List of Publications – Halim Yanikomeroglu (updated on 21 January 2019)

[DBLP]
[Google Scholar]
[ResearchGate]
[Elsevier Mendeley]
[Guide2Research]

Submissions under Review


**Refereed Publications**

2019


[J129] Irem Bor-Yaliniz, Amr El-Keyi, and Halim Yanikomeroglu, “Spatial configuration of agile wireless networks with drone-BSs and user-in-the-loop”, *IEEE Transactions on Wireless Communications* (acceptance: 05 September 2018). [arXiv] [ResearchGate] [Xplore]


[J126] Irem Bor-Yaliniz, Mohamed Salem, Gamini Senarath, and Halim Yanikomeroglu, "Is 5G ready for drones?: A look into contemporary and prospective wireless networks from a standardization perspective", *IEEE Wireless Communications, Special Issue on Integrating UAVs into 5G and Beyond*, February 2019 (acceptance: 10 October 2018).


Wireless Communications and Networking Conference (WCNC) 2019, 15–18 April 2019, Marrakech, Morocco.


2018


[C230] Mehmet Cagri Ilter, Risto Wichman, Jyri Hamalainen, and Halim Yanikomeroglu, “A


2017


communication with random access and data aggregation: A stochastic geometry approach”, *IEEE Global Communications Conference (Globecom) 2017*, 4–8 December 2017, Singapore. [pdf]


[C214] Ebrahim Bedeer, Jeff Pugh, Colin Brown, and Halim Yanikomeroglu, "A measurement-based path loss and delay spread propagation models in VHF/UHF bands for IoT


2016


[J84] Jorge Cabrejas, Sandra Rogers, Daniel Calabuig, Yaser M. M. Fouad, Ramy H. Gohary,


[J74] Huseyin Ugur Yildiz, Bulent Tavli, and Halim Yanikomeroglu, “Transmission power


[C206] Ziwen Zhao, Sebastian Szyszkowicz, Tamer Beitalmal, and Halim Yanikomeroglu, “Spatial clustering in slotted ALOHA two-hop random access for machine type communication”, IEEE Global Communications Conference (Globecom) 2016, 4–8 December 2016, Washington, DC, USA. [pdf] [PresentationSlides]


[C204] Faraj Lagum, Sebastian Szyszkowicz, and Halim Yanikomeroglu, “Quantifying the regularity of perturbed triangular lattices using CoV-based metrics for modeling the locations of Base Stations in HetNets”, IEEE Vehicular Technology Conference (VTC2016-Fall), 18–21 September 2016, Montreal, QC, Canada. [pdf] [PresentationSlides]


Vehicular Technology Conference (VTC2016-Fall), 18–21 September 2016, Montreal, QC, Canada. [pdf] [PresentationSlides]


2015


2014


Meisam Mirahsan, Rainer Schoenen, and Halim Yanikomeroglu, “Statistical modeling of spatial traffic distribution with adjustable heterogeneity and BS-correlation in wireless cellular networks”, IEEE Global Communications Conference (Globecom) 2014, 8–12 December 2014, Austin, TX, USA. [pdf] [PresentationSlides]

Davut Incebacak, Bulent Tavli, and Halim Yanikomeroglu, “Trade-offs in sum-rate maximization and fairness in relay-enhanced OFDMA-based cellular networks”, IEEE Global Communications Conference (Globecom) 2014, 8–12 December 2014, Austin, TX, USA. [pdf] [PresentationSlides]

Rainer Schoenen and Halim Yanikomeroglu, “Resource pooling in network virtualization and heterogeneous scenarios using stochastic Petri nets”, IEEE Global Communications Conference (Globecom) 2014, 8–12 December 2014, Austin, TX, USA. [pdf]


Tamer Beitalmal and Halim Yanikomeroglu, “A set cover based algorithm for cell switch-off with different cell sorting criteria”, IEEE International Conference on Communications (ICC) 2014 Workshop on Small Cell and 5G Networks, 10–14 June 2014, Sydney, Australia. [pdf] [PresentationSlides]

Ramy Gohary and Halim Yanikomeroglu, “On the accuracy of the high SNR approximation of the differential entropy of signals in additive Gaussian noise”, IEEE

2013


2012


[J46] Ramy Gohary and Halim Yanikomeroglu, “Convergence of iterative water-filling with


