

CALL FOR PAPERS

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IEEE WCNC is the premier wireless event for wireless communications researchers, industry professionals, and academics interested in the latest development and design of wireless systems and networks. Sponsored by the IEEE Communications Society, IEEE WCNC has a long history of bringing together industry, academia, and regulatory bodies. In 2011, the paradisiacal city of Cancun, Quintana-Roo, Mexico will become the wireless capital by hosting IEEE WCNC 2011.

IEEE WCNC 2011 will include technical sessions, tutorials, exhibitions and technology and business panels. You are invited to submit papers in all areas of wireless communications, networks, services, and applications. Potential topics are solicited in, but are not limited to, the following categories:

I. PHY TRACK

- Interference characterization
- Cognitive radio, ultra-wideband
- Multihop and cooperative communications
- Modulation, coding, diversity
- Equalization, synchronization
- Space-time, MIMO, adaptive antennas
- OFDM, CDMA, spread spectrum
- Channel modeling and characterization
- Interference cancellation and MUD
- Iterative techniques
- Information-theoretic aspects of wireless communications
- Signal processing for wireless communications
- Ultra-Wide Bandwidth communications
- Collaborative signal processing
- Propagation models for high frequency channels

II. MAC TRACK

- Multiple access techniques
- Cognitive and cooperative MAC
- Collaborative algorithms
- MAC for mesh, ad hoc, relay, and sensor networks
- Network information theory
- Radio resource management and allocation, scheduling
- Cross-layer design, cross-layer security
- Software defined radio, RFID
- Adaptability and reconfigurability
- Wireless MAC protocols: design and analysis
- B3G/4G Systems, WiMAX, WLAN, WPAN
- QoS provisioning in MAC

III. NETWORKS TRACK

- Position location
- Topology control and establishment in mesh, relay, sensor, and ad hoc networks
- Mobility, location, and handoff modeling and management
- Wireless routing
- Clustering in mesh, relay, sensor, and ad hoc networks
- Network coding in mesh, relay, sensor, and ad hoc networks
- Multimedia QoS and traffic management
- Wireless broadcast, multicast, and streaming
- Congestion and admission control
- Wireless network security and privacy
- Interworking heterogeneous wireless/wireline networks
- Capacity, throughput, outage, coverage
- Vehicle-to-vehicle communication

IV. SERVICES & APPLICATIONS TRACK

- Emerging wireless/mobile applications
- Context and location-aware wireless services & applications
- Wireless telemedicine and e-health services
- Intelligent transportation systems
- Cognitive radio and sensor-based applications
- Content distribution in wireless home environment
- Wireless emergency and security systems
- Service oriented architectures, service portability
- SIP based services, multimedia, QoS support, middleware
- Innovative user interfaces, peer-to-peer services for multimedia
- Dynamic services, autonomic services
- Regulations, standards, spectrum management
- Test-bed and prototype implementation of wireless services
- Personalization, service discovery, profiles and profiling

CALL FOR TUTORIALS

Proposals for half/full day tutorials are also solicited based on the topics listed above or others related to issues and opportunities for the future of wireless communications, systems, and applications.

CALL FOR PANELS

Proposals are solicited for Technology/Business Application Panels in the above mentioned topical areas or others related to business and policy-related issues and opportunities for the wireless communications industry.

IMPORTANT DATES

Full Paper Submittal: Tuesday 5 October 2010.

Acceptance Notification: Monday 29 November 2010

Final Camera Ready Copy: Monday 10 January 2011 11:59 EST

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2011 IEEE Wireless Communications and Networking Conference

IEEE WCNC 2011: 2011 IEEE Wireless Communications and Networking Conference

2011 IEEE Wireless Communications and Networking Conference took place March 28-31, 2011 in Cancun, Quintana Roo, Mexico.

