisher, Telcordia Technologies
Farooq Anjum, Telcordia Technologies
Latha Kant, Telcordia Technologies
Ritu Chadha, Telcordia Technologies*

10/24/2006

8:00:00 AM

US-T-E - IPv6 - Practice

Larry Levine

Multi-Level Security, Geographically Targeted Information Dissemination Using IPv6

*Cynthia Martin, SI International
Jeffrey Dunn, RGII*

An Approach to IPv4 to IPv6 Transition in Wireless Networks

*Ed Jankiewicz, SRI International
Kwai-Fung Chan, US Army CERDEC S&TCD
Dave Green, Command Information, Inc.*

IPv6 for Coalition Network Enabled Capability

*Rob Goode, NC3A
Patrice Guivarch, DGA/CELAR
Peter Sevenich, FGAN/FKIE*

IPv6 Transition Techniques for Legacy Application

*Ashutosh Dutta, Telcordia Technologies
Aileen Cheng, Telcordia
Dana Chee, Telcordia
Tony McAuley, Telcordia
Bryan Lyles, Telcordia
James Alfieri, Telcordia
Bob Horgan, Telcordia*

Notional Security Architectures for Department of Defense (DoD) Networks Transitioning to Internet Protocol version 6 (IPv6)

*Jeffrey Dunn, RG2, Inc.
Cynthia Martin, SI International*

GBS Integration with IPv6: A Pilot Implementation

*Bruce Bennett, Defense Information Systems Agency
Kathir Ramaswami, Booz Allen Hamilton*

IPv6 Application Performance Characterization Using A Virtual/Live Testbed

*Ranga Reddy, Space & Terrestrial Communications Directorate, Ft. Monmouth, NJ
Richard Mayo, Space & Terrestrial Communications Directorate, Ft. Monmouth, NJ*

US-T-Q - Sensor Networks - Information Processing and Data Fusion I

I-Jeng Wang

Sensor Registration in a Sensor Network by Continuous GRASP

*Michael Hirsch, Raytheon and University of Florida (ISE Dept.)
Panos Pardalos, University of Florida (ISE Dept.)
Mauricio Resende, AT&T Labs Research*

Sensor Scheduling in Multiple Parameters Estimation under Energy Constraint

*yi wang, Department of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor, MI 48109
Mingyan Liu, Department of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor, MI 48109
Demosthenis Teneketzis, Department of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor, MI 48109*

On Heterogeneous Sensor Node Placement

Santosh Pandey, Auburn University

Note that papers are NOT listed in presentation order.

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Prathima Agrawal, Auburn University

A Comparison of Stationary and Cyclostationary TDOA Estimators

Daniel Gisselquist, US Air Force

Multi-modal calibration of surveillance sensor networks

Min Ding, Department of Computer Science, the George Washington University

Andreas Terzis, Department of Computer Science, Johns Hopkins University

I-Jeng Wang, Johns Hopkins University Applied Physics Laboratory

Dennis Lucarelli, Johns Hopkins University Applied Physics Laboratory

An Error Propagation Aware Algorithm for Precise Cooperative Indoor Localization

Nayef Alsindi, Worcester Polytechnic Institute

Kaveh Pahlavan, Worcester Polytechnic Institute

Bardia Alavi, Worcester Polytechnic Institute

MANET Localization via Multi-node TOA-DOA Optimal Fusion

Seyed A. Zekavat, Michigan Technological University

Zhonghai Wang, Michigan Technological University

1:45:00 PM

US-T-F - IPv6 - Theory

Larry Levine

IPv6 Stateless Address Autoconfiguration Considered Harmful

Janne Lindqvist, Helsinki University of Technology, Telecommunications Software and Multimedia Laboratory

Applying Service Class Aggregates to the Global Information Grid

Kevin Sheu, Booz Allen Hamilton

Chris Christou, Booz Allen Hamilton

William Hall, Joint Terminal Engineering Office

PA-FMIP: A Mobility Prediction Assisted Fast Handover Protocol

Andre Bergh, University of Cape Town

Neco Ventura, University of Cape Town

Performance of Packet Header Compression and Context Replication in Wireless/Mobile Systems

Chonggang Wang, University of Arkansas

Kazem Sohraby, University of Arkansas

Derya Cansever, SI-International

Mobile IPv6 for Netcentric Warfare

Carl Williams, SI International

Derya Cansever, SI International

Junaid Islam, Caspian

IPv6 versus IPv4 Interworking with QoS Guarantees

Mario Marchese, University of Genoa

Annamaria Raviola, Selex Communications S.p.A., a Finmeccanica Company

Maurizio Mongelli, University of Genoa

Vincenzo Gesmundo, Selex Communications S.p.A., a Finmeccanica Company

Alessandro Garibbo, Selex Communications S.p.A. a Finmeccanica Company

Personal Information based IP Autoconfiguration In Tactical Mobile Ad-Hoc Network

Yeonkwon Jeong, Information and Communications University

Hyunjun Choi, Information and Communications University

Joongsoo Ma, Information and Communications University

US-T-R - Sensor Networks - Information Processing and Data Fusion II

Andreas Terzis

Power Allocation in Distributed Detection with Wireless Sensor Networks

Xin Zhang, Princeton University

H. Vincent Poor, Princeton University

Mung Chiang, Princeton University

Fault Tolerant Three Dimensional Environment Monitoring Using Wireless Sensor Networks

Yuan Guo, Electrical and Computer Engineering Dept., University of Florida

Janise McNair, Electrical and Computer Engineering Dept., University of Florida

Energy-Efficient Cluster-based Distributed Estimation in Wireless Sensor Networks

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Junlin Li, Georgia Institute of Technology
Ghassan AlRegib, Georgia Institute of Technology

Error Exponents for Target-Class Detection in a Sensor Network

Saswat Misra, Army Research Laboratory
Lang Tong, Cornell University
Tony Ephremides, University of Maryland

Sensor network design for underwater surveillance

Lotfi Benmohamed, JHU/APL
Phil Chimento, JHU/APL
Bharat Doshi, JHU/APL
Robert Henrick, JHU/APL
I-Jeng Wang, JHU/APL

Energy Efficient Distributed Detection Via Multi-hop Transmission in Sensor Networks

Wenjun Li, North Carolina State University
Huaiyu Dai, North Carolina State University

US-T-T - Military Precedence & Preemption for the GIG

Brian Choi and Robert Cole

Tactical Frequency Management in QoS-Enabled Networks

Gregory Wagner, Inception Consulting
Susan Millender, US Army, PM WIN-T

Requirements and Architectural Analysis for Precedence capabilities in the Global Information Grid

Bassam S. Farroha, Johns Hopkins University - Applied Physics Lab
Antonio DeSimone, OASD - NII
Burt Liebowitz, MITRE

Precedence, Preemption and the IETF

Kimberly King, SAIC

Flow Based Priority and Preemption (P&P) Methods without a Priori Signaling

Derya Cansever, SI International
Junaid Islam, Caspian Networks

Dynamic Changes in Subscriber Behavior and their Impact on the Telecom Network in Cases of Emergency

Ahmad Jrad, Lucent Technologies
Gerard O'Reilly, Lucent Technologies
Stephen Conrad, Sandia National Laboratories
Andjelka Kelic, Sandia National Laboratories
Steven Richman, Lucent Technologies

Precedence Based Admission Control and Preemption in IP Networks

Kwok Ho Chan, Nortel Networks

Precedence and Quality of Service (QoS) Handling in IP Packet Networks

Deborah Goldsmith, MITRE Corporation
Burt Liebowitz, MITRE Corporation
Kun Park, MITRE Corporation
Sherry Wang, JHU/APL
Bharat Doshi, University of Massachusetts

10/25/2006

8:00:00 AM

US-W-u - Policy Based Network Management

Xi Jiang

Policy-Based Management of the Future Airborne Network via Peer-to-Peer Networking

Steven Pizzi, The MITRE Corporation
Elizabeth Idhaw, The MITRE Corporation
Lucas Lam, The MITRE Corporation
Dylan Pecelli, The MITRE Corporation

A Cautionary Note About Policy Conflict Resolution

Ritu Chadha, Telcordia

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A Service Oriented Framework for Policy-Based Management of Maritime Mobile Networks
David Kidston, CRC
Isabelle Labbe, CRC

9:45:00 AM

US-W-U - Networking Over Radio Frequencies

Michael Rupar

Performance Analysis of BPSK with Errors and Erasures Decoding to Mitigate the Effects of Pulse-Noise Interference
Clark Robertson, Naval Postgraduate School
Georgios Zouros, Naval Postgraduate School

Internet Protocol (IP) - Based Range Extension
Ferit Yegenoglu, Lockheed Martin

High Altitude Router and Relay for Over-the-Horizon Networks
Jonathan Doffoh, Naval Research Lab
Ray Mereish, Naval Research Lab
Reed Porada, Naval Research Lab
Mike Rupar, Naval Research Lab
Ivan Corretjer, Naval Research Lab

Major Improvements in TCP Performance over Satellite and Radio
Lawrence Roberts, Anagran Inc.

1:45:00 PM

US-W-T - Information Assurance in Military Communications

Mike Kurdziel

Integrated Services Provisioning Across Cryptographic Boundaries
Arun Ayyagari, The Boeing Company
Orlie Brewer, The Boeing Company
Michael Foster, The Boeing Company

Integrating Header Compression with IPsec
Etzel Brower, Booz Allen Hamilton
LaTonya Jeffress, Booz Allen Hamilton
Jonah Pezeshki, Booz Allen Hamilton
Rohan Jasani, Booz Allen Hamilton
Emre Ertekin, Booz Allen Hamilton

Secure Clustering in DSN with Key Predistribution and WCDS
Al-Sakib Khan Pathan, Kyung Hee University
Choong Seon Hong, Kyung Hee University

Secure Neighborhood Routing Protocol
Ajay Jadhav, New Mexico State University
Eric Johnson, New Mexico State University

Scalable Link-layer Key Agreement In Sensor Networks
Yun Zhou, University of Florida
Yuguang Fang, University of Florida

A Cross-layer approach to detect Jamming attacks in wireless ad hoc networks
Ramalingam Sridhar, University at Buffalo (SUNY)
Geethapriya Thamarasu, University at Buffalo (SUNY)
Sumita Mishra, CompSys Technologies Inc.

Multi-Level Security for Service-Oriented Architectures
HariGovind Ramasamy, IBM Zurich Research Laboratory
Matthias Schunter, IBM Zurich Research Laboratory

US-W-V - Advanced Technologies in Network Management

Kanda Kandaswamy

Considerations of Connecting MANETs Through an Airborne Network
Robert Butler, Rockwell Collins
Lawrence Creech, Rockwell Collins
Albert Anderson, Rockwell Collins

A Mobile-to-Grid Gateway Model and Load Scheduling Scheme for e-Health Service in Grid

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Youngjoo Han, Information and Communications University
Chan-Hyun Youn, Information and Communications University
Hyewon Song, Information and Communications University

End-to-End Enterprise Monitoring Framework for NetOps

Paul Hershey, HAI, A Raytheon Company
Donald Runyon, HAI, A Raytheon Company
Yangwei Wang, DISA

A proposal for coalition networking in dynamic operational environments

Ran Atkinson, Extreme Networks
Manish Lad, University College London
Saleem Bhatti, University of St. Andrews
Stephen Hailes, University College London

Resource Allocation Over Grid Computing Military Networks

Igor Bisio, University of Genoa
Maurizio Mongelli, University of Genoa
Mario Marchese, University of Genoa
Annamaria Raviola, Selex Communications

Stateless and Configurationless QoS Approach for the Joint Airborne Networks - Tactical Edge

Phong Khuu, BAE Systems
Kui Fan, BAE Systems
Michael Weber, BAE Systems
Brian Loop, BAE Systems
Anand Trivedi, OPNET Technology Inc.

U030 - Network Security (NS)

10/23/2006

8:00:00 AM

US-M-O - Discovery, Security, Mobility, and Performance in Virtual Private Networks

Bharat Doshi

A Performance Comparison Study of End-to-End Congestion Control Protocols over MIMO Fading Channels

Homayoun Yousefi'zadeh, Boeing
Wojtek Furmanski, Boeing
Amir Habibi, UC, Irvine

Securing the Global Information Grid Routing Control Plane

Victor Chao, Booz Allen Hamilton
Christos Christou, Booz Allen Hamilton
Julie Tarr, Office of the Assistant Secretary of Defense / Networks and Information Integration (OASD/NII)

Modeling and Simulation of HAIPE

Mohammad Mirhakkak, MITRE Corp
Phong Ta, MITRE
Gary Comparetto, MITRE Corp
Victoria Fineberg, DISA

BGP Rerouting Solutions for Transient Routing Failures and Loops

Jian Qiu, Univ. of Massachusetts, Amherst
Lixin Gao, Univ. of Massachusetts, Amherst
Feng Wang, Univ. of Massachusetts, Amherst

Design and Applications of A Smooth Mobility Model for Mobile Ad Hoc Networks

Ming Zhao, ECE Department of NCSU
Wenye Wang, ECE Department of NCSU

Applying 4364 Virtual Private Networks to the Global Information Grid

Emre Ertekin, Booz Allen Hamilton
Christos Christou, Booz Allen Hamilton

TCP-VAR: a fair, robust ad hoc network TCP based on variance feedback

Jiwei Chen, UCLA

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Mario Gerla, UCLA
Yeng-Zhong Lee, UCLA
Medy Sanadidi, UCLA

1:45:00 PM

US-M-F - Encryption Techniques and Signal Processing

Fran Zenzen

Reducing the Length of Shannon-Fano-Elias Codes and Shannon-Fano Codes

Xiaoyu Ruan, North Dakota State University
Rajendra Katti, North Dakota State University

A Novel Stream Cipher for Cryptographic Applications

David M. Horan, Cork Institute of Technology
Richard A. Guinee, Cork Institute of Technology

The Secure Communication Interoperability Protocol (SCIP) Over an HF Radio Channel

Michael Kurdziel, Harris Corporation
William Furman, Harris Corporation
Jack Alvermann, Harris Corporation

Investigation of Fault Propagation in Encryption of Satellite Images Using the AES Algorithm

