List of Publications – Halim Yanikomeroglu  
(updated on 21 Feb 2021)

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DBLP
Google Scholar
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Submissions under Review


Musa Otaru, Abdulkareem Adinoyi, Mohammed Ajiya, Mohammed Aljlayl, and Halim Yanikomeroglu, “Modified ARQ-based cooperative relaying scheme for a delay tolerant network”, *IEEE ICC Workshops 2021*, 14–18 June 2021, Montreal, Quebec, Canada.


Nadir Adam, Cristiano Tapparello, Wendi Heinzelman, and Halim Yanikomeroglu, “Utilizing ground nodes with multi-hop capabilities to extend the range of UAV-BSs”, *IEEE ICC Workshops 2021*, 14–18 June 2021, Montreal, Quebec, Canada.

**Refereed Publications**

2021


Wael Jaafar and Halim Yanikomeroglu, “Dynamics of laser-charged UAVs: A battery perspective”, *IEEE Internet of Things Journal* (acceptance: 23 Dec 2020). [arXiv] [ResearchGate] [Xplore]

Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “Faded-experience trust region policy optimization for model-free power allocation in interference channel”, *IEEE Wireless Communications Letters* (acceptance: 08 Dec 2020). [arXiv] [Xplore]

Medhat Elsayed, Melike Erol-Kantarci, and Halim Yanikomeroglu, “Transfer reinforcement learning for 5G-NR mm-wave networks”, *IEEE Transactions on Wireless Communications* (acceptance: 01 Dec 2020). [arXiv] [ResearchGate] [Xplore]

Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “Learning power control from a fixed batch of data”, *IEEE Wireless Communications Letters* (acceptance: 01 Nov 2020). [arXiv] [ResearchGate] [Xplore]


Nesrine Cherif, Mohamed Alzenad, Halim Yanikomeroglu, and Abbas Yongacoglu, “Downlink coverage and rate analysis of an aerial user in vertical heterogeneous networks (VHetNets)”, *IEEE Transactions on Wireless Communications* (acceptance: 17 Oct 2020). [arXiv] [ResearchGate] [Xplore]


Qiqi Ren, Jian Chen, Omid Abbasi, Gunes Karabulut Kurt, Halim Yanikomeroglu, and F. Richard Yu, “An application-driven non-orthogonal multiple access enabled computation offloading scheme”, *IEEE Internet of Things Journal*, vol. 8, no. 3, pp. 1453-1466, February 1, 2021. [arXiv] [ResearchGate] [Xplore]

Md Sahabul Alam, Gunes Karabulut Kurt, Halim Yanikomeroglu, Peiying Zhu, and Ngoc Dung Dao, “High altitude platform station based super macro base station constellations”, *IEEE Communications Magazine*, vol. 59, no. 1, pp. 103-109, January 2021. [arXiv] [ResearchGate] [Xplore]


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[J150] Amin Farajzadeh, Ozgur Ercetin, and Halim Yanikomeroglu, “Mobility-assisted over-the-air computation for backscatter sensor networks”, *IEEE Wireless Communications Letters*, vol. 9, no. 5, May 2020. [arXiv] [ResearchGate] [Xplore]


[J148] Rawan Alkurd, Ibrahim Abualhaol, and Halim Yanikomeroglu, “Big data and AI-based framework to enable personalization in wireless networks”, *IEEE Communications Magazine*, vol. 58, no. 3, pp. 18-24, March 2020. [ResearchGate] [Xplore]


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[C259] Ozan Alp Topal, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Securing the inter-spacecraft links: Doppler frequency shift based physical layer key generation”, The 8th Annual IEEE International Conference on Wireless for Space and Extreme Environments (WISEE 2020), 12–14 October 2020, Venice, Italy. [ResearchGate] [Xplore]


[C255] Monirosharieh Vameghrestahbanati, Ian Marsland, Ramy H. Gohary, and Halim Yanikomeroglu, “Hypercube-based multidimensional constellation design for uplink SCMA systems”, IEEE International Conference on Communications Workshops (ICCW) 2020, 07–11 June 2020, Dublin, Ireland. [ResearchGate] [Xplore]

[C254] Irem Bor-Yaliniz, Gamini Senarath, and Halim Yanikomeroglu, “Aerial access nodes and virtual wireless access: A look into integration strategies”, IEEE International Conference on Communications (ICC) 2020, 07–11 June 2020, Dublin, Ireland. [ResearchGate] [Xplore]

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Rozhina Ghanavi, Maryam Sabbaghian, and Halim Yanikomeroglu, “Q-Learning based aerial base station placement for fairness enhancement in mobile networks”, *IEEE Global Conference on Signal Processing and Information Processing (GlobalSIP) 2019*, Ottawa, Ontario, Canada, 11–14 November 2019. [ResearchGate] [Xplore]


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Conference on Data Science, Machine Learning and Statistics (DMS) 2019, Van, Turkey, 26–29 June 2019. [pdf] [ResearchGate]


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[C221] Elham Kalantari, Irem Bor-Yalınoz, 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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[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.