[C151] Ramy Gohary and Halim Yanikomeroglu, "Grassmannian decode-and-forward achieves the ergodic high SNR capacity of the non-coherent MIMO relay channel within a constant gap", IEEE Information Theory Workshop (ITW 2012), 3–7 September 2012, Lausanne, Switzerland. [pdf]

[C150] Rainer Schoenen, Gurhan Bulu, Amir Mirtaheri, Tamer Beitelmal, and Halim Yanikomeroglu, “First survey results of quantified user behavior in user-in-the-loop scenarios for
sustainable wireless networks”, IEEE Vehicular Technology Conference (VTC2012-Fall), 3–6 September 2012, Quebec City, QC, Canada. [pdf]


2011

[J44] Imran Ansari, Saad Al-Ahmadi, Ferkan Yilmaz, Mohamed-Slim Alouini, and Halim Yanikomeroglu, “A new formula for the BER of binary modulations with dual-branch selection


[C129] Talha Ahmad, Saad Al-Ahmadi, Halim Yanikomeroglu, and Gary Boudreau, “Downlink


2010


[C120] Alireza Sharifian, Petar Djkic, Halim Yanikomeroglu, and Jietao Zhang, “Max-min fair resource allocation for multiuser amplify-and-forward relay networks”, IEEE Vehicular Technology Conference (VTC2010-Fall), 6 – 9 September 2010, Ottawa, ON, Canada. [pdf] [PresentationSlides]

[C119] Rui Yin, Yu Zhang, Jietao Zhang, Guanding Yu, Zhaoyang Zhang, and Halim
Yanikomeroglu, “Optimal relay location for fading relay channels”, IEEE Vehicular Technology Conference (VTC2010-Fall), 6 – 9 September 2010, Ottawa, ON, Canada.

[C118] Mohammad G. Khoshkholgh, Keivan Navaie, and Halim Yanikomeroglu, “Novel approaches to determine the optimal operating point of spectrum sensing in overlay spectrum sharing”, IEEE Vehicular Technology Conference (VTC2010-Fall), 6 – 9 September 2010, Ottawa, ON, Canada.

[C117] Soumitra Dixit, Shalini Periyalwar, and Halim Yanikomeroglu, “A competitive and dynamic pricing model for secondary users in infrastructure based wireless networks”, IEEE Vehicular Technology Conference (VTC2010-Fall), 6 – 9 September 2010, Ottawa, ON, Canada. [pdf] [PresentationSlides]


[C109] Mohamed Salem, Abdulkareem Adinoyi, Halim Yanikomeroglu, and Young-Doo Kim, “Nomadic relay-directed joint power and subchannel allocation in OFDMA-based cellular fixed...
relay networks”, IEEE Vehicular Technology Conference (VTC2010-Spring), 16 – 19 May 2010, Taipei, Taiwan. [pdf]


[C105] Muhammad Aljuaid and Halim Yanikomeroglu, “Investigating the validity of a Gaussian approximation for the distribution of the aggregate interference power in large wireless networks”, 25th Biennial Symposium on Communications (QBSC 2010), 12 – 14 May 2010, Queen’s University, Kingston, ON, Canada. [pdf]

[C104] Akram Bin Sediq, Petar Djukic, Halim Yanikomeroglu, and Jietao Zhang, “Near-optimal non-uniform constellation rearrangement for cooperative relaying”, 25th Biennial Symposium on Communications (QBSC 2010), 12 – 14 May 2010, Queen’s University, Kingston, ON, Canada.


2009


[C99] Sebastian Szyszkowicz and Halim Yanikomeroglu, “Fitting the modified power-lognormal to the sum of independent lognormals distribution”, IEEE Globecom 2009, 30 November – 4 December 2009, Honolulu, HI, USA. [pdf]


[C91] Saad Al-Ahmadi and Halim Yanikomeroglu, “On the role of the input power constraint in the beamforming optimality range in TIMO channels”, Canadian Workshop on Information Theory (CWIT), 13 – 15 May 2009, Ottawa, ON, Canada. [pdf]


2007


2006


[C57] Keivan Navaie, Yanjian Liu, Muhammad Abaiii, Adrian Florea, Halim Yanikomeroglu, Rahim Tafazolli, “Routing mechanisms for multi-hop cellular communications in the WINNER


2005


2004


[C35] Halim Yanikomeroglu, "Cellular multihop communications: infrastructure-based relay network architecture for 4G wireless systems", the 22nd Queen's Biennial Symposium on Communications (QBSC'04), 1-3 June 2004, Queen's University, Kingston, Ontario, Canada; invited paper. [doc]