Roohi Banu, Surrey Space Centre, university of Surrey, UK
Tanya Vladimirova, Surrey Space Centre, University of Surrey, UK

An Integrated Radio Frequency Design Environment (IRFDE)

Donya He, BAE Systems

Multiuser CDMA Signal Extraction

Ming Li, State University of New York at Buffalo
Stella N. Batalama, State University of New York at Buffalo
Dimitrios A. Pados, State University of New York at Buffalo
John D. Matyjas, Air Force Research Laboratory

Public Key Cryptographic System using Mandelbrot Sets

Suthikshn Kumar, PESIT

10/24/2006

8:00:00 AM

US-T-G - Information Security and Network Countermeasure Mechanisms

Stamatios Kartalopoulos

Catastrophic Critical Point Detection Prediction(CCPDP) Software Protocol Development And Performance Evaluation For Homeland Security And Theater Mis

Carol Niznik, NW SYSTEMS

Information Security Implications of Autonomous Systems

Zia Hayat, University of Southampton
Jeff Reeve, University of Southampton
Chris Boutle, BAE SYSTEMS
Martin Field, BAE SYSTEMS

Authentication Mechanisms for Call Control Message Integrity and Origin Verification

Cynthia Martin, SI International
Jeffrey Dunn, RGII

Modeling the Spread of Internet Worms Via Persistently Unpatched Hosts

Warren Debany, Air Force Research Laboratory, Information Grid Division

Policy-Based Management and Sharing of Sensitive Information Among Government Agencies

Christopher Johnson, IBM
Jerry Kiernan, IBM
Tryg Ager, IBM

Optical Network Security: Channel Signature ID

Stamatios Kartalopoulos, The University of Oklahoma

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Optical Network Security: Countermeasures in View of Channel Attacks
Stamatios Kartalopoulos, The University of Oklahoma

10/25/2006

8:00:00 AM

US-W-C - Security Technologies and Risk Assessment for Homeland Security Applications

Peter Sholander

NSTAC

Thad Odderstol, DHS/NCS
David Barron, BellSouth Corp

Evidence-Based Techniques for Evaluating Cyber Protection Systems for Critical Infrastructures

John Darby, Sandia National Laboratories
James Phelan, Sandia National Laboratories
Peter Sholander, Sandia National Laboratories
Bryan Smith, Sandia National Laboratories
Andrew Walter, Sandia National Laboratories
Gregory Wyss, Sandia National Laboratories

Using Attack and Protection Trees to Analyze Threats and Defenses to Homeland Security

Kenneth Edge, Air Force Institute of Technology
George Dalton, Air Force Institute of Technology
Richard Raines, Air Force Institute of Technology
Robert Mills, Air Force Institute of Technology

An Evaluation of the Susceptibility of eLORAN to Intentional Interference

David J. Chadwick, The MITRE Corporation

Situation Monitoring and Analysis of Security Risk for Networked Services

Douglas Wiemer, Alcatel
Brad McFarlane, Alcatel
Christophe Gustave, Alcatel
Stanley Chow, Alcatel
Jean-Marc Robert, Ecole de Technologie Superieure

Automated Discovery of Unknown Unknowns

Patrick Talbot, Northrop Grumman

Validating and Restoring Defense in Depth Using Attack Graphs

Richard Lippmann, MIT Lincoln Laboratory
Kyle Ingols, MIT Lincoln Laboratory
Chris Scott, MIT Lincoln Laboratory
Keith Piwowarski, MIT Lincoln Laboratory
Kendra Kratkiewicz, MIT Lincoln Laboratory
Mike Artz, MIT Lincoln Laboratory
Robert Cunningham, MIT Lincoln Laboratory

US-W-I - Wireless Network Security

Harold Zheng

On the Performance of A Distributed Key Management Scheme in Heterogeneous Wireless Sensor Networks

Kejie Lu, UPR-Mayaguez
Yi Qian, UPR-Mayaguez

Securing Communication of Dynamic Groups in Dynamic Network-Centric Environments

Roger Khazan, MIT Lincoln Laboratory
Robert Figueiredo, MIT Lincoln Laboratory
Ran Canetti, IBM T.J. Watson Research Center
Cynthia McLain, MIT Lincoln Laboratory
Robert Cunningham, MIT Lincoln Laboratory

A Proactive Data Security Framework for Mission-critical Wireless Sensor Networks

Kui Ren, Worcester Polytechnic Institute
Wenjing Lou, Worcester Polytechnic Institute
Patrick J. Moran, AirSprite Technologies, Inc., Northboro, MA

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Location Verification Using Communication Range Variation for Wireless Sensor Networks

Dawood Al-Abri, University of Florida
Janise McNair, University of Florida
Eylem Ekici, Ohio State University

DSPM: Dynamic Security Policy Management for Optimizing Performance in Wireless Networks

Avesh Agarwal, North Carolina State University
Wenye Wang, North Carolina State University

Increasing Flexibility in Network Visibility and Intrusion Response

Patrick Allen, General Dynamics Advanced Information Systems

Networking with Secrecy Constraints

Parvathinathan Venkitasubramaniam, Cornell University
Ting He, Cornell University
Lang Tong, Cornell University

1:45:00 PM

US-W-J - Wireless Security Aspects

Sherry Wang

Physical Layer Intrusion Detection in Wireless Networks

A. A. Tomko, JHU/APL
C. J. Rieser, JHU/APL
L. H. Buell, JHU/APL

Understanding Dynamic Denial of Service attacks in Mobile Ad Hoc Networks

Fei Xing, North Carolina State University
Wenye Wang, North Carolina State University

ROSETTA: Robust and Secure Mobile Target Tracking in a Wireless Ad Hoc Environment

Satyajayant Misra, Computer Science and Engineering Department, Arizona State University
Guoliang Xue, Computer Science and Engineering Department, Arizona State University
Sarvesh Bhardwaj, Electrical Engineering Department, Arizona State University

Defending against Physical Destruction Attacks on Wireless Sensor Networks

Yanchao Zhang, University of Florida
Yuguang Fang, University of Florida

Detecting Wormhole Attacks in Mobile Ad Hoc Networks through Protocol Breaking and Packet Timing Analysis

Maria Gorlatova, University of Ottawa
Ramiro Liscano, University of Ottawa
Maoyu Wang, Communications Research Centre
Louise Lamont, Communications Research Centre
Peter Mason, Defence Research & Development Canada

Intelligent Jamming in Wireless Networks with Applications to 802.11b and Other Networks

David Thuente, North Carolina State University
Mithun Acharya, North Carolina State University

Intrusion Detection Schemes for Sparsely Connected Ad Hoc Networks

Mooi Choo Chuah, Lehigh University
Peng Yang, Lehigh University

U040 - Coding, Modulation and Signal Processing (CMASP)

10/23/2006

1:45:00 PM

US-M-P - Network Science

Ananthram Swami and Brian Sadler

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

An Analytical Framework for The Characterization of Link Dynamics in MANETs

J.J. Garcia-Luna-Aceves, UC Santa Cruz/PARC

Hamid Sadjadpour, UC Santa Cruz

Xianren Wu, UC Santa Cruz

Decode-and-Forward Cooperative Networks with Multiuser Diversity

Zhihang Yi, Queen's University

Il-Min Kim, Queen's University

The Throughput Order of Ad Hoc Networks Employing Network Coding and Broadcasting

Junming Liu, University of Massachusetts

Dennis Goeckel, University of Massachusetts

Donald Towsley, University of Massachusetts

PERFORMANCE OF NETWORK CODING IN AD HOC NETWORKS

Joon-Sang Park, University of California, Los Angeles

Desmond Lun, University of Illinois at Urbana-Champaign

Fabio Soldo, Politecnico di Torino

Mario Gerla, University of California, Los Angeles

Muriel Medard, Massachusetts Institute of Technology

Randomized algorithms for Cross-Layer Network Control

Ness Shroff, Purdue University

Gaurav Sharma, Purdue University

Ravi Mazumdar, University of Waterloo

Enabling Source Channel Separation for Communication Networks: The Uplink Case

Sriram Sridharan, University of Texas Austin

Sriram Vishwanath, University of Texas, Austin

Wei Wu, wwu@ece.utexas.edu

10/24/2006

8:00:00 AM

US-T-I - Sensor Networks: Signal Processing and Communication Perspectives

Qing Zhao

Radar Sensor Networks for Automatic Target Recognition with Delay-Doppler Uncertainty

Qilian Liang, University of Texas at Arlington

Increasing Sensor Measurements to Reduce Detection Complexity in Large-Scale Detection Applications

Yaron Rachlin, Carnegie Mellon University

Narayanaswamy Balakrishnan, Carnegie Mellon University

Rohit Negi, Carnegie Mellon University

John Dolan, Carnegie Mellon University

Pradeep Khosla, Carnegie Mellon University

Power-Efficient Clock Synchronization Using Two-Way Timing Message Exchanges in Wireless Sensor Networks

Kyoung-Lae Noh, Texas A&M University

Qasim Chaudhari, Texas A&M University

Erchin Serpedin, Texas A&M University

Bruce Suter, AFRL, Rome, NY

Application of Gibbs Sampler for Clock Synchronization in RBS-Protocol

Ilkay Sari, Texas A&M University

Erchin Serpedin, Texas A&M University

Bruce Suter, AFRL/IFGC, Rome, NY

Distributed Detection in the Presence of Byzantine Attack in Large Wireless Sensor Networks

Stefano Marano, University of Salerno

Vincenzo Matta, University of Salerno

Lang Tong, Cornell University

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Synchronization in Sensor Networks: An Overview

Brian Sadler, Army Research Lab

Ananthram Swami, Army Research Lab

US-T-K - Multicarrier Spread Spectrum

Dave Matolak

INTERFERENCE SUPPRESSION IN MC-CDMA SYSTEMS BY JOINT TRANSCEIVER DESIGN

Kyoungnam Seo, University of Florida

Liuqing Yang, University of Florida

Subchannel Allocation for Multicarrier CDMA with Adaptive Frequency Hopping and Decorrelating Detection

Tao Jia, Department of Electrical and Computer Engineering, NC State University

Alexandra Duel-Hallen, Department of Electrical and Computer Engineering, NC State University

Asynchronous Multiuser Performance Analysis of Differential Frequency Hopping System Over Rayleigh-fading Channel

Zhi Chen, University of Electronic Science and Technology of China

Anti-Jamming Performance of Spectrally Shaped Generalized MC-DS-SS with Dual Band Combining

Wenhui Xiong, Ohio University

David W. Matolak, Ohio University

Multicarrier symbol design for HF transmissions from Antarctica based on real channel measurements

Ricard Aquilué, Enginyeria La Salle

Pau Bergada, Enginyeria La Salle

Joan Lluís Pijoan, Enginyeria La Salle

Marc Deumal, Enginyeria La Salle

Full-Diversity Spreading Codes for Multicarrier CDMA Systems

Wei Jiang, Beijing University of Posts and Telecommunications

Daoben Li, Beijing University of Posts and Telecommunications

Soft-Chip Combining MIMO Multicarrier CDMA Antijam System

Galib M. M., Georgia Institute of Technology

Gordon Stuber, Georgia Institute of Technology

US-T-M - Analysis of Sensor, Acoustic, Low Power and Low Bandwidth Networks

Steven Grainger

A Robust Power-Aware Routing Algorithm for Wireless Sensor Networks

Zhi Sun, Dept. of Electronic Engineering, Tsinghua Univ.

Rong Yu, Dept. of Electronic Engineering, Tsinghua Univ.

Shunliang Mei, Dept. of Electronic Engineering, Tsinghua Univ.

Performance Modeling and Analysis of the IEEE 802.11 Distributed Coordination Function in Presence of Hidden Stations

Fu-Yi Hung, CAIP Center, ECE Department, Rutgers University

Ivan Marsic, CAIP Center, ECE Department, Rutgers University

Optimal Cluster Size for Underwater Acoustic Sensor Networks

Liang Zhao, University of Texas at Arlington

Qilian Liang, University of Texas at Arlington

Energy-Efficient Geographic Routing in Environmentally Powered Wireless Sensor Networks

Kai Zeng, Worcester Polytechnic Institute

Wenjing Lou, Worcester Polytechnic Institute

Kui Ren, Worcester Polytechnic Institute

Patrick J. Moran, AirSprite Technologies, Inc.

Energy-Efficient TDMA with Quantized Channel State Information

Antonio Marques, Rey Juan Carlos University, Madrid, Spain

Xin Wang, University of Minnesota, USA

Georgios Giannakis, University of Minnesota, USA

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Joint Distributed Compression and Encryption of Correlated Data in Sensor Networks

*Mohamed Haleem, Stevens Institute of Technology
Chetan Mathur, Stevens Institute of Technology
Koduvayoor Subbalakshmi, Stevens Institute of Technology*

Constant Envelope OFDM In Multipath Rayleigh Fading Channels

*Steve Thompson, University of California, San Diego
Michael Gelle, Nova Engineering
James Zeidler, University of California, San Diego
John Proakis, University of California, San Diego*

1:45:00 PM

US-T-J - Sensor Networks: Networking Perspectives

Qing Zhao

Joint Optimization of Relay-Precoders and Decoders with Partial Channel Side Information in Cooperative Networks

*Zhihang Yi, Queen's University
Il-Min Kim, Queen's University*

Distributed Energy-Efficient Scheduling Approach for k-Coverage in Wireless Sensor Networks

*Chinh Vu, Georgia State University
Yingshu Li, Georgia State University
Shan Gao, Georgia State University
Wiwiek Deshmukh, Georgia State University*

Capacity Aware Optimal Activation of Sensor Nodes under Reproduction Distortion Measures

*Izhak Rubin, University of California, Los Angeles
Xiaolong Huang, University of California, Los Angeles*

A Pragmatic Approach to Cooperative Diversity Communication

*Keith Chugg, University Southern California, Communication Sciences Institute
David Lee, University Southern California, Communication Sciences Institute*

Performance of cooperative transmissions in flat fading environment with asynchronous transmitters

*Xiaohua Li, State University of New York at Binghamton
Juite Hwu, State University of New York at Binghamton*

Outage probability of Rician fading relay channels

*Yonglan Zhu, National University of Singapore
Yan Xin, National University of Singapore
Pooi-Yuen Kam, National University of Singapore*

Energy-Efficient Cooperative Communication in Clustered Wireless Sensor Networks

*Zhong Zhou, University of Connecticut
Shengli Zhou, University of Connecticut
Jun-Hong Cui, University of Connecticut
Shuguang Cui, University of Arizona,*

10/25/2006

8:00:00 AM

US-W-K - UWB Communications

Robert Qui

Experimental Results on Multiple-Input Single-Output (MISO) Time Reversal for UWB Systems in an Office Environment

*Chenming Zhou, Tennessee Technological University
Nan Guo, Tennessee Technological University
Robert Qiu, Tennessee Technological University*

Performance Study of a High-Rate Multiuser Transmitted Reference Ultra-Wideband Transceiver

*Zhengyuan Xu, University of California at Riverside
Ananthram Swami, Army Research Laboratory
Brian Sadler, Army Research Laboratory*

Secure spread spectrum communications using ultrawideband random

Note that papers are NOT listed in presentation order.

