

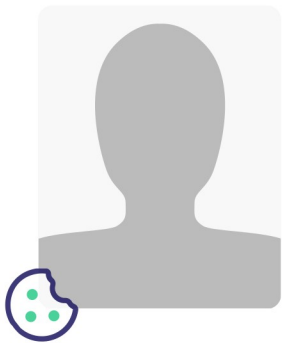
Author details

< Back

Runhua Chen ?

Also published under: R. Chen

Publications 16	Citations ? 1,518
Publications by Year 20042012	
Co-Authors: ey G. AndrewsRalf BendlinVikram ChandrasekharAnand G. DabakAnthony EkpenyongShow All Co-Authors (19)	



Runhua Chen

Also published under: [R. Chen](#)

Affiliation

Wireless Basestation Infrastructure
Texas Instruments Incorporated

Publications

16

Citations

1,518

Publications by Year

2004

2012

Follow

Dallas, TX, USA

Publication Topics

Spectral Efficiency, Cellular Networks, Heterogeneous Network, Minimum Mean Square Error, Orthogonal Frequency Division Multiplexing, Practical Deployment, Switching Dynamics, System-level Simulation, Wireless Networks, Access Scheme, Accurate Channel State Information, Anchor

Show More

Biography

Runhua Chen (r-chen@ti.com) is a member of technical staff at Wireless Basestation Infrastructure, Texas Instru-ments. His research interests span several areas in advanced wireless communication systems, with an emphasis on MU-MIMO, heterogeneous networks, coordinated base station transmission, and energy-efficient cloud infrastructure. He has published over 20 refereed papers, including one ranked as the “#1 Most Downloaded Paper on IEEEExplore” in 2005–2006, holds 40 issued and pending patents, and has served on the TPCs of several IEEE conferences. *(Based on document published on 9 February 2012).*

Co-Authors:

Jeffrey G. Andrews
Ralf Bendlin
Vikram Chandrasekhar
Anand G. Dabak
Anthony Ekpenyong

Show All Co-Authors (19)

This Author's Publications

Search within results

Search History

Showing 1-16 of 16 results

☐ Conferences (9)

☐ Journals (5)

☐ Magazines (2)

Sort Oldest Sort ▼



☐ Transmit selection diversity for multiuser spatial multiplexing systems



- ☒ All Results
- ☐ Subscribed Content 
- ☐ Open Access Only
- ☐ File Cabinet

Year 

- ☒ Range
- ☐ Single Year

2004

2012

Clear

Author 

Affiliation 

Publication Title 

Publisher 

Conference Location 

Publication Topics 



R. Chen; J.G. Andrews; R.W. Heath
IEEE Global Telecommunications Conference, 2004. GLOBECOM '04.
Year: 2004 | Conference Paper | Publisher: IEEE
Cited by: Papers (5) | Patents (2)

-  Abstract
- HTML
- 
- 

Transmit selection diversity for multiuser spatial multiplexing systems

R. Chen; J.G. Andrews; R.W. Heath
IEEE Global Telecommunications Conference, 2004. GLOBECOM '04.
Year: 2004 | Volume: 4 | Conference Paper | Publisher: IEEE

+ File Cabinet 

☐ Broadband wireless access with WiMax/802.16: current performance benchmarks and future potential

A. Ghosh; D.R. Wolter; J.G. Andrews; R. Chen
IEEE Communications Magazine
Year: 2005 | Volume: 43, Issue: 2 | Magazine Article | Publisher: IEEE
Cited by: Papers (465) | Patents (4)

-  Abstract
- HTML
- 
- 

Broadband wireless access with WiMax/802.16: current performance benchmarks and future potential

A. Ghosh; D.R. Wolter; J.G. Andrews; R. Chen
IEEE Communications Magazine
Year: 2005 | Volume: 43, Issue: 2 | Magazine Article | Publisher: IEEE