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Program

Tuesday, March 29

NET1: Wireless Sensor and Mesh Networks

On the Performance of Downstream Traffic Distribution Scheme in Fiber-Wireless Networks

M. Honda, H. Nishiyama, H. Nomura, T. Yada, H. Yamada and N. Kato
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Balanced Slices in Wireless Sensor Networks

M. Shazly, E. Elmallah and J. Harms
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Analytical Modeling of Spatial Variation of Energy Dissipation in Cluster-based Wireless Sensor Networks

M. Slavik, I. Mahgoub and A. Badi
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Chain Effect of Route Recoveries and MAC layer Collisions in Wireless Multi-hop Networks

Y. Hirano, S. Jain and D. Raychaudhuri
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Opportunistic Vehicular Ferrying for Energy Efficient Wireless Mesh Networks

K. Moghadam, G. Badawy, T. D. Todd, D. Zhao and J. Pérez Díaz
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NET2: Ad-Hoc and Sensor Networks I

Capacity of Composite Networks: Combining Social and Wireless Ad Hoc Networks

B. Azimdoost, H. Sadjadpour and Jj Garcia-Luna-Aceves
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A cross-layer framework to support real-time and elastic traffic in MANETs

Jj Garcia-Luna-Aceves and R. Menchaca-Mendez
pp. 469-474

A Multiobjective Approach to the Relay Placement Problem in WSNs

A. Pérez, M. Labrador and P. Wightman
pp. 475-480

Quantifying Sensing Coverage and Data Delivery Delay in Mobile Sensor Networks

T. Hara
pp. 481-486

Scheduling Multiple Sinks in Wireless Sensor Networks: A Column Generation Based Approach

Yu Gu, B. Zhao, Y. Ji and J. Li
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MAC1: OFDMA I

Queue-Aware Adaptive Resource Allocation for OFDMA Systems Supporting Mixed Services

C. Huo, A. Sesay and A. Fapojuwo
pp. 1-6

Bit Error Rate Performance Analysis of Optical CDMA Time-Diversity Links over Gamma-Gamma Atmospheric Turbulence Channels

P. Liu, X. Wu, K. Wakamori, T. D. Pham, M. Alam and M. Matsumoto
pp. 1932-1936

Design and Implementation of A more Realistic Radio Propagation Model for Wireless Vehicular Networks over the NCTUns Network Simulator

S. Y. Wang, P. F. Wang, Y. w. Li and L. C. Lau
pp. 1937-1942

Beam and RB Allocation in LTE Uplink with Opportunistic Beamforming

E. Yaacoub
pp. 1943-1947

On OFDM Link Performance under Receiver Phase Noise with Arbitrary Spectral Shape

V. Syrjälä, M. Valkama, Y. Zou, N. Tchamov and J. Rinne
pp. 1948-1953

Power Amplifier Nonlinearity Effects on OFDM Subcarrier Transmit Beamforming

G. Ku and J. Walsh
pp. 1954-1959

PHY25: Interference II

Interference Mitigation and Analysis

Gaussian Interference Channel with State Information

L. Zhang, J. Jiang and S. Cui
pp. 1960-1965

Interference Alignment for Clustered Multicell Joint Decoding

S. Chatzinotas and B. Ottersten
pp. 1966-1971

Joint Interference Cancellation and Dirty Paper Coding for Cognitive Cellular Networks

M. Shahmohammadi, O. O. Koyluoglu, T. Khattab and H. El Gamal
pp. 1972-1976

An Efficient Algorithm for Partial Interference Cancellation Group Decoding

X. Guo and K. Wu
pp. 1977-1982

PHY26: Coding III

Construction of Phase Tracking Codebooks Based on the Lloyd-Max Vector Quantization

J. Park, J. Kim, H. g. Yoo and W. Sung
pp. 1983-1987

Outage Performance of Analog Network Coding in Generalized Two-Way Multi-Hop Networks

G. Wang, W. Xiang, J. Yuan and T. Huang
pp. 1988-1993

Gigabit Rate Achieving Low-Power LDPC Codes: Design and Architecture

S. Abu-Surra, E. Pisek and T. Henige
pp. 1994-1999

Outage Analysis of Joint Channel-Network Coding and Its Dependence on the Interleaver Pattern

E. Kurniawan, K. F. E. Chong, S. Sun and K. Yen
pp. 2000-2005

Gengkun Wang

From: EDAS Conference Manager [help@edas-help.com] on behalf of IEEE WCNC 2011 - PHY [cvargas@itesm.mx]
Sent: Tuesday, 30 November 2010 12:30
To: Gengkun Wang
Cc: Wei Xiang; Jinhong Yuan; Tao Huang
Subject: [IEEE WCNC 2011 - PHY] Your paper 'Outage Performance of Analog Network Coding in Generalized Two-Way Multi-Hop Networks' has been accepted

Dear Mr. Gengkun Wang:

We are pleased to inform you that your paper #1569368649, 'Outage Performance of Analog Network Coding in Generalized Two-Way Multi-Hop Networks', has been accepted to the IEEE Wireless Communications and Networking Conference 2011 (IEEE WCNC 2011 PHY) -- <http://www.ieee-wcnc.org/2011>.