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noise signals

Jack Chuang, The Pennsylvania State University
Matthew DeMay, The Pennsylvania State University
Ram Narayanan, The Pennsylvania State University

Optimum Integration Time for UWB Transmitted Reference Schemes and Energy Detector Receivers

Majid Nemati, USC
Urbashi Mitra, USC
Robert Scholtz, USC

AWGN Performance of Superorthogonal Convolutional Codes

Brian Butler, QUALCOMM, Inc. & University of Calif at San Diego

Joint Acquisition/Channel Estimation for UWB Communications in the Presence of Narrow-band Interference

Matteo Sabattini, UCSD
Elias Masry, UCSD
Laurence B. Milstein, UCSD

Performance Comparison Between MB-OFDM and DS-UWB in Interfered Multipath Channels

Harri Viittala, Centre for Wireless Communications
Matti Hämäläinen, Centre for Wireless Communications
Jari Linatti, Centre for Wireless Communications

US-W-M - Implementation and Performance of Voice over IP

Darwen Rau and Jay Yoo

The Selection of MELP Parameters to be Utilized with Joint Source-Channel Decoding

Sami Siltala, Nokia, Finland
Ari Tenhunen, Centre for Wireless Communications, University of Oulu

RADAR - A Novel Admission Control and Handoff Management Scheme for Multimedia LEO Satellite Networks

Stephan Olariu, Old Dominion University
Mona Rizvi, Norfolk State University
Syed Rizvi, Old Dominion University

Performance Evaluation of SIP-based Session Establishment over DSR-routed MANETs

Xiaoyan Zhang, Beijing University of Posts and Telecommunications
Xiaofeng Du, Beijing University of Posts and Telecommunications
Zygmunt Haas, Cornell University

An Adaptive Jitter Buffer Play-Out Scheme to Improve VoIP Quality in Wireless Networks

Kevin McNeill, BAE Systems
Mingkuan Liu, PhD Candidate, Dept. of Electrical & Computer Eng., University of Arizona
Jeffrey Rodriguez, Department of Electrical & Computer Engineering, The University of Arizona, Tucson AZ

Packet Detection for On-Board Switching Broadband Satellite IP Networks

Jia Li, Oakland University
John Liu, Oakland University

Explicit Congestion Control for Efficient Reliable Transport in IP-based Tactical Networks

Akber Qureshi, Boeing
Jonathan Cham, Boeing
Wayne Howe, Boeing

US-W-O - Channel Equalization and Iterative Decoding

Bill Kasch

Constrained Decision Feedback Equalizers for Reduced Error Propagation: Theoretical Results

Christopher Pladdy, The MITRE Corporation

A non-isotropic model for mobile-to-mobile fading channel simulation

Rosa Zheng, University of Missouri-Rolla

A Blind Decision Feedback Equalizer for QAM Signals based on the Constant Modulus Algorithm

Antoinette Beasley, Morgan State University

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Arlene Cole-Rhodes, Morgan State University

Packet-level iterative detection for SFH communications with Reed-Solomon coding in partial-band interference

*Harish Ramchandran, Clemson University
Daniel Noneaker, Clemson University*

Iterative CDMA Receiver with EM Channel Estimation and Turbo Decoding

*Don Torrieri, US Army Research Laboratory
Eser Ustunel, Wichita State University
Hyuck Kwon, Wichita State University
Seunghyun Min, Samsung Electronics
Dong Kang, Samsung Electronics*

Interference Mitigation in IEEE 802.11G OFDM Systems with Smart Antennas and Tapped Delay Lines

*Ayham Al-Banna, Illinois Institute of Technology
Joseph LoCicero, Illinois Institute of Technology
Donald Ucci, Illinois Institute of Technology*

Frequency-Domain Turbo Equalization for Single Carrier Mobile Broadband Systems

*Liang Dong, Western Michigan University
Yao Zhao, Western Michigan University*

1:45:00 PM

US-W-L - UWB Systems and Networks

Robert Qiu

Physical Modeling and Template Design for UWB Channels with Per-Path Distortion

*Li Ma, ECE dept., NCSU
Hans Hallen, Physics Department, NCSU
Alexandra Duel-hallen, ECE dept., NCSU*

UWB Channel Measurements and Modeling for Accurate Indoor Localization

*Bardia Alavi, Worcester Polytechnic Institute
Nayef Alsindi, Worcester Polytechnic Institute
Kaveh Pahlavan, Worcester Polytechnic Institute*

Determination of the existence of LoS blockage and its application to UWB localization

*Joon-Yong Lee, Handong University
Yung-Hoon Jo, Core Logic, Inc.
Shin-Hoo Kang, Handong University
A-Young Kang, Handong University
Dong-Heon Ha, Handong University
Sung-Jun Yoon, University of Pittsburgh*

Packet-Level Interference Estimation and Adaptive Rate Control in Ultra-Wideband (UWB) Radio

*William Lovelace, North Carolina A&T University
Keith Townsend, NC State University
Robert Ulman, US Army Research Office*

Channel Characterization for Intra-Vehicle Ultra-Wideband Sensor Networks

*Jia Li, Oakland University
Timothy Talty, General Motors*

Performance Analysis of Multiple Antenna DS CDMA UWB Systems with Noisy Channel Estimates and Narrow-band Interference

*Preeti nagvanshi, University of California San Diego
Elias Masry, University of California San Diego
Laurence Milstein, University of California San Diego*

A UWB Network Using Multiple Delay Capture Enabled by Time Reversal

*Nan Guo, Tennessee Tech. Univ.
Robert Qiu, Tennessee Tech. Univ.
Brian Sadler, Army Research Laboratory*

US-W-N - Techniques in Coding and Modulation

George Elmasry

On Space-Time Block Codes from Coordinate Interleaved Orthogonal Designs

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Dung Dao, University of Alberta
Chintha Tellambura, University of Alberta

Efficient Implementation and Performance Enhancement of the Time-Varying Phase Trellis in CPM

Jagadish Venkataraman, University of Notre Dame
Oliver Collins, University of Notre Dame

Rapid Acquisition of Gold Codes and Related Sequences using Iterative Message Passing on Redundant Graphical Models

Fabio Principe, Dipartimento di Ingegneria dell'Informazione - University of Pisa
Keith M. Chugg, Communication Sciences Institute, Electrical Engineering Dept. - University of Southern California
Marco Luise, Dipartimento di Ingegneria dell'Informazione - University of Pisa

Regular {4,8} LDPC Codes and Their Low Error Floors

Chad Cole, Univ of Virginia
Steve Wilson, Univ of Virginia
Tom Giallorenzi, L-3 Comm
Eric Hall, L-3 Comm

Irregular Designs for Two-State Systematic with Serially Concatenated Parity Codes

Jordan Melzer, University of Southern California
Keith Chugg, University of Southern California

Filter-Based Turbo Equalization with 2x16QAM Trellis Coded Modulation and Partially Iterative Channel Tracking

Asgeir Nysaeter, Kongsberg Defence and Aerospace
Roald Otnes, Norwegian Defence Research Establishment

Protograph LDPC Codes over Burst Erasure Channels

Dariusz Divsalar, Jet Propulsion Laboratory
Sam Dolinar, Jet Propulsion Laboratory
Christopher Jones, Jet Propulsion Laboratory

US-W-P - Bandwidth Efficient Modulations

Mostofa Howlader

A New Piece-Wise-Linear SBPSK Modulation Waveform with Robust Adjacent Channel Emissions for UHF SATCOM Channels

Madjid Belkerdid, Mnemonics Inc
TJ Mears, II, Mnemonics Inc

Performance of Noncoherent mMCSK-mMFSK Modulation in Rayleigh Fading Channel

Ari Pouttu, University of Oulu
Harri Saarnisaari, University of Oulu
Savo Glisic, University of Oulu

A New Finite Series Representation for Continuous Phase Modulation

Marilynn Wylie-Green, Nokia

Spectrally Efficient CPM Waveforms for Narrowband Tactical Communications in Frequency Hopped Networks.

Colin Brown, Communications Research Centre
Phil Vigneron, Communications Research Centre

Reduced Complexity Detection of Shaped Offset QPSK

Tom Nelson, Brigham Young University
Michael Rice, Brigham Young University

Performance analysis of quadrature amplitude modulated signals received over a slow, flat, rician fading channel

Frank Kragh, Naval Postgraduate School
Clark Robertson, Naval Postgraduate School

U050 - Mobile and Wireless Technology (MAWT)

10/23/2006

8:00:00 AM

US-M-G - Commercial Wireless Networking: WiMAX Broadband Wireless

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

William Kasch

Jamming resistant architecture for WiMAX mesh network

Boris Makarevitch, Helsinki University of Technology

Operational Considerations of Deploying WiMAX Technology as a Last-Mile Tactical Communication System

Pamela Hemmings, Booz Allen Hamilton

Bruce Bennett, Defense Information Systems Agency

Performance Improvement of IEEE802.16-2004 System in Jamming Environment via Link Adaptation

Juan Li, Communications Laboratory, Helsinki University of Technology

Sven-Gustav Häggman, Communications Laboratory, Helsinki University of Technology

Security of IEEE 802.16 in Mesh Mode

Yun Zhou, University of Florida

Yuguang Fang, University of Florida

An Integrated QoS-Aware Mobility Architecture for Seamless Handover in IEEE 802.16e Mobile BWA Networks

Hui-Juan Yao, Beijing University of Posts and Telecommunications

Geng-Sheng (G.S.) KUO, National Chengchi University

A PMP-Friendly Mesh Approach for WiMAX/IEEE 802.16TM

Matthew Sherman, BAE Systems

Keith Conner, BAE Systems

Phong Khuu, BAE Systems

Kevin McNeill, BAE Systems

WiMax - Potential Commercial-Off-The-Shelf (COTS) Solution for Tactical Mobile Mesh Communications

MAJOR Bryon Hartzog, US Army

Dr. Timothy X. Brown, Associate Professor, Associate Faculty Director, University of Colorado, Boulder

US-M-I - MIMO I

Roger Hammons

Antenna Selection and Power Control for Limited Feedback MIMO Systems with Successive Interference Cancellation

Yingwei Yao, University of Illinois, Chicago

Rashid Ansari, University of Illinois, Chicago

Adaptive Modulation Using Differential STBC in Rayleigh Fading Channel

Chang Byun, Rensselaer Polytechnic Institute

Gary Saulnier, Rensselaer Polytechnic Institute

Design of Nonbinary LDPC Codes over GF(q) for Multiple-Antenna Transmission

Ronghui Peng, Dept. of ECE, University of Utah

Rong-Rong Chen, Dept. of ECE, University of Utah

Cooperative Multiple Trellis Coded Modulation

Jialing Li, Polytechnic University

Andrej Stefanov, Polytechnic University

MIMO Systems and Prototype for Military Communications

Babak Daneshrad, UCLA EE Dept. and Silvus Communication Systems

Weijun Zhu, Silvus Communication Systems, Inc.

Space-Time Block Codes for Quasi-synchronous Cooperative Diversity

Roger Hammons, JHU/APL

Ross Conklin, JHU/APL

Efficient Space-Time Codes from Cyclic Division Algebras

P Vijay Kumar, University of Southern California

Petros Elia, University of Southern California

K Vinodh, Indian Institute of Science

US-M-K - Tactical Ad-Hoc Mobile Networks (Part 1 - Network Protocols)

Jae Kim

FH-Code Phase Synchronization in a Wireless Multi-Hop FH/DSSS Adhoc Network

Teemu Vanninen, Centre for Wireless Communications

Harri Saarnisaari, Centre for Wireless Communications

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Matti Raustia, Centre for Wireless Communications
Timo Koskela, Centre for Wireless Communications

MANETS: Performance Analysis and Management

Latha Kant, Telcordia Technologies
Stephanie Demers, Telcordia Technologies

Evaluating and Improving TCP with Adaptive Transmission and Routing Protocols in Frequency-Hop Wireless Ad Hoc Networks

Yu Zhou, Clemson University
Kuang-Ching Wang, Clemson University

Routing Exploiting Multiple Heterogeneous Wireless Interfaces: A TCP Performance Study

Wonyong Yoon, UIUC
Jungmin So, UIUC
Nitin Vaidya, UIUC

Toward New and Better Protocols for Mobile Ad-Hoc Networks

J Christopher Ramming, DARPA

Robust Ad Hoc Routing for Lossy Wireless Environment

Jiwei Chen, UCLA
Mario Gerla, UCLA
Yeng-Zhong Lee, UCLA
He Zhou, NJU
Yantai Shu, NJU

A coding-based routing for scalable MANET

Bo Ryu, San Diego Research Center, Inc.
Ajay Gummalla, Consultant
Zhensheng Zhang, San Diego Research Center, Inc.
Vivek Gulati, San Diego Research Center, Inc.
David Tang, San Diego Research Center, Inc.
Lianping Ma, SDRC
Joe Hunag, SDRC
Hua Zhu, SDRC
Barbara Sorensen, Air Force Research Laboratory

US-M-M - Cross Layer Solutions in Mobile Ad-Hoc Networks

Bharat Doshi

An error control scheme with virtually segmented packets for wireless multicast protocols

Weimin Zhang, Defence Science and Technology Organisation
Dahong Tang, Defence Science and Technology Organisation
Julija Tovirac, BAE Systems

Dynamic Channel Allocation for Dynamic Spectrum Use in Wireless Sensor Networks

Richard Cagley, Toyon Research Corp
Scott McNally, Toyon Research Corp
Michael Wiatt, Toyon Research Corp

Adaptation of Modulation, Coding, and Power for High-Rate Direct-Sequence Spread Spectrum

Michael Pursley, Clemson University
Thomas Royster, Clemson University

PULSENet Abstract (Predictive Universal Layered Sensor Exploitation Network)

Sean Thompson, Northrop Grumman

Scalable Multicasting in Energy Aware Mobile Backbone Based Wireless Ad Hoc Networks

Choo-Chin Tan, University of California Los Angeles
Izhak Rubin, University of California Los Angeles

A Packet Loss Reduction Scheduling Scheme With Cross-layer Design for OFDM Downlinks

Yunjian Xu, Y.Xu & student
Zhigang Cao, Z.Cao & Professor

A Solution to Hidden Terminal Problem Over A Single Channel In Wireless Ad Hoc Networks

Hongqiang Zhai, University of Florida
Yuguang Fang, University of Florida

Note that papers are NOT listed in presentation order.