+ File Cabinet 

☐ Sum Capacity of Multiuser MIMO Broadcast Channels with Block Diagonalization

Zukang Shen; Runhua Chen; Jeffrey G. Andrews; Robert W. Heath; Brian L. Evans
2006 IEEE International Symposium on Information Theory
Year: 2006 | Conference Paper | Publisher: IEEE
Cited by: Papers (22)

-  Abstract
- HTML
- 
- 

+ File Cabinet

Sum Capacity of Multiuser MIMO Broadcast Channels with Block Diagonalization



Zukang Shen; Runhua Chen; Jeffrey G. Andrews; Robert W. Heath; Brian L. Evans
2006 IEEE International Symposium on Information Theory
Year: 2006 | Conference Paper | Publisher: IEEE

☐ WLC11-4: Power Control for Cellular MIMO Systems



Runhua Chen; Jeffrey G. Andrews; Robert W. Heath Jr.; Arunabha Ghosh
IEEE Globecom 2006
Year: 2006 | Conference Paper | Publisher: IEEE
Cited by: Papers (2)

✓ Abstract **HTML**  

+ File Cabinet



WLC11-4: Power Control for Cellular MIMO Systems

Runhua Chen; Jeffrey G. Andrews; Robert W. Heath Jr.; Arunabha Ghosh
IEEE Globecom 2006
Year: 2006 | Conference Paper | Publisher: IEEE

☐ Transmit Selection Diversity for Unitary Precoded Multiuser Spatial Multiplexing Systems With Linear Receivers



Runhua Chen; Robert W. Heath; Jeffrey G. Andrews
IEEE Transactions on Signal Processing
Year: 2007 | Volume: 55, Issue: 3 | Journal Article | Publisher: IEEE
Cited by: Papers (109) | Patents (42)

✓ Abstract **HTML**  

+ File Cabinet



Transmit Selection Diversity for Unitary Precoded Multiuser Spatial Multiplexing Systems With Linear Receivers

Runhua Chen; Robert W. Heath; Jeffrey G. Andrews
IEEE Transactions on Signal Processing
Year: 2007 | Volume: 55, Issue: 3 | Journal Article | Publisher: IEEE



- ☐
- Low-Complexity User and Antenna Selection for Multiuser MIMO Systems with Block Diagonalization**
- 
- Runhua Chen; Jeffrey G. Andrews; Robert W. Heath; Zukang Shen
- 2007 IEEE International Conference on Acoustics, Speech and Signal Processing - ICASSP '07
- Year: 2007 | Conference Paper | Publisher: IEEE
- Cited by: Papers (5)

[Abstract](#) [HTML](#)  

+ File Cabinet 

Low-Complexity User and Antenna Selection for Multiuser MIMO Systems with Block Diagonalization

Runhua Chen; Jeffrey G. Andrews; Robert W. Heath; Zukang Shen
2007 IEEE International Conference on Acoustics, Speech and Signal Processing - ICASSP '07
Year: 2007 | Volume: 3 | Conference Paper | Publisher: IEEE

- ☐
- Uplink Power Control in Multi-Cell Spatial Multiplexing Wireless Systems**
- 
- Runhua Chen; Jeffrey G. Andrews; Robert W. Heath; Arunabha Ghosh
- IEEE Transactions on Wireless Communications
- Year: 2007 | Volume: 6, Issue: 7 | Journal Article | Publisher: IEEE
- Cited by: Papers (46)

[Abstract](#) [HTML](#)  

+ File Cabinet 

Uplink Power Control in Multi-Cell Spatial Multiplexing Wireless Systems

Runhua Chen; Jeffrey G. Andrews; Robert W. Heath; Arunabha Ghosh
IEEE Transactions on Wireless Communications
Year: 2007 | Volume: 6, Issue: 7 | Journal Article | Publisher: IEEE

- ☐
- Sum Capacity of Multiuser MIMO Broadcast Channels with Block Diagonalization**
- 
- Zukang Shen; Runhua Chen; Jeffrey G. Andrews; Robert W. Heath; Brian L. Evans
- IEEE Transactions on Wireless Communications
- Year: 2007 | Volume: 6, Issue: 6 | Journal Article | Publisher: IEEE
- Cited by: Papers (100) | Patents (37)