2003


[C24] Shoaev Hares, Halim Yanikomeroglu, and Bassam Hashem, "Multi-hop relaying with diversity in peer-to-peer networks", World Wireless Research Forum (WWRF9) meeting no. 9, 1-2 July 2003, Zurich, Switzerland. [doc]


2002


[C18] Mohamed H. Ahmed, Samy Mahmoud, and Halim Yanikomeroglu, "A simulation testbed for radio resource management in broadband fixed wireless access", 21st Queen's Biennial Symposium on Communications (QBSC'02), 2-5 June, 2002, Queen's University, Kingston, ON, Canada. [pdf]


2001


2000


[C11] Halim Yanikomeroglu and Elvino S. Sousa, "Effects of correlated interference on the
potential linear antenna gain in CDMA macrodiversity systems", Proc. IEEE International
Conference on Communications (ICC'00), vol. 2, pp. 1009-1014, 18-22 June 2000, New Orleans,
LA, USA. [pdf]

1999

[C10] Bassam Hashem and Halim Yanikomeroglu, "Power control for code-division multiple
access cellular systems", Proc. International Congress on Dynamics and Control of Control
Systems (DYCONS'99), 5-6 August 1999, Ottawa, ON, Canada. [pdf]

[C09] Halim Yanikomeroglu, "On the reverse link capacity of CDMA macrodiversity systems",
Proc. the 6th Canadian Workshop on Information Theory (CWIT'99), pp. 99-102, 15-18 June
1999, Kingston, ON, Canada.

[C08] Halim Yanikomeroglu and Elvino S. Sousa, "Correlated interference analysis in CDMA
23-28, 6-10 June 1999, Vancouver, BC, Canada. [pdf]

1998

[C07] Halim Yanikomeroglu and Elvino S. Sousa, "SIR-balanced macro power control for
CDMA sectorized distributed antenna systems", Proc. the 9th IEEE International Symposium on
Personal, Indoor, and Mobile Radio Communications (PIMRC'98), 8-11 September 1998,
Boston, Massachusetts, USA. [pdf]

[C06] Halim Yanikomeroglu and Elvino S. Sousa, "CDMA sectorized distributed antenna
system", Proc. International Symposium on Spread Spectrum Technology and Applications
(ISSSTA'98), pp. 792-797, 2-4 September 1998, Sun City, South Africa. [pdf]

[C05] Halim Yanikomeroglu and Elvino S. Sousa, "Power control and optimal number of
antenna elements in CDMA distributed antenna systems", Proc. IEEE International Conference
on Communications (ICC'98), pp. 1040-1045, 8-11 June 1998, Atlanta, Georgia, USA. [pdf]

1997

[J01] Halim Yanikomeroglu and Elvino S. Sousa, "Antenna interconnection strategies for
personal communication systems", IEEE Journal on Selected Areas in Communications, special
issue on Networking and Performance Issues of Personal Mobile Communications (JSAC-15),

[C04] Halim Yanikomeroglu and Elvino S. Sousa, "Interconnection strategies for wireless access
networks", Proc. the 8th IEEE International Symposium on Personal, Indoor, and Mobile Radio
Communications (PIMRC'97), vol. 3, pp. 882-886, 1-4 September 1997, Helsinki, Finland. [pdf]

[C03] Halim Yanikomeroglu and Elvino S. Sousa, "Steiner minimal tree architectures for the
interconnection of wireless access networks”, Proc. the 5th Canadian Workshop on Information Theory (CWIT'97), pp. 113-116, 3-6 June 1997, Toronto, ON, Canada.

1996


1993

[C01] Halim Yanikomeroglu and Elvino S. Sousa, "CDMA distributed antenna system for indoor wireless communications", in Proc. 2nd International Conference on Universal Personal Communications (ICUPC'93), pp. 990-994, October 1993, Ottawa, ON, Canada. [pdf]

Book Chapters


Selected Non-Refereed Publications

"WWRF WG4 - White Paper: Relay-Based Deployment Concepts for Wireless and Mobile Broadband Cellular Radio", prepared by contributions from thirteen researchers including H. Yanikomeroglu, Joint Workshop IEEE - WWRF, October 2003, New York, USA.

"Relay-Based Deployment Concepts White Paper", prepared by nine researchers including H. Yanikomeroglu, World Wireless Research Forum (WWRF) meeting no. 9, July 2003, Zurich, Switzerland.