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US-M-S - MAC Design for Mobile Ad-Hoc Networks

Jon Ward

Distributed Power and Scheduling Management for Mobile Ad Hoc Networks with Delay Constraints

Laurence Milstein, ECE Dept., Univ of California San Diego
Qi Qu, ECE Dept., Univ of California San Diego
Dhadesugoor Vaman, EE Dept., Prairie View A&M University

A MAC Protocol for Tactical Underwater Surveillance Networks

Turgay Karlidere, Turkish Naval Academy
Erdal Cayirci, University of Stavanger

C³F²-DMAC: Clustered Contention and Contention Free Fully Decentralized MAC for the 3M Environment: Real-Time Multimedia, Multi-Hop and Mobile

Osama Farrag, Johns Hopkins University Applied Physics Lab
Lotfi Benmohamed, Johns Hopkins University Applied Physics Lab
William D'Amico, Johns Hopkins University Applied Physics Lab

Adaptive Multirate Auto Rate Fallback Protocol for IEEE 802.11 WLANs

Yong Xi, National University of Defense Technology
Byung-Seo Kim, Motorola Ltd
Ji-bo Wei, National University of Defense Technology
Qing-Yan Huang, National University of Defense Technology

A Multi-Band Random Access Messaging Protocol

Nick Van Stralen, GE Global Research
Orhan Imer, GE Global Research
Suresh Iyer, Lockheed Martin
Scott Evans, GE Global Research
Robert Mitchell, GE Global Research

A Directional MAC Protocol for Ad Hoc Networks

Pan Li, University of Florida
Hongqiang Zhai, University of Florida
Yuguang Fang, University of Florida

An adaptive-transmission, cross-layer protocol with selective MAC layer spatial reuse capabilities for ad hoc networks

Steven Boyd, Clemson University
Michael Pursley, Clemson University
Harlan Russell, Clemson University

US-M-U - Analysis and Evaluation of Wireless Systems

Didem Kivanc-Tureli

Performance of Wideband Digital Receivers in Jamming

Frederick Block, MIT Lincoln Laboratory

A Channel-Change Game for Multiple Interfering Cognitive Wireless Networks

Roli Wendorf, Pace University
Howard Blum, Pace University

Bluetooth scatternet formation performance: simulations vs testbeds.

Andrea Vitaletti, DIS - University of Rome "La Sapienza"
Chiara Petrioli, DI - University of Rome "La Sapienza"
Cristiano Pierascenzi, DI - University of Rome "La Sapienza"

ROBUST INTERFERENCE SUPPRESSION IN SPREAD SPECTRUM SYSTEMS USING LOCALLY OPTIMUM DETECTION

Arnab Roy, Penn State University
John Doherty, Penn State University

Spectrum Characterization for Opportunistic Cognitive Radio Systems

Tevfik Yucek, University of South Florida
Huseyin Arslan, University of South Florida

Iterative Detection and Estimation for Multiple Access Interference Mitigation in Asynchronous Frequency-Hop Spread Spectrum

Xing Tan, University of Florida
John Shea, University of Florida

Noise Phase Shift Keying for Secure Multiuser Code

Stevan Berber, The University of Auckland

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

1:45:00 PM

US-M-H - Commercial Wireless Networking: 802.11 Wireless Local Area Networks

Jack Burbank

Entropy-Based Spectral Processing on the 802.11a Waveform

Christopher Rehm, USAF
Michael Temple, USAF
Richard Raines, USAF
Robert Mills, USAF

Coexistence Mechanism Using Dynamic Fragmentation for Interference Mitigation between Wi-Fi and Bluetooth

C.-C. Jay Kuo, EE USC
Alex C.-C. Hsu, EE USC
David S. L. Wei, Dept. of Computer and Information Sciences, Fordham University

Enhancing IEEE 802.11 Wireless Networks with Directional Antennas and Multiple Receivers

Jonathan Agre, Fujitsu Laboratories of America
Chenxi Zhu, Fujitsu Laboratories of America

Effect of Jammer on the Performance of OFDM In the Presence of Nonlinearity In Rayleigh Fading Channel with Application to 802.11n WLAN

David Chi, University of California, San Diego
Pankaj Das, University of California, San Diego

Military Inter-Vehicle Communication with Message Priority using IEEE 802.11e

Chakkaphong Suthaputchakun, University of Massachusetts, Amherst
Aura Ganz, University of Massachusetts, Amherst

Characterization of an Unintentional Wi-Fi Interference Device-the Residential Microwave Oven

Tanim Taher, Illinois Institute of Technology
Dr Donald Ucci, Illinois Institute of Technology
Dr Joseph LoCicero, Illinois Institute of Technology
Ayham Albanna, Illinois Institute of Technology

Parallel Use of Multiple Channels in Multi-hop 802.11 Wireless Networks

Chen-Mou Cheng, Harvard University
Pai-Hsiang Hsiao, Harvard University
H. T. Kung, Harvard University
Dario Vlah, Harvard University

US-M-J - MIMO II

Andrej Stefanov

The Use of Ray Tracing Models to Predict MIMO Performance in Urban Environments

Carmen Cerasoli, The MITRE Corporation

Joint Channel Estimation and Detection for MIMO Systems: A SAGE-Based Approach

The-Hanh Pham, National University of Singapore
Arumugam Nallanathan, National University of Singapore
Ying-Chang Liang, Institute for Infocomm Research (I2R), Singapore

Uplink Multiuser MIMO Transceiver Design with Transmitting Beamforming Under Power Constraints

Songnan Xi, Purdue University, School of Electrical and Computer Engineering
Michael Zoltowski, Purdue University, School of Electrical and Computer Engineering

Reduced Complexity Stack-Based Limited Tree Searching Algorithm for V-BLAST Systems

Namjeong Lee, Information and Communications University
Keonkook Lee, Information and Communications University
Jongsub Cha, Information and Communications University
Joonhyuk Kang, Information and Communications University
Gyetae Gil, Professional Research Group, Advanced Technology Laboratory, KT

Adaptive Reduced-Rank MIMO Decoder for Military Communications

Patrick Honan, Digital Design Solutions, Inc./Stevens Institute Of Technology
Zhongren Cao, University of California, San Diego
Uf Tureli, Stevens Institute of Technology

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Simulation Models for MIMO Mobile-to-Mobile Channels

Alenka Zajic, Georgia Institute of Technology
Gordon Stuber, Georgia Institute of Technology

Worst-case Optimized V-BLAST Receiver Design for Imperfect MIMO Channels

Jiansong Chen, USC
Xiaoli Yu, USC

US-M-L - Tactical Ad-Hoc Mobile Networks (Part 2 - System Applications)

Jae Kim

Cooperative Multi-Agent Systems in Mobile Ad Hoc Networks

Joseph Macker, NRL
William Chao, NRL
Myriam Abramson, NRL
Ian Downard, NRL

Comparison of Proposed OSPF MANET Extensions

Phillip Spagnolo, Boeing Company
Thomas Henderson, Boeing Company

Mitigating Starvation in Wireless Sensor Networks

Injong Rhee, North Carolina State University
Ajit Warriar, North Carolina State University
Jeongki Min, North Carolina State University

Field Experimentation of COTS-Based UAV Networking

Dan Hague, Air Force Research Laboratory
H. T. Kung, Harvard University
Bruce Suter, Air Force Research Laboratory

Adaptation and Integration across the Layers of Self Organizing Wireless Networks to Achieve Performance and Scalability

Preston Marshall, DARPA

UAV Assisted Disruption Tolerant Routing

Michael Le, University of California, Los Angeles
Joon-Sang Park, University of California, Los Angeles
Mario Gerla, University of California, Los Angeles

On how to Circumvent the MANET Scalability Curse

Zygmunt Haas, Cornell University
Stuart Milner, University of Maryland at College Park
Chris Davis, University of Maryland at College Park

US-M-T - Ad Hoc Networking Quality of Service

Kirk Chang

Design of a Routing Protocol that Exploits the Availability of Directional Antennas in Wireless Ad Hoc Networks

Arvind Swaminathan, Clemson University
Daniel Noneaker, Clemson University
Harlan Russell, Clemson University

Impact of topology control on end to end performance for directional MANETs

Zhensheng Zhang, SDRC
Zhuochuan Huang, SDRC
Bo Ryu, SDRC

A robust access protocol for wireless sensor networks

Chung Shue Chen, LORIA-CNRS, Rue du Jardin Botanique, 54600 Villers Les Nancy, France
Wing Shing Wong, The Chinese University of Hong Kong

ALBA: an Adaptive Load-Balanced Algorithm for Geographic Forwarding in Wireless Sensor Networks

Paolo Casari, University of Padova
Michele Nati, University of Rome
Chiara Petrioli, University of Rome
Michele Zorzi, University of Padova

MEACA: Mobility and Energy Aware Clustering Algorithm for Constructing Stable MANETs

Yi Xu, ECE Dept., North Carolina State University
Wenye Wang, ECE Dept., North Carolina State University

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Joint Rate Adaptation and Channel-Adaptive Relaying in 802.11 Ad Hoc Networks

*Michael Souryal, NIST
Nader Moayeri, NIST*

Making proportional bandwidth guarantees in IEEE 802.11e enhanced distributed channel access

*Ye Ge, Ohio State University
Jennifer Hou, University of Illinois at Urbana Champaign*

10/24/2006

8:00:00 AM

US-T-A - Commercial Wireless Networking: Cellular, Broadband, and Personal Area Networks

Jack Burbank

Code Mapping Scheme for High Rate Transmissions in the IEEE 802.15.4b 915 MHz Band

*Manjeet Singh, Institute for Infocomm Research
Zhongding Lei, Institute for Infocomm Research
Francois Chin, Institute for Infocomm Research
YS Kwok, Institute for Infocomm Research*

WiBro usage scenarios and requirements in tactical environment

*Jae Soong Lee, KAIST
Young Serk Shim, KAIST
Hwang Soo Lee, KAIST*

Performance Comparison between Turbo Code and Rate-Compatible LDPC Code for Evolved UTRA Downlink OFDM Radio Access

*Naoto Ohkubo, NTT DoCoMo, Inc
Nobuhiko Miki, NTT DoCoMo, Inc
Yoshihisa Kishiyama, NTT DoCoMo, Inc
Kenichi Higuchi, NTT DoCoMo, Inc
Mamoru Sawahashi, Musashi Institute of Technology*

Peak-To-Average Power Ratio Optimization of Hybrid OFDMA and Pre-Coded CDMA Reverse Link

*Shupeng Li, Bell Labs, Lucent Technologies
Sudhir Ramakrishna, Bell Labs, Lucent Technologies
Ashok Rudrapatna, Bell Labs, Lucent Technologies
Nirwan Ansari, NJIT*

Initial Ranging for WiMAX (802.16e) OFDMA

*Hisham Mahmoud, University of South Florida
Huseyin Arslan, University of South Florida
Mehmet Ozdemir, Logus Broadband Wireless Solutions*

Bluetooth Scatternet Formation and Scheduling: An Integrated Solution

*Stefano Basagni, Northeastern University
Maurizio A. Nanni, University of Roma "La Sapienza"
Chiara Petrioli, University of Roma "La Sapienza"*

1:45:00 PM

US-T-H - Seamless Soft Handoff Protocols and QoS Support in MANETS

Zhensheng Zhang

A Study on the Call Admission and Preemption Control Algorithms in Secure Wireless Ad Hoc Networks

*Kirk Chang, Telcordia
Keith Kim, Telcordia
Sunil Samtani, Telcordia*

Adaptive Channel Scanning for IEEE 802.16e

*Nada Golmie, NIST
Richard Rouil, NIST*

An Integrated Framework for Seamless Soft Handoff in Mobile Ad Hoc Networks

*Jason Li, Intelligent Automation, Inc.
Song Luo, Intelligent Automation, Inc.*

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Mitesh Patel, US Army CECOM
Aristides Staikos, US Army CECOM
Mario Gerla, University of California, Los Angeles
Subir Das, Telcordia Technologies, Inc.
Tony McAuley, Telcordia Technologies, Inc.