▼ Abstract HTML  

+ File Cabinet 

Sum Capacity of Multiuser MIMO Broadcast Channels with Block Diagonalization

Zukang Shen; Runhua Chen; Jeffrey G. Andrews; Robert W. Heath; Brian L. Evans
IEEE Transactions on Wireless Communications
Year: 2007 | Volume: 6, Issue: 6 | Journal Article | Publisher: IEEE

☐ Efficient Transmit Antenna Selection for Multiuser MIMO Systems with Block Diagonalization



Runhua Chen; Jeffrey G. Andrews; Robert W. Heath
IEEE GLOBECOM 2007 - IEEE Global Telecommunications Conference
Year: 2007 | Conference Paper | Publisher: IEEE
Cited by: Papers (26) | Patents (3)

▼ Abstract HTML  

+ File Cabinet 

Efficient Transmit Antenna Selection for Multiuser MIMO Systems with Block Diagonalization

Runhua Chen; Jeffrey G. Andrews; Robert W. Heath
IEEE GLOBECOM 2007 - IEEE Global Telecommunications Conference
Year: 2007 | Conference Paper | Publisher: IEEE

☐ Coordinated Multi-cell MIMO Systems with Cellular Block Diagonalization



Jun Zhang; Runhua Chen; Jeffrey G. Andrews; Robert W. Heath
2007 Conference Record of the Forty-First Asilomar Conference on Signals, Systems and Computers
Year: 2007 | Conference Paper | Publisher: IEEE
Cited by: Papers (31) | Patents (32)

▼ Abstract HTML  

+ File Cabinet



Coordinated Multi-cell MIMO Systems with Cellular Block Diagonalization

Jun Zhang; Runhua Chen; Jeffrey G. Andrews; Robert W. Heath

2007 Conference Record of the Forty-First Asilomar Conference on Signals, Systems and Computers

Year: 2007 | Conference Paper | Publisher: IEEE



☐ Multimode Transmission for Multiuser MIMO Systems With Block Diagonalization

Runhua Chen; Zukang Shen; Jeffrey G. Andrews; Robert W. Heath

IEEE Transactions on Signal Processing

Year: 2008 | Volume: 56, Issue: 7 | Journal Article | Publisher: IEEE

Cited by: Papers (70)

✓ Abstract

HTML



+ File Cabinet



Multimode Transmission for Multiuser MIMO Systems With Block Diagonalization

Runhua Chen; Zukang Shen; Jeffrey G. Andrews; Robert W. Heath

IEEE Transactions on Signal Processing

Year: 2008 | Volume: 56, Issue: 7 | Journal Article | Publisher: IEEE

☐ Networked MIMO with clustered linear precoding

Jun Zhang; Runhua Chen; Jeffrey G. Andrews; Arunabha Ghosh; Robert W. Heath

IEEE Transactions on Wireless Communications

Year: 2009 | Volume: 8, Issue: 4 | Journal Article | Publisher: IEEE

Cited by: Papers (421) | Patents (40)

✓ Abstract

HTML



+ File Cabinet



Networked MIMO with clustered linear precoding

Jun Zhang; Runhua Chen; Jeffrey G. Andrews; Arunabha Ghosh; Robert W. Heath

IEEE Transactions on Wireless Communications

Year: 2009 | Volume: 8, Issue: 4 | Journal Article | Publisher: IEEE



☐ **Efficient Channel Quality Feedback Schemes For OFDMA Systems With Different Schedulers**



Badri Varadarajan; Runhua Chen; Eko N. Onggosanusi; Il Han Kim; Anand G. Dabak
VTC Spring 2009 - IEEE 69th Vehicular Technology Conference
Year: 2009 | Conference Paper | Publisher: IEEE
Cited by: Papers (2)