A total of 832 papers were submitted to IEEE WCNC 2011. More than 95% of these papers had three or more reviews; no paper had less than two reviews. Your paper is among the 400 papers accepted after careful consideration -- congratulations!

The reviews are given below; they can also be found at <http://edas.info/showPaper.php?m=1569368649>. We recommend that you revise your paper to address the reviewers' comments and suggestions.

The Final Paper Submittal Instructions are posted at <http://www.ieee-wcnc.org/2011/submit.html>

For information about the Mexican Visa please see the conference web page.

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Congratulations once again for having your paper accepted to IEEE WCNC 2011, a flagship conference of the IEEE Communications Society. We look forward to seeing you in Cancun.

Sincerely,

Technical Program Chairs
David Munoz,
Cesar Vargas.

=====

===== Review 1 =====

> *** Relevance and Timeliness: Rate the importance and timeliness of the topic addressed in the paper within its area of research.
Excellent. (5)

> *** Technical Content and Scientific Rigour: Rate the technical content of the paper (e.g.: completeness of the analysis or simulation study, thoroughness of the treatise, accuracy of the models, etc.), its soundness and scientific rigour.
Solid work of notable importance. (4)

> *** Novelty and Originality: Rate the novelty and originality of the ideas or results presented in the paper.
Significant original work and novel results. (4)

> *** Quality of Presentation: Rate the paper organization, the clearness of text and figures, the completeness and accuracy of references.
Well written. (4)

> *** Strong Aspects: Comments to the author: What are the strong aspects of the paper?

In this paper, the authors analyze the ANC scheme for generalized two-way multi-hop networks and derive end-to-end SNR expressions for the multi-hop network with ANC. This is interesting topic having in mind recent advances in network coding at the physical layer.

> *** Weak Aspects: Comments to the author: What are the weak aspects of the paper?

It is very difficult to keep track of derivations of particular equations due to lack of space since the paper is already having 6 pages.

> *** Recommended Changes: Recommended changes. Please indicate any changes that should be made to the paper if accepted.

A bit add more steps and explanations in derivations if possible.

===== Meta review 2 =====

> *** Relevance and Timeliness: Rate the importance and timeliness of the topic addressed in the paper within its area of research.
Good. (4)

> *** Technical Content and Scientific Rigour: Rate the technical content of the paper (e.g.: completeness of the analysis or simulation study, thoroughness of the treatise, accuracy of the models, etc.), its soundness and scientific rigour.
Solid work of notable importance. (4)

> *** Novelty and Originality: Rate the novelty and originality of the ideas or results presented in the paper.
Significant original work and novel results. (4)

> *** Quality of Presentation: Rate the paper organization, the clearness of text and figures, the completeness and accuracy of references.
Well written. (4)

> *** Strong Aspects: Comments to the author: What are the strong aspects of the paper?

This paper applied AF based analog network coding to two way n-node m-frame multi-hop networks. The authors well captured the recursive characteristics in two way multi-hop networks with analog network coding and analyzed the end-to-end outage probability. The authors seem to successfully generalize analog network coding in two way multi-hop networks.

> *** Weak Aspects: Comments to the author: What are the weak aspects of the paper?

I understand some details of derivations are omitted due to the page length but it makes verification of the derivations very difficult.

> *** Recommended Changes: Recommended changes. Please indicate any changes that should be made to the paper if accepted.

Refer to the weak aspects.

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Outage Performance of Analog Network Coding in Generalized Two-Way Multi-Hop Networks

COMPLETE LIST OF AUTHORS:

Gengkun Wang, Wei Xiang, Jinhong Yuan, and Tao Huang

IEEE PUBLICATION TITLE (Journal, Magazine, Conference, Book):
Proceedings of 2011 IEEE Wireless Communications and Networking Conference

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