Business Continuity Planning for disasters is Just Good Planning
William Roberts, EMC

**Concurrent Multipath Transfer Using Transport Layer Multihoming:
Performance during Network Failures**
Preethi Natarajan, University of Delaware
Janardhan Iyengar, Connecticut College
Paul Amer, University of Delaware
Randall Stewart, Cisco Systems

**Tuning Dynamically Routed Internet Protocol Networks To Achieve
Controlled And Predictable Failover During Link Instability**
Chris Williams, SAIC

A System for Calibrating and Validating Military Ad-Hoc Network Models
Ranga Reddy, Space & Terrestrial Communications Directorate, Ft. Monmouth, NJ
David Green, SRI International

US-T-L - Cross-Layer Issues in Ad-Hoc and Sensor Networks - I

Jeff Wieselthier

**Orthogonal Waveform Design and Performance Analysis in Radar Sensor
Networks**

Jing Liang, The University of Texas at Arlington
Qilian Liang, The University of Texas at Arlington

**Covert Netted Wireless Noise Radar Sensor: OFDMA-based Communication
Architecture**

Shrawan Surender, The Pennsylvania State University
Ram Narayanan, The Pennsylvania State University

**A Cross-Layer Game Theoretic Solution for Interference Mitigation in
Wireless Ad Hoc Networks.**

Hasan Mahmood, Stevens Institute of Technology
Cristina Comaniciu, Stevens Institute of Technology

A Game-Theoretic Look at Throughput and Stability in Random Access

Yalin Sagduyu, University of Maryland, College Park
Anthony Ephremides, University of Maryland, College Park

**Accurate Capture Models and their Impact on Random Access in Multiple-
Destination Networks**

Gam Nguyen, Naval Research Laboratory
Jeffrey Wieselthier, Naval Research Laboratory
Anthony Ephremides, University of Maryland

**The effect of frequency offset on the multiple antennas receiver initiated
busy tone medium access (MARI-BTMA) protocol**

Didem Kivanc-Tureli, Stevens Institute of Technology
Uf Tureli, Stevens Institute of Technology
Nehaben Patel, Stevens Institute of Technology

10/25/2006

8:00:00 AM

US-W-E - Cognitive Wireless Communications and Sensing in Networks I

Akbar Sayeed

Group-Mobility-Aware Spectrum Management for Future Digital Battlefields

Haitao Zheng, UC Santa Barbara
Juwei Shi, BUPT
Lili Cao, Shanghai Jiaotong Univ.

Note that papers are NOT listed in presentation order.

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Performance of Secondary Radios in Spectrum Sharing with Prioritized Primary Access

Pak Kay Tang, Mr
Yong Huat Chew, Dr
Michael Ong, Dr
M.K Haldar, Prof.

A Measurement-Based Model for Dynamic Spectrum Access in WLAN Channels

Stefan Geirhofer, Cornell University
Lang Tong, Cornell University
Brian M. Sadler, Army Research Laboratory

Distributed cognitive MAC for energy-constrained opportunistic spectrum access

Yunxia Chen, University of California, Davis
Qing Zhao, University of California, Davis
Ananthram Swami, Army Research Laboratory

OFDM for Cooperative Networking with Limited Channel State Information

Leonard Cimini, University of Delaware
Bo Gui, University of Delaware
Lin Dai, University of Delaware

Random Access for Variable Rate Links

Jasvinder Singh, WINLAB, Rutgers University
Chandrasekharan Raman, WINLAB, Rutgers University
Roy Yates, WINLAB, Rutgers University
Narayan Mandayam, WINLAB, Rutgers University

US-W-G - Cognitive Wireless Systems: Theory and Implementation

Danijela Cabric

Cyclostationarity-based blind classification of joint analog and digital modulations

Octavia Dobre, Memorial University of Newfoundland
Ali Abdi, New Jersey Institute of Technology
Yehekel Bar-Ness, New Jersey Institute of Technology
Wei Su, RDECOM, New Jersey

Multiplexing Analysis for Dynamic Spectrum Allocation

Kavitha Chandra, University of Massachusetts Lowell
Sushma Keshavamurthy, University of Massachusetts Lowell

A Predictive Model for Cognitive Radio

Troy Weingart, University of Colorado at Boulder
Douglas C. Sicker, University of Colorado at Boulder
Dirk Grunwald, University of Colorado at Boulder

Cognitive Radio Platform Development for Interoperability

David Scaperoth, Center for Wireless Telecommunications, Virginia Tech
Bin Le, Center for Wireless Telecommunications, Virginia Tech
Tom Rondeau, Center for Wireless Telecommunications, Virginia Tech
Steve Harrison, Innovative Wireless Technologies
David Maldonado, Center for Wireless Telecommunications, Virginia Tech
Charles Bostian, Center for Wireless Telecommunications, Virginia Tech

Global Optimization for Multiple Transmitter Localization

Jill Nelson, George Mason University
Maya Gupta, University of Washington
Megan Hazen, University of Washington

An Architecture For Policy-Based Cognitive Tactical Networking

Grit Denker, SRI International
Reza Ghanadan, BAE Systems Inc.
Carolyn Talcott, SRI International
Srikanta Kumar, BAE Systems Inc.

Spectrum sensing with Forward Methods

Janne Lehtomäki, Centre for Wireless Communications (CWC), University of Oulu
Johanna Vartiainen, Centre for Wireless Communications (CWC), University of Oulu
Markku Juntti, Centre for Wireless Communications (CWC), University of Oulu
Harri Saarnisaari, Centre for Wireless Communications (CWC), University of Oulu

US-W-S - Specialized MANET Technologies

Randy Coleburn

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

**Integrating Directional Links with Omni-Directional Tactical MANET Stack:
An Experimental Analysis**

Homayoun Yousefi'zadeh, Boeing
Titus Pottinger, Boeing
Alex White, Agile Communications

A Multi-Group Coordination Mobility Model for Ad Hoc Networks

*Kejun Wu, Institute of Communication Engineering, University of Science and
Technology, PLA*
Quan Yu, The 61st Research Institute of General Staff Headquarters

A Tiered Geocast Protocol for Long Range Mobile Ad Hoc Networking

Robert Hall, AT&T Labs Research
Josh Auzins, Scientific Research Corporation

**Node Density-Based Adaptive Routing Scheme for Disruption Tolerant
Networks**

Mooi Choo Chuah, Lehigh University
Peng Yang, Lehigh University

Integrated Buffer and Route Management in a DTN with Message Ferry

Mooi Choo Chuah, Lehigh University
Wen-Bin Ma, Lehigh University

**A Novel Swarm Intelligence based Routing Scheme for MANET using
Weighted Pheromone Paths**

*Seemanti Saha, Department of Electronics and Electrical Communication
Engineering, IIT Kharagpur*
*S.S. Pathak, Department of Electronics and Electrical Communication Engineering,
IIT Kharagpur*

US-W-W - Wireless Networks: Fault Tolerance and Routing

Adarsh Sethi

An Entity Stability Measure for Mobile Ad Hoc Networks

Moussa Ayyash, Illinois Institute of Technology
Donald Ucci, Illinois Institute of Technology
Khalid Alzoubi, Saint Xavier University

Routing for Data Delivery in Dynamic Network Topologies

Padmavathi Mundur, University of Maryland Baltimore County
Matt Seligman, Laboratory for Telecommunications Sciences
Sookyong Lee, University of Maryland Baltimore County

Integration: Reaching Consensus in Low-Diameter Wireless Networks

Stephan Olariu, Old Dominion University
Jeff Nickerson, Stevens Institute of Technology

**An End-to-End Transport Protocol for Extreme Wireless Network
Environments**

Vijaynarayanan Subramanian, Rensselaer Polytechnic Institute
Shivkumar Kalyanaraman, Rensselaer Polytechnic Institute
K.K. Ramakrishnan, AT&T Labs Research

Resilient and Scalable Wireless Sensor Networks

Weilian Su, Naval Postgraduate School
Tri T. Ha, Naval Postgraduate School
Kim Boon Chia, Naval Postgraduate School

**Fault-Models in Wireless Communication: Towards Survivable Ad Hoc
Networks**

Axel Krings, University of Idaho

A Hierarchical Anonymous Routing Scheme for Mobile Ad-Hoc Networks

Jun Liu, University of Alabama
Xiaoyan Hong, University of Alabama
Jiejun Kong, University of California, Los Angeles
Qunwei Zheng, University of Alabama
Ning Hu, University of Alabama
Phillip Bradford, University of Alabama

1:45:00 PM

US-W-F - Cognitive Wireless Communications and Sensing in Networks II

Babak Daneshard

A Multi-channel MAC For Opportunistic Spectrum Sharing in Cognitive

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Networks

Amitabh Mishra, Virginia Tech

Performance of Distributed Dynamic Frequency Selection Schemes

James Neel, MPRG, Virginia Tech

Jeffrey Reed, MPRG, Virginia Tech

Strategies and Insights into SCA Compliant Waveform Application Development

Scott Dyer, The MITRE Corporation

Yun Zhang, The MITRE Corporation

Nick Bulat, The MITRE Corporation

Application of Cognitive Radio Technology to Legacy Military Waveforms in a JTRS (Joint Tactical Radio System) Radio

Richard Hinman, Air Force Research Laboratory

Spectrum Sensing Measurements of Pilot, Energy, and Collaborative Detection

Danijela Cabric, BWRC

Artem Tkachenko, BWRC

Robert Brodersen, BWRC

Enabling High Performance Wireless Communication Systems Using Reconfigurable Antennas

Gregory Huff, University of Illinois

Tyrone Roach, University of Illinois

Jennifer Bernhard, University of Illinois

US-W-H - Cross-Layer Issues in Ad-Hoc and Sensor Networks - II

Jeff Wieselthier

Cross-layer Optimization of OLSR with a Clustering MAC

Yung-Sze Gan, Thales Technology Centre Singapore

Sandrine Masson, Thales Land & Joint - France

Gregoire Guibe, Thales Land & Joint - France

Bertrand Marin, Thales Land & Joint - France

Christophe Le Martret, Thales Lan & Joint - France

Lightweight Robust Routing in Mobile Wireless Sensor Networks

Xiaoxia Huang, University of Florida

Hongqiang Zhai, University of Florida

Yuguang Fang, University of Florida

Cooperative Geographic Routing in Wireless Sensor Networks

Weiyang Ge, Dept. of Electrical Engineering, Arizona State University

Junshan Zhang, Dept. of Electrical Engineering, Arizona State University

Guoliang Xue, Dept. of Computer Science and Engineering, Arizona State University

Path Selection and Rate Allocation for Video Streaming in Multihop Wireless Networks

Sastry Kompella, Virginia Tech

Shiwen Mao, Virginia Tech

Y. Thomas Hou, Virginia Tech

Hanif D. Sherali, Virginia Tech

A Cross-Layer Communications Framework for Tactical Environments

Marco Carvalho, IHMC

Niranjan Suri, IHMC

Marco Arguedas, IHMC

Matteo Rebeschini, IHMC

Maggie Breedy, IHMC

A multi-criteria receiver-side relay election approach in wireless ad hoc networks

Komlan Egoh, New Jersey Institute of Technology

Swades De, New Jersey Institute of Technology

Cross-Layer Optimization for UWB-based Ad Hoc Networks

Yi Shi, Virginia Tech

Thomas Hou, Virginia Tech

Hanif Sherali, Virginia Tech

Sastry Kompella, Naval Research Laboratory

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U060 - Radio Systems and Technologies (RSAT)

10/24/2006

8:00:00 AM

US-T-U - Software Defined Radio

Tony Moldovan

Toward a Cognitive Radio Architecture: Integrating Knowledge Representation with Software Defined Radio Technologies

J.D. Poston, The MITRE Corporation

A. Ginsberg, The MITRE Corporation

W. Horne, The MITRE Corporation

Subcarrier Power Adjustment Technique for Peak-to-Average Power Reduction of OFDM Systems

Rakesh Rajbanshi, ITTC, University of Kansas

Alexander Wyglinski, ITTC, University of Kansas

Gary Minden, ITTC, University of Kansas

Games Theory and Software Defined Radios

Dr. Steven Silverman, Raytheon

SCA Reference Waveform Implementation: Best SDR Practices

Leigh McLeod, Mercury Computer Systems

A. Tansu Demirbilek, Mercury Computer Systems

Murat Bicer, Mercury Computer Systems

Developing JTRS/SCA Compliant Software for Specialized Hardware Processors – A Case Study

Leigh McLeod, Mercury Computer Systems

Murat Bicer, Mercury Computer Systems

Mark Hermeling, Zeligsoft

Code Generation for SCA Components Running on FPGAs

Leigh McLeod, Mercury Computer Systems

Joshua Noseworthy, Mercury Computer Systems

A Reuse Approach for FPGA-based SDR waveforms

Kevin Skey, The MITRE Corporation

Karl Wagner, The MITRE Corporation

John Bradley, The MITRE Corporation

10/25/2006

1:45:00 PM

US-W-z - High Frequency Systems

Bill Furman

HF Radio Mesh Networks

Eric Johnson, NMSU

High Performance HF-UHF All Digital RF Receiver Tested at 20 GHz Clock Frequencies

Richard Hitt, Hypres, Inc.

Anna Leese de Escobar, U.S. Navy SPAWAR

Wesley Littlefield, Hypres, Inc.

Oleg Mukhanov, Hypres, Inc.