✓ Abstract

HTML



+ File Cabinet



Efficient Channel Quality Feedback Schemes For OFDMA Systems With Different Schedulers

Badri Varadarajan; Runhua Chen; Eko N. Onggosanusi; Il Han Kim; Anand G. Dabak
VTC Spring 2009 - IEEE 69th Vehicular Technology Conference
Year: 2009 | Conference Paper | Publisher: IEEE

☐ **From homogeneous to heterogeneous networks: A 3GPP Long Term Evolution rel. 8/9 case study**



Ralf Bendlin; Vikram Chandrasekhar; Runhua Chen; Anthony Ekpenyong; Eko Onggosanusi
2011 45th Annual Conference on Information Sciences and Systems
Year: 2011 | Conference Paper | Publisher: IEEE
Cited by: Papers (27)

✓ Abstract

HTML



+ File Cabinet



From homogeneous to heterogeneous networks: A 3GPP Long Term Evolution rel. 8/9 case study

Ralf Bendlin; Vikram Chandrasekhar; Runhua Chen; Anthony Ekpenyong;
Eko Onggosanusi
2011 45th Annual Conference on Information Sciences and Systems
Year: 2011 | Conference Paper | Publisher: IEEE

☐ **Downlink MIMO in LTE-advanced: SU-MIMO vs. MU-MIMO**



Lingjia Liu; Runhua Chen; Stefan Geirhofer; Krishna Sayana; Zhihua Shi; Yongxing Zhou
IEEE Communications Magazine
Year: 2012 | Volume: 50, Issue: 2 | Magazine Article | Publisher: IEEE



Cited by: Papers (185) | Patents (42)

✓ Abstract HTML  

+ File Cabinet



Downlink MIMO in LTE-advanced: SU-MIMO vs. MU-MIMO

Lingjia Liu; Runhua Chen; Stefan Geirhofer; Krishna Sayana; Zhihua Shi; Yongxing Zhou

IEEE Communications Magazine

Year: 2012 | Volume: 50, Issue: 2 | Magazine Article | Publisher: IEEE

☐ Single and multi-cell scheduling in coordinated multi-point distributed antenna systems



Runhua Chen; Ralf Bendlin; Eko Onggosanusi; Anthony Ekpenyong

2012 IEEE Global Communications Conference (GLOBECOM)

Year: 2012 | Conference Paper | Publisher: IEEE

Cited by: Papers (2)

✓ Abstract HTML  

+ File Cabinet



Single and multi-cell scheduling in coordinated multi-point distributed antenna systems

Runhua Chen; Ralf Bendlin; Eko Onggosanusi; Anthony Ekpenyong

2012 IEEE Global Communications Conference (GLOBECOM)

Year: 2012 | Conference Paper | Publisher: IEEE



CHANGE USERNAME/
PASSWORD

PAYMENT OPTIONS
VIEW PURCHASED
DOCUMENTS

COMMUNICATIONS
PREFERENCES

PROFESSION AND
EDUCATION

TECHNICAL INTERESTS

US & CANADA: +1 800
678 4333

WORLDWIDE: +1 732
981 0060

CONTACT & SUPPORT



[About IEEE Xplore](#) [Contact Us](#) [Help](#) [Accessibility](#) [Terms of Use](#) [Nondiscrimination Policy](#) [IEEE Ethics Reporting](#) [Sitemap](#)
[IEEE Privacy Policy](#)

IEEE Account

» [Change Username/Password](#)

» [Update Address](#)

Purchase Details

» [Payment Options](#)

» [Order History](#)

» [View Purchased Documents](#)

Profile Information



[Communications Preferences](#)

[Profession and Education](#)

» [Technical Interests](#)

Need Help?

» **US & Canada:** +1 800 678 4333

» **Worldwide:** +1 732 981 0060

» [Contact & Support](#)

[About IEEE Xplore](#) [Contact Us](#) [Help](#) [Accessibility](#) [Terms of Use](#) [Nondiscrimination Policy](#) [Sitemap](#) [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2024 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.

