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

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Submissions under Review


Refereed Publications

2019


Mohamed Alzenad and Halim Yanikomeroglu, “Coverage and rate analysis for vertical heterogeneous networks (VHetNets)”, IEEE Transactions on Wireless Communications (acceptance: 21 August 2019). [ResearchGate] [Xplore]

Cankal Altun, Bulent Tavli, and Halim Yanikomeroglu, “Liberalization of digital twins of IoT enabled home appliances via blockchains and absolute ownership rights”, IEEE Communications Magazine (acceptance: 02 July 2019). [ResearchGate]


[J140] Hossein Khoshnevis, Ian Marsland, Hamid Jafarkhani, and Halim Yanikomeroglu, “Space-time signal design for multilevel polar coding in slow fading broadcast channels”, *IEEE Transactions on Communications*, vol. 67, no. 9, pp. 5940-5952, September 2019. [arXiv] [ResearchGate] [Xplore]


[J137] Hossein Vaezy, Mohammad Javad Omidi, Mohammad Mahdi Naghsh, and Halim Yanikomeroglu, “Energy efficient precoder design in MIMO interference channels: The selfish, unselfish, worst-case, and robust methods”, *IEEE Transactions on Communications*, vol. 67, no. 8, pp. 5377-5389, August 2019. [ResearchGate] [Xplore]


[J135] Hossein Vaezy, Mohammad Javad Omidi, and Halim Yanikomeroglu, “Energy efficient precoder design in multi-user MIMO systems with imperfect channel state information”, *IEEE Wireless Communications Letters*, vol. 8, no. 3, pp. 669-672, June 2019. [arXiv] [ResearchGate] [Xplore]


[J133] Saeede Enayati, Hamid Saeedi, Hossein Pishro-Nik, and Halim Yanikomeroglu, “Moving aerial base station networks: Stochastic geometry analysis and design perspectives”, *IEEE Transactions on Wireless Communications*, vol. 18, no. 6, pp. 2977-2988, June 2019. [ResearchGate] [Xplore]


[C239] Amin Farajzadeh, Ozgur Ercetin, and Halim Yanikomeroglu, “UAV data collection over NOMA backscatter networks: UAV altitude and trajectory optimization”, IEEE International Conference in Communications (ICC) 2019, Shanghai, China, 20–24 May 2019. [ResearchGate] [Xplore]


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[J124] Jing Guo, Xiangyun Zhou, Salman Durrani, and Halim Yanikomeroglu, “Design of non-orthogonal multiple access enhanced backscatter communication”, *IEEE Transactions on Wireless Communications*, vol. 17, no. 10, pp. 6837-6852, October 2018. [arXiv] [ResearchGate] [Xplore]

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self-interference cancellation scheme for channel-unaware differential space-time two-way relay networks”, *IEEE Transactions on Wireless Communications*, vol. 17, no. 2, pp. 1226-1241, February 2018. [ResearchGate] [Xplore]

**[J110]** Mohamed Alzenad, Muhammad Z. Shakir, Halim Yanikomeroglu, and Mohamed-Slim Alouini, “FSO-based vertical backhaul/fronthaul framework for 5G+ wireless networks”, *IEEE Communications Magazine*, vol. 56, no. 1, pp. 218-224, January 2018. [arXiv] [ResearchGate] [Xplore]

**[C231]** Mohamed Alzenad and Halim Yanikomeroglu, “Coverage and rate analysis for unmanned aerial vehicle base stations with LoS/NLoS propagation”, *IEEE Globecom 2018 Workshops*, 9–13 December 2018, Abu Dhabi, UAE. [arXiv] [ResearchGate] [Xplore]


**[C228]** Xiaohui Zhou, Jing Guo, Salman Durrani, and Halim Yanikomeroglu, “Uplink coverage performance of an underlay drone cell for temporary events”, Invited Paper, *IEEE International Conference on Communications Workshops (ICCW) 2018*, 20–24 May 2018, Kansas City, MO, USA. [arXiv] [ResearchGate] [Xplore]


**[C226]** Taimour Aldalgamouni, Mehmet Cagri Ilter, Osamah S. Badarneh, and Halim Yanikomeroglu, “Performance analysis of Fisher-Snedecor F composite fading channels”, *IEEE Middle East and North Africa Communications Conference (MENACOMM) 2018*, 18–20 April 2018, Jounieh, Lebanon. [ResearchGate] [Xplore]