Distributed Randomized Space-Time Coding for HF Transmission

Matthew Sharp, Cornell University

Anna Scaglione, Cornell University

Stefano Galli, Telcordia Technologies

3:15:00 PM

US-W-Z - Joint Tactical Radio System (JTRS)

Len Schiavone

Cognitive Radio Testbed and LPI, LPD Waveforms

Allen Petrin, Northrop Grumman

Patrick Markus, Northrop Grumman

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Douglas Jaeger, Northrop Grumman
Ryan Palkki, Northrop Grumman
Jeffrey Pfeiffenberger, Northrop Grumman

Designing Software Defined Small Form Fit Radios for JTRS Networking

Richard Housewright, JTRS HMS
Larry Muzzelo, JTRS HMS
Richey Gunsaulis, JTRS HMS
M. Sayeed Hasan, JTRS HMS
Thomas Jensen, Mitre

The Mobile Data Link (MDL) of the Joint Tactical Radio System (JTRS) Wideband Network Waveform (WNW)

C. David Young, Rockwell Collins, Inc.

JTRS Infrastructure Architecture and Standards

Donald Stephens, JPEO JTRS
Brian Salisbury, JPEO JTRS
Kevin Richardson, JPEO JTRS

U070 - Design, Modeling and Simulation (DMAS)

10/23/2006

1:45:00 PM

US-M-X - Performance Modeling and Simulation

Gary Comparetto

Real-time network simulation for the GIG Tactical Edge

Anthony Michel, BBN
Frank Bronzo, BBN
Jim Bertone, BBN

Addressing Run-Time Performance Issues in Ad-Hoc Network Simulations

Gary Comparetto, The Mitre Corporation
Nancy Schult, The Mitre Corporation
Mohammad Mirhakkak, The Mitre Corporation
Robyn Wade, The Mitre Corporation
Doug Houser, To Mitre Corporation
Brian Hung, The Mitre Corporation

A Performance Evaluation of Transport Mechanisms in Hybrid Networks

Nancy Schult, MITRE
Robyn Wade, MITRE
Gary Comparetto, MITRE
Mohammad Mirhakkak, MITRE

Credibility and Validation of Simulation Models for Tactical IP Networks

Bert Boltjes, TNO Information and Communication Technology
Frank Thiele, TNO Information and Communication Technology
Irene Fernandez Diaz, TNO Information and Communication Technology

Improving Performance of Parallel Simulation Kernel for Wireless Network Simulations

Mansi Thoppian, University of Texas at Dallas
Hai Vu, University of Texas at Dallas
S. Venkatesan, University of Texas at Dallas
Ravi Prakash, University of Texas at Dallas
Neeraj Mittal, University of Texas at Dallas
Jackson Anderson, Rockwell Collins

RTS/CTS Data Link Abstractions for Mobile Ad Hoc Networks

Jeffrey Wildman, Drexel University
Bryan Willman, Drexel University
Michael Kirkpatrick, Drexel University
Steven Weber, Drexel University

Performance Evaluation of Navy's Tactical Network using OPNET

Andy Peng, Lockheed Martin - MS2
David Lilja, University of Minnesota - Twin Cities

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

10/24/2006

8:00:00 AM

US-T-O - Detection and Estimation in Communications Systems A

George Elmasry

IQ Gain Imbalance Measurement for OFDM based Wireless Communication Systems

Huseyin Arslan, USF

Performance of Serial, Matched-Filter Packet Acquisition using a Preamble-Sequence Acceptance Criterion

Javier Schloemann, Clemson University

Daniel Noneaker, Clemson University

A Joint Blind Timing and Frequency Offset Estimator for Asynchronous Multicarrier CDMA Communication Systems

Xiaoyu Hu, National University of Singapore and Institute for Infocomm Research, Singapore

Yong Hua Chew, Institute for Infocomm Research, Singapore

Application of Time-Frequency Analysis to Finite Duration Communication Signals

Edgar Satorius, Jet Propulsion Laboratory/California Institute of Technology

Ying-Wah Wu, U.S. Army I2WD

John Kosinski, U.S. Army I2WD

Asymptotic Multiuser Efficiency of a Decorrelator Based Successive Interference Cancellation DS-CDMA Multiuser Receiver

Bin Yang, Carleton University

Florence Danilo-Lemoine, Carleton University

Link-Adaptive Cooperative Communications without Channel State Information

Tairan Wang, University of Minnesota

Alfonso Cano, Rey Juan Carlos University

Georgios B. Giannakis, University of Minnesota

Frequency Offset Effects on Maximin Algorithm with a Step-Length Estimation Technique

Hyuck Kwon, Wichita State University

Dong-Hyuek Yang, Wichita State University

Amitav Mukherjee, Wichita State University

US-T-S - Simulation and Modeling of Large Scale Networks

Walter Lucchesi

Reliability Simulation of Large-Scale Networks Using Sampling-Scale

Lynn Carlson, General Dynamics C4S

Kristy Casella, General Dynamics

Jack McCann, General Dynamics C4 Systems

Considerations for HLA Federations of Communications Simulations

Eric Redding, Rockwell Collins

Jackson Anderson, Rockwell Collins

Lawrence Creech, Rockwell Collins

End-to-End Enterprise Monitoring Framework for NetOps

Dhawati Pansatiankul, The Aerospace Corporation

Victor Lin, The Aerospace Corporation

Optimizing Route Formation Algorithm to Reduce Simulation Run-Time for Large Tactical Networks

mohammad mirhakkak, MITRE Corp

Gary Comparetto, MITRE Corp

Doug Houser, MITRE Corp

Nancy Schult, MITRE Corp

Robyn Wade, MITRE Corp

HARVEST: A Framework and Co-Simulation Environment for Analyzing Unmanned Aerial Vehicle Swarms

Chris Augeri, Air Force Institute of Technology

Kevin Morris, Air Force Communications Agency

Barry Mullins, Air Force Institute of Technology

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

MONOPATI: A Multi-Objective Network Optimization and Analysis Tool

*Anthony McAuley, Telcordia
Kyriakos Manousakis, Telcordia Technologies*

Link Change and Generalized Mobility Metric for Mobile Ad-hoc Networks

*Quang-My Tran, Institute for Telecommunications Research, University of South Australia
Arek Dadej, Institute for Telecommunications Research, University of South Australia
Sylvie Perreau, Institute for Telecommunications Research, University of South Australia*

1:45:00 PM

US-T-N - C4ISR Architecture, Design and Simulation

Thomas Curtis

Gigabit Ethernet Data Multiplex System (GEDMS) - Evolution of a Net-Centric Navy Surface Combatant

*Scott Meier, The Boeing Company
Albert Manfredi, The Boeing Company
Jay Nieto, The Boeing Company*

System Architecture and Operational Concept Validation through Modeling and Simulation

*Robert Butler, Rockwell Collins
Lawrence Creech, Rockwell Collins
Albert Anderson, Rockwell Collins*

Engineering Transformational Solutions: We Are Making Progress Be We Still Have More To Achieve?

Walter Lucchesi, US Army

Implementing Interoperable Military Communications Systems

Lynn Grande, General Dynamics - C4S

Use of DoDAF & M&S for the Design Requirements and Optimization of a GIG-Enabled Wideband Mesh-Networking Waveform

*Andrew Hunton, BAE Systems
Robert Frye, BAE Systems
Chris Hammer, BAE Systems
Todd Haynes, BAE Systems
Phong Khuu, BAE Systems
Steve Mosteiro, BAE Systems
Richard Nogay, BAE Systems
Michael Weber, BAE Systems*

Generative Gateway Toolkit for Heterogeneous C3I Systems

*Greg Hupf, Command and Control Technologies Corporation
Rodney Davis, Command and Control Technologies Corporation*

Computer Network Defence Situational Awareness Information Requirements

*Luc Beaudoin, Defence R&D Canada
Micheal Froh, RatworX Inc
Marc Gregoire, Defence R&D Canada*

US-T-P - Detection and Estimation in Communications Systems B

Uf Tureli

On the Achievable Diversity Gain by the Optimal Subcarrier Allocations in Multiuser OFDM System

*Kainan Zhou, Institute for Infocomm Research
Yong Huat Chew, Institute for Infocomm Research*

Comparison of Selected Mapping and Partial Transmit Sequence for Crest Factor Reduction in OFDM

*Robert J. Baxley, Georgia Tech
G. Tong Zhou, Georgia Tech*

Highly efficient encoded OQPSK signals: emission and reception design aspects

Paulo Carvalho, FCT, Universidade Nova de Lisboa

SIR prediction for downlink packet access.

*Jonathan Ling, Lucent, Bell Labs
Uf Tureli, Stevens Institute of Technology*

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Constant Envelope OFDM with Channel Coding

Ahsen Ahmed, SSC San Diego
Steve Thompson, University of California, San Diego
James Zeidler, University of California, San Diego

Robust Pilot Designs for Consistent Frequency Offset Estimation in OFDM systems

Yinghui Li, University of Texas at Dallas
Hlaing Minn, University of Texas at Dallas
Naofal Al-Dhahir, University of Texas at Dallas
Robert Calderbank, Princeton University

Numerical Modeling of Conformal Phased Arrays on Tactical Systems

Deb Chatterjee, University of Missouri Kansas City (UMKC)

10/25/2006

8:00:00 AM

US-W-A - Network Traffic Prediction and Monitoring

Robert Nichols

Bandwidth Gain of the Triage QoS Protocol and Mobility Effects

Ping Liu, GE Research
Scott Evans, GE Research
Ishan Weerakoon, Lockheed Martin

Robust Flow Admission Control and Routing for Mobile Ad Hoc Networks

Runhe Zhang, UCLA
Izhak Rubin, UCLA

Capacity and Performance Analysis for Multi-Beam Forming Directional Networking

Ren Wang, Rockwell Scientific Company
Xinyu Wang, Rockwell Scientific Company
Jerry Burman, Rockwell Scientific Company
Timothy Chow, Rockwell Scientific Company
Scott Zogg, Rockwell Collins Inc
A Ayhan Sakarya, Rockwell Collins Inc
Dana Jensen, Rockwell Collins Inc

Optimal Scheduling of Heavy Tailed Traffic via Shape Parameter Estimation

Dell Kronewitter, San Diego Research Center

Capacity Planning with the Statistical Prediction of On-Off Flows

Seong-Soon Joo, ETRI
Young-Chul Bang, Korea Polytechnic University
Yoo-Kyung Lee, ETRI
Hae-Won Jung, ETRI

Managing a Dynamic Broadcast Infrastructure in Mobile Ad Hoc Networks through Distributed and Asynchronous Update of a Virtual Backbone

Iana Siomina, Dept of Science and Technology, Linkoping University
Di Yuan, Dept of Science and Technology, Linkoping University

Power control for a wireless queueing system with delayed state information: heavy traffic modeling and numerical analysis.

Vahid Ramezani, Intelligent Automation Inc.
Robert Buche, NC State Mathematics
Mou-Hsiung (Harry) Chang, U.S. Army Research Office
Yipeng Yang, NC State Statistics

1:45:00 PM

US-W-X - Propagation and Channel Modeling

Bill Kasch

Wireless Channels that Exhibit "Worse than Rayleigh" Fading: Analytical and Measurement Results

David Matolak, Ohio University
Indranil Sen, Ohio University
Wenhui Xiong, Ohio University

Near-Earth Wave Propagation in the Presence of a Vegetation Layer

DaHan Liao, The University of Michigan

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Kamal Sarabandi, The University of Michigan

An Experimental Look At RF Propagation In Narrow Tunnels

Erik Kjeldsen, Scientific Research Corporation

Marshall Hopkins, Scientific Research Corporation

Time-Varying Channel Identification and Prediction in OFDM Systems Using 2-D Frequency Estimation

Jun Liu, University of Louisville

Xiangqian Liu, University of Louisville

Path Loss Measurements With Low Antennas for Segmented Wideband Communications At VHF

Jeff Pugh, CRC

Robert Bultitude, CRC

Phil Vigneron, CRC

Performance Improvement of Opportunistic Beamforming with Conservative Link Adaptation in the Presence of Channel Estimation Error

Yohan Kim, Yonsei University

Dongku Kim, Yonsei University

Space-Time Doppler Spread Estimation in Mobile Fading Channels

Hong Zhang, ECE, NJIT

Ali Abdi, ECE, NJIT

U080 - Network Centric Systems and Technologies (NCST)

10/23/2006

8:00:00 AM

US-M-V - Transformational Communications

Phong Tran and David Stroud

Differential Availability & Bandwidth Management

Bharathi Devi, Lucent Technologies Integrated Solutions

Dynamic Resource Allocation for MILSATCOM Mobile Terminals in Blockage Environments

Julee Pandya, MIT Lincoln Laboratory

Jeff Wysocarski, MIT Lincoln Laboratory

Huan Yao, MIT Lincoln Laboratory

Aradhana Narula-Tam, MIT Lincoln Laboratory

Highly Scalable Signals in Space for Future High Data Rate Military Applications

Dr. Thomas Nicolay, Rohde & Schwarz

Dr. Thomas Kuhwald, Rohde & Schwarz

Andrew Schaefer, Rohde & Schwarz

Dr. Thorben Detert, Rohde & Schwarz

Torsten Langguth, Rohde & Schwarz

Planning Within the TSAT Operational Environment

Matthew Maher, Booz Allen Hamilton

Horacio Garcia, Booz Allen Hamilton

Jerry Mister, Booz Allen Hamilton

Anmol Das, Booz Allen Hamilton

Joint Tactical Radio System – Bringing the GIG to the Tactical Edge

Leonard Schiavone, MITRE

Dr. Rich North, JPEO JTRS

Norm Browne, SRA

Technology Readiness of Future Generation Networks Leveraging Regenerative Satellite Mesh Architecture – A SPACEWAY Perspective

Rajeev Gopal, HNS

David Whitefield, HNS

Steve Arnold, Hughes Network Systems, LLC

Net-Centric Conversations: The unit of work for network centric warfare

Harvey Reed, MITRE

Fred Stein, MITRE

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

10/24/2006

8:00:00 AM

US-T-C - Management Systems for Network Infrastructure Resources

John Hoag

Towards Automation of Management and Planning for Future Military Tactical Networks

C. Jason Chiang, Telcordia Technologies

Specification of Network Services and Mapping Algorithms

Tilman Wolf, University of Massachusetts, Amherst

Karoly Farkas, ETH Zurich

Bernhard Plattner, ETH Zurich

Lukas Ruf, In&Out AG, Zurich, Switzerland

Spectrum and Network Management convergence for wireless communications

Sheetalkumar Doshi, Scalable Network Technologies

Ha Duong, Scalable Network Technologies

Rajive Bagrodia, Scalable Network Technologies

Serey Thai, DISA/JSC

Self-Organized Management of Mobile Adhoc Networks

Amit Kulkarni, GE Global Research

Richard Spackmann, GE Global Research

Giri Kuthethoor, Lockheed Martin IS&S

Realtime Reconfiguration of Networks Through A Semantic Web

John Hoag, Ohio University

Assessing the Communication Issues Involved in Implementing High-Level Behaviors in Unmanned Aerial Vehicles

Robert Hiromoto, University of Idaho

Model-Based Communication Networks and VIRT: Orders of Magnitude Better for Information Superiority

Frederick (Rick) Hayes-Roth, Naval Postgraduate School (NPS)

1:45:00 PM

US-T-V - Net Centric Systems for Tactical Environments

Bill Carmichael

Evaluation of an Automated OSPF Area Design Utility for Wireless Battlefield Networks

John Sucec, Telcordia Technologies

John Unger, Telcordia Technologies

Kirk Chang, Telcordia Technologies

Sunil Samtani, Telcordia Technologies

Brian Russell, General Dynamics, C4 Systems Division

Bill Biagini, General Dynamics, C4 Systems Division

Aristides Staikos, U.S. Army CERDEC

Engineering Self-Critical Behavior in Mobile Adhoc Networks

Amit Kulkarni, GE Global Research

Giri Kuthethoor, Lockheed Martin IS&S

Constructing Predictable Applications for Military ad-hoc Wireless Networks

Neil Davies, Predictable Network Solutions

Dale Waldo, The Boeing Company

Dave Reeve, Predictable Network Solutions

Secure Content Based Routing in Tactical Mobile Ad-Hoc Networks

Yow-Jian Lin, Telcordia Technologies

Narayanan Natarajan, Telcordia Technologies

Unicast Routing Control Agent for Proactive Diverse Link Selection

Sumit Khurana, Telcordia Technologies

Gi Tae Kim, Telcordia Technologies

Sunil Samtani, Telcordia Technologies

Moncef Elaoud, Telcordia Technologies

Aristides Staikos, U.S. Army CERDEC

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Early, Robust Verification and Validation of Network-Enabled Systems for Tactical Environments

Jackson Anderson, Rockwell Collins
Jennifer Lundquist, Rockwell Collins
Jung-Chi Lin, Rockwell Collins

Automated Frequency Deconfliction for Tactical Networks

Pete Boyer, Equilateral Technologies
Pablo Vicharelli, Equilateral Technologies
Shukanth Reddy, Equilateral Technologies
Donna Fagen, Equilateral Technologies

U090 - SATCOM and Airborne Communications (SCAAC)

10/23/2006

8:00:00 AM

US-M-A - Resource Allocation and Multiple Access in Satellite Communications

Vijitha Weerackody and Lino Gonzalez

Bandwidth-Efficient Coded Cooperative Relaying in Wireless Networks

Sang Kim, Iowa State University

An Efficient Channel Estimation Algorithm under Narrow-Band Jamming for OFDM Systems

Myeongsu Han, Yonsei University
Takki Yu, Samsung Electronics
Jihyung Kim, Yonsei University
Kyungchul Kwak, Yonsei University
Seungyoun Han, Yonsei University
Daesik Hong, Yonsei University

Request Protocol Performance Impact for Mobile SATCOM with Dynamic Resource Allocation

Andrew Worthen, MIT Lincoln Laboratory
Nathaniel Jones, MIT Lincoln Laboratory

Design of Covert Military Networks: A Spectral Outage-based Approach

Pedro Pinto, Massachusetts Institute of Technology
Moe Win, Massachusetts Institute of Technology

On The Determination of Satellite Capacity Loss Due to Channel Estimates for Dynamic Bandwidth Allocation in a Peer-To-Peer MF-TDMA Network

Lino Gonzalez, Johns Hopkins University Applied Physics Laboratory

US-M-C - UHF SATCOM Operations and MUOS

Jack Nicholson and Pat Browne

Migration of U.S. Navy Tactical Networks to the Mobile User Objective System

Frank Tirpak, Maxim Systems, Inc.
Gary Huckell, L-3 Communications Titan Group

Capacity Assessment of Net-Centric SATCOM Systems

Richard L. Gobbi, LinQuest Corporation
Carl H. Burris, LinQuest Corporation
Jerry Fernholz, LinQuest Corporation
Dr. John Alexovich, LinQuest Corporation
David M. Cascio, Science Applications International Corporation
Dr. John J. Knab, Defense Information Systems Agency

An Evaluation of MUOS Support to Legacy UHF Terminals

Robyn Wade, The MITRE Corporation
Randy Mogor, The MITRE Corporation
Steve Frain, PMA-209
Marc Blaydoe, PMA-209

MUOS QoS Offerings and Their Impact on Future UHF SATCOM

Andrew Oak, The Johns Hopkins University Applied Physics Laboratory
Tao Jen, The Johns Hopkins University Applied Physics Laboratory

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Incorporation of UMTS Future Capabilities for MUOS Evolution

*Harold Zheng, The Johns Hopkins University Applied Physics Laboratory
Tao Jen, The Johns Hopkins University Applied Physics Laboratory
Andrew Oak, The Johns Hopkins University Applied Physics Laboratory
Sherry Wang, The Johns Hopkins University Applied Physics Laboratory*

Performance of MIL-STD-188-181C CPM SATCOM with Reduced State Demodulation

James Norris, Harris/RF Communications

Status of the Mobile User Objective System

Jack Nicholson, PEO Space Systems, PMW-146

1:45:00 PM

US-M-B - Resource Allocation and Multiple Access in Satellite Communications

Vijitha Weerackody and Lino Gonzalez

Performance of OFDM-CDMA System with PAPR Reduction in Nonlinear Rayleigh Fading Channel

*LIN FANG, Member, IEEE
Rui J. P. de Figueiredo, Life Fellow, IEEE*

Low-Complexity Localized Walsh Decoding For CDMA Systems

*Albert Chan, Vanu, Inc.
Jon Feldman, Vanu, Inc.
Raghu Madyastha, Vanu, Inc.
Piotr Indyk, MIT CSAIL
David Karger, MIT CSAIL*

A Novel Spectrally Efficient Wireless CDMA Transmission Scheme: System Design and Robustness to Channel Imperfections

*Aminata Amadou Garba, McGill University
Jan Bajcsy, McGill University*

Closed-Form BER Results for Multiple-Chip-Rate CDMA Systems Based on the Simplified Improved Gaussian Approximation

*Hyung-Myung Kim, KAIST
Il-Min Kim, Queen's University
MinChul Ju, Queen's University*

A PAPR reduction technique using expurgated cyclic codes for COFDM

*Zafar Taha, University of Arkansas at Little Rock
Xian Liu, University of Arkansas at Little Rock*

An Exact Error Probability Analysis of OFDM Systems with Frequency Offset

*Premanandana Rajatheva, Asian Institute of Technology
Prathapasinghe Dharmawansa, Asian Institute of Technology
Hlaing Minn, University of Texas, Dallas*

US-M-D - MUOS Technologies

Jack Nicholson and Pat Browne

EVM Simulation and Analysis Techniques

*Angela Wang, Lockheed Martin Corporation
Richard Ligmanowski, Lockheed Martin Corporation
Julio Castro, Boeing Company
Anthony Mazzara, Lockheed Martin Company (through Questiny)*

MUOS Ka Downlink Performance Evaluation with Transmitter Distortion

*Daisy Cheng, Lockheed Martin Space Systems Company
Liang Chu, Lockheed Martin Space Systems Company*

Hadamard Processing of Multi-Channel Pre-Digitized Data for Bandwidth Compression

*David K. Lee, General Dynamics C4 Systems
Randy K. Bahr, General Dynamics C4 Systems*

Estimated Frequency of Handovers in MUOS

Edward Orcutt, General Dynamics C4S

A generalized RAKE receiver for satellite WCDMA

John Sadowsky, General Dynamics C4 Systems

Support MUOS All IP Services with the FEC Enhancement

Liang Chu, Lockheed Martin Corporation

Note that papers are NOT listed in presentation order.

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Shared Network for MUOS

Minh Le, Lockheed Martin Space Systems Company

10/24/2006

1:45:00 PM

US-T-B - SATCOM Systems

Lori Jeromin

Development and test of a frequency hopped waveform for Medium Dtat Rates

Gaston Levannier, DGA/CELAR

Performance of multiple-access frequency-hopped systems in the presence of spurious tones

Barry Felstead, CRC

Effect of Group Delay Variation on Time Tracking for Frequency Hopped Satellite Systems

Nancy List, Lincoln Labs

An Efficient Resource Scheduling Algorithm for Phased Array Antenna Satellites

Jihwan Choi, MIT EECS

Mobile Communications in a Geosynchronous Regenerative Satellite Mesh (RSM) System

Steven Arnold, Hughes Network Systems

David Whitefield, Hughes Network Systems

Rajeev Gopal, Hughes Network Systems

A 50 W KA-BAND SOLID-STATE POWER AMPLIFIER AND UPCONVERTER FOR TRANSPORTABLE AND PLATFORM-MOUNT SATCOM SYSTEMS

Michael DeLisio, Wavestream

Keith King, Wavestream

Heidi Thelander, Wavestream

US-T-D - SATCOM On The Move

Richard Wexler

Successful development and test of SATCOM On-The-Move (OTM) Ku- and Ka-band Systems for the Army's Warfighter Information Network-Tactical (WIN-T)

Richard Wexler, MITRE Corp.

Richard Hoffmann, PM WIN-T

Philip Moran, General Dynamics

Automated Spectrum Plan Advisor for On-The-Move Networks

Harris Zebrowitz, Lockheed Martin Advanced Technology Laboratories

Randy Poe, Lockheed Martin Advanced Technology Laboratories

Shanti Sharma, Lockheed Martin Advanced Technology Laboratories

William Heisey, Lockheed Martin Advanced Technology Laboratories

William Kline, Lockheed Martin Advanced Technology Laboratories

Andrew Cortese, Lockheed Martin Advanced Technology Laboratories

Mohbab Hoque, HQ RDECOM CERDEC

Francis Loso, HQ RDECOM CERDEC

Yoram Levy, HQ RDECOM CERDEC

Helicopter Ku-band SATCOM On-the-Move

Don Wilcoxson, ViaSat

John O'Neill, ViaSat

Brian Sleight, ViaSat

Dan Chester, ViaSat

Performance of Satellite Communications On The Move Systems in the Presence of Antenna Pointing Errors

Vijitha Weerackody, Johns Hopkins University/APL

Lino Gonzalez, Johns Hopkins University/APL

Design and Implementation Challenges in Ka-/Ku-Dual-Band Satcom-on-the-Move Terminals for Military Applications

Cahit Ozbay, BAE Systems

James Benjamin, BAE Systems

Donya He, BAE Systems

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Garret Schneider, BAE Systems
Matthew Sherman, BAE Systems
William Teter, BAE Systems

10/25/2006

1:45:00 PM

US-W-B - Laser Communications for Ground, Airborne and Space Applications

Tom Macdonald

Airborne Laser Communications with Impulse Response Shortening and Viterbi Decoding

Sangwoo Lee, The Pennsylvania State University, Department of Electrical Engineering

Mohsen Kavehrad, The Pennsylvania State University, Department of Electrical Engineering

Wavelength Division Multiplexed Vehicle Data Bus Architectures and Applications

Rao Boggavarapu, General Dynamics Land Systems

Deepak Boggavarapu, SVTL Corporation

Analytical Performance Evaluation of an Optical Direct Detection CPFSK Transmission System Impaired by Polarization Mode Dispersion in a Single Mode Fiber

M SAIFUL ISLAM, Department of Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka-1000, Bangladesh

Majumder Satya Prasad, Bangladesh University of Engineering and Technology (BUET)

Performance Limitations of an Optical IM-DD Transmission System Due to Polarization Mode Dispersion

M SAIFUL ISLAM, Department of Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka-1000, Bangladesh

Majumder Satya Prasad, Bangladesh University of Engineering and Technology (BUET)

Khan M. Rezwan, United International University

Mitigating of Scintillation Noise in FSO Communication Links Using Saturated Optical Amplifiers

Mohammad Abtahi, COPL, Laval University

Leslie Rusch, COPL, Laval University

Adaptive Transceiver for Mobile Free-space Optical Communications

Jeffrey Minch, The MITRE Corporation

David Gervais, The MITRE Corporation

Daniel Townsend, The MITRE Corporation

Airborne Laser Communications: The Challenges of the Propagation Media

Tom Macdonald, US Air Force

John Jacob, The MITRE Corporation

Fred Walther, MIT Lincoln Laboratory

US-W-D - Network Centric Wideband SATCOM Technologies

Mike Ziegler

DOD TELEPORT- Network Management Evolution and Challenges

Brian Baucom, Booz Allen Hamilton, Inc.

Mark Krikorian, ILC

Blue Force Tracking Network Modeling & Simulation

Paul Kim, Johns Hopkins University / APL

Kanaya Chevli, Johns Hopkins University / APL

Dennis Moy, Johns Hopkins University / APL

Robert Pattay, Johns Hopkins University / APL

GBS Integration with Teleport and the New DISN Core

Bruce Bennett, Defense Information Systems Agency

Brian Myers, Booz Allen Hamilton

Anna Lee, Booz Allen Hamilton

Transformational IP Services Over Transponded SATCOM: An Architectural Approach

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Jay Hicks, US Army PM DCATS TMD
Dan Hannan, US Army SMDC/ARSTRAT
Bharat Parikh, AASKI Technology
David Fritz, AASKI Technology

**Application of Acceleration Technology to Military Sealift Command Afloat
WAN Infrastructure**

David Fowler, Systems Technology Forum, Ltd

Joint Management and Operations Subsystem (JMOS)

Jerry Rippon, AASKI Technology, Inc.
Chu Lai, PM DCATS Wide Band Control
Dan Hannan, ARSTRAT
Rick Dunnegan, JSEC

U100 - Poster Session

10/24/2006

8:00:00 AM

US-T-AA - Mobile and Wireless Networks - Poster Session

Derek Morris

Voice over Blue Force Tracking

Bruce Robinson, The MITRE Corporation
Terrance Zimmerman, The MITRE Corporation
Brian Cummings, The MITRE Corporation

STAMP : Shared-Tree Ad hoc Multicast Protocol

Lucile Canourgues, Rockwell Collins France
Jérôme Lephay, Rockwell Collins France
Laurent Soyer, Rockwell Collins France
André-Luc Beylot, IRIT/ENSEEIH

On the Multiple Access Performance of Prerake DS UWB System

Wei Cao, National University of Singapore
Arumugam Nallanathan, National University of Singapore
Chin Choy Chai, Institute for Infocomm Research, Singapore

**Resource and Service Discovery in Wireless Ad-Hoc Networks with Agile
Computing**

Niranjan Suri, Institute for Human & Machine Cognition
Matteo Rebeschini, Institute for Human & Machine Cognition
Maggie Breedy, Institute for Human & Machine Cognition
Marco Carvalho, Institute for Human & Machine Cognition
Marco Arguedas, Institute for Human & Machine Cognition

Cross-Layer Design of MANETs: The Only Option

John Stine, The MITRE Corporation

MVDR Based Smart Antenna MAC for MANETs

Timo Koskela, Centre for Wireless Communications
Matti Raustia, Centre for Wireless Communications
Timo Bräysy, Centre for Wireless Communications

**Shot Noise Models for Outage and Throughput Analyses in Wireless Ad Hoc
Networks**

Jagadish Venkataraman, University of Notre Dame
Martin Haenggi, University of Notre Dame
Oliver Collins, University of Notre Dame