**[C224]** Rozhina Ghanavi, Elham Kalantari, Maryam Sabbaghian, Halim Yanikomeroglu, and Abbas Yongacoglu, “Efficient 3D aerial base station placement considering users mobility by
reinforcement learning”, *IEEE Wireless Communications and Networking Conference (WCNC) 2018*, 15–18 April 2018, Barcelona, Spain. [arXiv] [ResearchGate] [Xplore]

[C223] Fatima Ezzahra Airod, Houda Chafnaji, and Halim Yanikomeroglu, “Performance analysis of low latency multiple full-duplex selective decode and forward relays”, *IEEE Wireless Communications and Networking Conference (WCNC) 2018*, 15–18 April 2018, Barcelona, Spain. [arXiv] [ResearchGate] [Xplore]

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[J103] Jing Guo, Salman Durrani, Xiangyun Zhou, and Halim Yanikomeroglu, “Massive machine type communication with data aggregation and resource scheduling”, *IEEE Transactions on Communications*, vol. 65, no. 9, pp. 4012-4026, September 2017. [arXiv] [ResearchGate] [Xplore]

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[C221] Elham Kalantari, Irem Bor-Yaliniz, Abbas Yongacoglu, and Halim Yanikomeroglu, “User association and bandwidth allocation for terrestrial and aerial base stations with backhaul considerations”, Invited Paper, IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC) 2017, 08–13 October 2017, Montreal, Quebec, Canada. [arXiv] [ResearchGate] [Xplore]

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[C217] Amr El-Keyi, Hamza Umit Sokun, Tu Ngoc Nguyen, Qiubo Ye, Haiying Julie Zhu, and Halim Yanikomeroglu, “A novel probabilistic path loss model for simulating coexistence between 802.11 and 802.15.4 networks in smart home environments”, *IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)* 2017, 08–13 October 2017, Montreal, Quebec, Canada. [ResearchGate] [Xplore]


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[C210] Elham Kalantari, Muhammad Zeeshan Shakir, Halim Yanikomeroglu, and Abbas Yongacoglu, “Backhaul-aware robust 3D drone placement in 5G+ wireless networks”, *IEEE International Conference on Communications (ICC) Workshops 2017 – Workshop on Flexible Networks (FlexNets)*, 21 May 2017, Paris, France. [arXiv] [ResearchGate] [Xplore]

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[J80] Sebastian Szyszkiowicz, Andres Lou, and Halim Yanikomeroglu, “Automated placement of individual millimeter-wave wall-mounted base stations for line-of-sight coverage of outdoor urban areas”, *IEEE Wireless Communications Letters*, vol. 5, no. 3, pp. 316-319, June 2016. [ResearchGate] [Xplore]

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[J77] Mohammad Reza Abedi, Nader Mokari, Mohammad Reza Javan, and Halim Yanikomeroglu, “Limited rate feedback scheme for resource allocation in secure relay-assisted OFDMA networks”, *IEEE Transactions on Wireless Communications*, vol. 15, no. 4, pp. 2604-2618, April 2016. [ResearchGate] [Xplore]


[J75] Rozita Rashtchi, Ramy H. Gohary, and Halim Yanikomeroglu, “Generalized cross-layer designs for generic half-duplex multicarrier wireless networks with frequency reuse”, *IEEE Transactions on Wireless Communications*, vol. 15, no. 1, pp. 458-471, January 2016. [ResearchGate] [arXiv] [Xplore]


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[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. [PresentationSlides]


[C202] Elham Kalantari, Halim Yanikomeroglu, and Abbas Yongacoglu, “On the number and 3D placement of drone base stations in wireless cellular networks”, *IEEE Vehicular Technology Conference (VTC2016-Fall)*, 18–21 September 2016, Montreal, QC, Canada. [arXiv] [ResearchGate] [PresentationSlides]


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[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]


[C113] Saad Al-Ahmadi and Halim Yanikomeroglu, “On the statistics of the sum of correlated


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[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]


[C33] Hakan Bolukbasi, Halim Yanikomeroglu, David D. Falconer, and Shalini Periyalwar, "On
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[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


Keivan Navaie and Halim Yanikomeroglu, "Multi-route and multi-user diversity in


**Selected Non-Refereed Publications**

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"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.