ConTax: A Pricing Scheme for CHOKeW

Shushan Wen, Department of Electrical and Computer Engineering, University of
Florida
Yuguang Fang, Department of Electrical and Computer Engineering, University of
Florida

A new nonstationary Gaussian noise model for indoor wireless channels

Sania Salahuddin, University of Massachusetts Lowell
Charles Thompson, University of Massachusetts Lowell
Kavitha Chandra, University of Massachusetts Lowell

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Generalization of Channel Blockage Profiles for SATCOM On-the-Move Using 3-D Models

*Matthew D. Brennan, MIT Lincoln Laboratory
W. Mark Smith, MIT Lincoln Laboratory*

Location Estimation of Isotropic Transmitters in Wireless Sensor Networks

*John MacDonald, Sapiient Systems, Inc.
Donald Ucci, Illinois Institute of Technology
Dennis Roberson, Illinois Institute of Technology*

1:45:00 PM

US-T-AB - Sensors and Signal Processing - Poster Session

Derek Morris

Adaptive Code Acquisition with Receive Diversity in Nonhomogeneous Fading Channels

*Hyoungmoon Kwon, KAIST
Hyun Gu Kang, KAIST
Jinsoo Bae, Sejong University
So Ryoung Park, Catholic University of Korea
Sun Yong Kim, Konkuk University
Ickho Song, KAIST*

Spatial-Temporal-Frequency Diversity in Radar Sensor Networks

*Hung D. Ly, The University of Texas at Arlington
Qilian Liang, The University of Texas at Arlington*

Improving Mission Assurance Using Bit-True Hitless Data Path Selection

*Jerry Brand, Harris GCSD
Joanne Abowitt, Harris GCSD*

SOVA Decoding with Blind Channel Estimation in a SIMO FIR Channel

*Manjeet Singh, Institute for Infocomm Research
YS Kwok, Institute for Infocomm Research*

A Blind Signal Localization and SNR Estimation Method

*Johanna Vartiainen, Centre for Wireless Communications
Harri Saarnisaari, Centre for Wireless Communications
Janne Lehtomäki, Centre for Wireless Communications
Markku Juntti, Centre for Wireless Communications*

A Novel Approach to Reconnaissance using Cooperative Mobile Sensor Nodes

*Seokhoon Yoon, State University of New York at Buffalo
Chunming Qiao, State University of New York at Buffalo*

Energy Balancing in Coalition-based Multi-hop Wireless Sensor Networks

*Qinghai Gao, Arizona state University
Junshan Zhang, Arizona state University
Brian Larish, Space and Naval Warfare Systems Center*

Kalman Filter for Interference Mitigation and Channel Equalization in Aeronautical Telemetry

*Otilia Popescu, University of Texas at Dallas
Mohammad Saqub, University of Texas at Dallas
Dimitrie C. Popescu, University of Texas at San Antonio
Michael D. Rice, Brigham Young University*

Architecture and Analysis of Split Isolation Radio Frequency Electronics

Gary Dunn, L-3 Communications

A New Approach towards Solving the Location Discovery Problem in Wireless Sensor Networks

*Guang Han, Univ. of Maryland
Shaoyong Hua, Synopsys
Gang Qu, Univ. of Maryland*

An Adaptive Method of Unequal Error Protection of CELP parameters by Optimal Energy Distribution

*Prashanth Iyengar, University of Texas at Arlington
Dr. Vasant Prabhu, University of Texas at Arlington*

A Gigabit/Second Turbo Decoder on Field Programmable Gate Array: Supporting TSAT Channel Coding Requirement

Aaron Tu, LinQuest Corp

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Superimposed training for channel shortening equalization in OFDM

*Xiaoli Ma, Georgia Institute of Technology
Robert Baxley, Georgia Institute of Technology
John Kleider, General Dynamics
G. Tong Zhou, Georgia Institute of Technology*

Modulation and Sleeping Strategies for Wireless Sensor Networks

*Fadel Digham, Univ. of Minnesota
Georgios Giannakis, University of Minnesota*

Performance of OFDM Systems in Rayleigh Fading Channels with Phase Noise and Channel Estimation Errors

*Mohamed Jalloh, University of California, San Diego
Mishal Al-Gharabally, University of California, San Diego
Pankaj Das, University of California, San Diego*

10/25/2006

8:00:00 AM

US-W-AA - Information and Network Management - Poster Session

Richard Brehove

Military Usage Scenario and IEEE 802.11s Mesh Networking Standard

D. J. Shyy, MITRE

System Link Analysis for a Hybrid SATCOM System with Various Terminal Types

*Chien-Hsing Liao, National Central University, Department of Communication Engineering
Mu-King Tsay, National Central University, Department of Communication Engineering
Kuang-Zeng Cheng, National Space Organization
Tai-Kuo Woo, National Defense Management College, Department of Information Management*

Leveraging Net-Centric Monitoring Techniques Along With Information Fusion To Increase US Air Force Information Dominance

*Basil Jos, Air Force Research Laboratory
Tracey Culbertson, SRA International*

Clean-and-Forward Approach in Cooperative Wireless Networks

*Wookwon Lee, University of Arkansas
Brian Sepko, University of Arkansas*

Prediction in Dynamic Environments via Identification of Critical Time Points

*Zeid Kootbally, National Institute of Standards and Technology (NIST)
Raj Madhavan, National Institute of Standards and Technology (NIST)
Craig Schlenoff, National Institute of Standards and Technology (NIST)*

802.11 Wireless Network End-User Authentication Using Common Access Cards

Brendan DeBow, Booz Allen Hamilton Inc.

Policy-based Bandwidth Management for Tactical Networks with the Agile Computing Middleware

*Niranjan Suri, Institute for Human & Machine Cognition
Marco Carvalho, Institute for Human & Machine Cognition
James Lott, Institute for Human & Machine Cognition
Mauro Tortonesi, University of Ferrara
Jeffrey Bradshaw, Institute for Human & Machine Cognition
Marco Arguedas, Institute for Human & Machine Cognition
Maggie Breedy, Institute for Human & Machine Cognition*

Performance of Ultra-Wideband Communication Systems using DS-SS PPM with BCH Coding over a Fading Channel

*Hanfeng Chen, University of Victoria
Aaron Gulliver, University of Victoria
Wei Li, University of Victoria*

Theory of Enterprise C2

Jay Bayne, Meta Command Systems, Inc

Channel Estimation Using Kalman Filter for UWB Communication Systems

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Reza Pasand, Associates
Shruti Sethi, Associate
John Nielsen, Associate

Synthetic Data Generation Capabilities for Testing Data Mining Tools

Daniel Jeske, University of California
Pengyue Lin, University of California
Behrokh Samadi, Lucent Technologies
Carlos Rendon, University of California
Rui Xiao, University of California

Resource sharing in the most regular scheduling: deterministic performance and guarantee

Chung Shue Chen, LORIA-CNRS, Rue du Jardin Botanique, 54600 Villers Les Nancy, France
Wing Shing Wong, The Chinese University of Hong Kong

PMAC: An Ultra Energy Efficient Approach to Medium Access and Control for Wireless Sensor Networks

Nabeel Khan, University Of Delaware
Charles Boncelet, University Of Delaware

Performance of a Digital Ad-Hoc Chip Rate Estimator (ACRE) Given a Direct Sequence Spread Spectrum Pulse Shaped Signal

John Weber, NPS
Clark Robertson, NPS
Frank Kragh, NPS
Kyle Kowalske, NPS

Energy Analysis of Single-Hop Communication Systems

Kar-Peo Yar, University of Michigan
Wayne Stark, University of Michigan

Distributed Link-State Measurement for Accurate QoS-Routing

Zhen Qin, Dept of ECE, New Jersey Institute of Technology
Roberto Rojas-Cessa, Dept of ECE, New Jersey Institute of Technology
Nirwan Ansari, Dept of ECE, New Jersey Institute of Technology

1:45:00 PM

US-W-AB - Applications and Protocols - Poster Session

Richard Brehove

Deployment Mode Functionalities of Dynamic Domain Optimization Agent (DDOA) for OSPF Area Design

Mariusz Fecko, Telcordia Technologies
John Sucec, Telcordia Technologies
Sunil Samtani, Telcordia Technologies
Aristides Staikos, U.S. Army CERDEC

Agilent Application Mix: Realistic Performance and Stress Resilience Testing in Modern Business, Triple-Play and Multi-Service Converged Networks

Phillip Kazakov, Agilent Technologies Inc

QoSRT: a Quality of Service Routing Tree for Wireless Ad Hoc Networks

Khaled Alzoubi, Saint Xavier University
Moussa Ayyash, Illinois Institute of Technology
Faisal Akkawi, Northwestern University

Beyond Addresses: IPv6 Value for the GIG

Victoria Fineberg, DISA

Benchmarks for DDoS defense evaluation

Jelena Mirkovic, University of Delaware
Sonia Fahmy, Purdue University
Roshan Thomas, SPARTA
Peter Reiher, UCLA
Erinc Arikan, University of Delaware
Songjie Wei, University of Delaware

A NBI Resistant Receiver for Multiuser Communications

Chi Chian Wong, DSO National Labs
See Ee Tan, DSO National Labs
Boon Chong Ng, DSO National Labs

Automating Command Post and Battle Staff Operations at the USAF 45th Space Wing

Note that papers are NOT listed in presentation order.

Note that papers are NOT listed in presentation order.

Robert Price, Modus Operandi, Inc.
Timothy Beltz, ESI Acquisitions, Inc.
Nathan McKinnon, 45th Space Wing Communications Squadron

Simulation and Evaluation of An HF Email Network

Fan Zhang, Huazhong Univ. of Sci. & Tech.
Benxiong Huang, Huazhong Univ. of Sci. & Tech.
Lai Tu, Huazhong Univ. of Sci. & Tech.
Jian Zhang, Huazhong Univ. of Sci. & Tech.

IPoIM - Internet Protocol over Instant Messaging

Ariel Sabiguero, Instituto de Computación - Facultad de Ingeniería
Pablo Rodríguez, Instituto de Computación - Facultad de Ingeniería
María Laura Rodríguez, Instituto de Computación - Facultad de Ingeniería

Extracting Precise (1.5-m) Tactical Positioning Data from LF Radio Transmissions

David Allan, Allan Space-Time Solutions
Gus German, Allan Space-Time Solutions
Stephen Smith, Oak Ridge National Laboratory

Position Dependant Power Allocation Strategies in Cooperative Relay Networks

Somak Datta Gupta, Computer Science and Electrical Engineering, West Virginia University
Daryl Reynolds, Computer Science and Electrical Engineering, West Virginia University

The Application of Satellite Communication Technology to Operational Knowledge Acquisition

Scott McDermott, AeroAstro, Inc.
Kim Irving, AeroAstro, Inc.

U150 - Workshop on Situation Management (SIMA)

10/23/2006

8:00:00 AM

SIMA - Workshop on Situation Management (SIMA)

Gabe Jakobson, Lundy Lewis, John Salerno

KUPS: Knowledge-based Ubiquitous and Persistent Sensor networks for Threat Assessment

Qilian Liang, University of Texas at Arlington

User-Centric Information Management for Decision Support in Disaster Relief & Evacuation

Alexander Smirnov, SPIIRAS
Tatiana Levashova, SPIIRAS
Michael Pashkin, SPIIRAS
Andrew Krizhanovsky, SPIIRAS
Alexey Kashevnik, SPIIRAS
Anna Komarova, SPIIRAS
Nikolay Shilov, SPIIRAS

Agent-Based Situational Reasoning for In-Theater Distribution

Todd Carrico, Cougaar Software, Inc.
Bobby Chin, Battelle

Using environmental modeling to optimize sensor placement for detecting underwater threats

Lucas Vickers, Stevens Institute of Technology
Rustam Stolkin, Stevens Institute of Technology
Jeffrey Nickerson, Stevens Institute of Technology

Evaluating Threat Assessment for Multi-stage Cyber Attacks

Shanchieh Jay Yang, Rochester Institute of Technology
Jared Holsopple, Calspan-UB Research Center (CUBRC)
Moises Sudit, SUNY Buffalo

Automated Military-Civilian Information Sharing

Bob Dourandish, Quimba Software

Note that papers are NOT listed in presentation order.

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Nina Zumel, Quimba Software
Michael Manno, AFRL

A tactical active information sharing system for military MANets

Lionel BARRERE, LaBRI, Université Bordeaux 1
Serge CHAUMETTE, LaBRI, Université Bordeaux 1
Jacques TURBERT, CELAR, Centre d'Electronique de l'Armement

A Framework of Cognitive Situation Modeling and Recognition

Gabriel Jakobson, Altusys Corp.
John Buford, Altusys Corp.
Lundy Lewis, South New Hampshire University

Addressing Information Display Weaknesses for Situational Awareness

Mike Gilger, FYI Corporation

MEDRN - A Mutual Aid Information Network for Emergency Response

Jaime Gomezjurado, Semandex Networks
Daniel Reininger, Semandex Networks

Reflective Situation Management

John Buford, Altusys Corp
Gabriel Jakobson, Altusys Corp
Lundy Lewis, Southern New Hampshire University

SeeCoast: Automated Port Scene Understanding Facilitated by Normalcy Learning

Brad RHODES, BAE Systems, Advanced Information Technologies
Neil BOMBERGER, BAE Systems, Advanced Information Technologies
Michael SEIBERT, BAE Systems, Advanced Information Technologies
Allen WAXMAN, BAE Systems, Advanced Information Technologies

Intelligent Situation Awareness on a GIS Basis

Vasily Popovich, SPIIRAS
A Pankin, SPIIRAS
M. Voronin, SPIIRAS
Ludmilla Sokolova, L. Sokolova

Biology-inspired Architecture for Situation Management

Kennie Jones, NASA Langley Research Center
Kenneth Lodding, NASA Langley Research Center
Stephan Olariu, Old Dominion University
Larry Wilson, Old Dominion University
Chunsheng Xin, Norfolk State University

Towards Global Maritime Domain Awareness-- A technical perspective

Metin Balci, NATO CC-MAR NAPLES HQ
Russ Pegg, NATO CC-MAR NAPLES HQ

Human Perspective Based Context Acquisition, Learning and Awareness in the Design of Context Aware Systems

Ashish Godbole, Univ of Dayton

Note that papers are NOT listed in presentation order.