List of Publications – Halim Yanikomeroglu  
(updated on 09 Nov 2021)  

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DBLP  
Google Scholar  
ResearchGate  
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Submissions under Review


Qi Qi Ren, Omid Abbasi, Gunes Karabulut Kurt, Halim Yanikomeroglu, and Jian Chen, “Caching and computation offloading in high altitude platform station (HAPS) assisted intelligent transportation systems”, under review in IEEE Transactions on Wireless Communications (submission: 31 May 2021, 1st results: 15 Sep 2021). [arXiv]

**Refereed Publications**

**2022**


**2021**


Michel Kulhandjian, Gunes Karabulut Kurt, Hovannes Kulhandjian, Halim Yanikomeroglu, and Claude D’Amours, “NOMA computation over multi-access channels for multimodal sensing”, *IEEE Wireless Communications Letters*, vol. 10, no. 11, pp. 2577-2581, November 2021. [Xplore]

Hichem Semira, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “Multi-user joint maximum-likelihood detection in uplink IoT NOMA networks: Removing the error floor”, *IEEE Wireless Communications Letters*, vol. 10, no. 11, pp. 2459-2463, November 2021. [arXiv] [Xplore]

Aizaz U. Chaudhry and Halim Yanikomeroglu, “Free space optics for next-generation satellite networks”, *IEEE Consumer Electronics Magazine*, vol. 10, no. 6, pp. 21-31, 01 November 2021. [arXiv] [ResearchGate] [Xplore]

Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “A lightweight machine learning assisted power optimization for minimum error in NOMA-CRS over Nakagami-m channels”, *IEEE Transactions on Vehicular Technology*, vol. 70, no. 10, pp. 11067-11072, October 2021. [arXiv] [Xplore]

Nesrine Cherif, Wael Jaafar, Halim Yanikomeroglu, and Abbas Yongacoglu, “3D Aerial highway: The key enabler of the retail industry transformation”, *IEEE Communications Magazine*, vol. 25, no. 9, pp. 2790-2794, September 2021. [arXiv] [ResearchGate] [Xplore]

Caner Goztepe, Salih Büyükçorak, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Localization threats in next-generation wireless networks”, *IEEE Communications Magazine*, vol. 59, no. 9, pp. 65-71, September 2021. [arXiv] [ResearchGate] [Xplore]

[J200] Yucel Aydin, Gunes Karabulut Kurt, Enver Ozdemir, and Halim Yanikomeroglu, “Group handover for drone base stations”, IEEE Internet of Things Journal, vol. 8, no. 18, pp. 13876-13887, 15 September 2021. [arXiv] [ResearchGate] [Xplore]


[C282] Qiqi Ren, Omid Abbasi, Gunes Karabulut Kurt, Halim Yanikomeroglu, and Jian Chen, “High altitude platform station (HAPS) assisted computing for intelligent transportation systems”, *IEEE Global Communications Conference (Globecom) 2021*, 7–11 December 2021, Madrid, Spain.


[C280] Nadir Adam, Cristiano Tapparello, Wendi Heinzelman, and Halim Yanikomeroglu, “Utilizing ground nodes with multi-hop capabilities to extend the range of UAV-BSs”, *IEEE 5G World Forum 2021*, 13–15 October 2021, Virtual Event (Montreal, Canada).


and Mobile Radio Communications (PIMRC) 2021, 13–16 September 2021 || Virtual Conference. [arXiv] [ResearchGate]


[C274] Rawan Alkurd, Ibrahim Abualhaol, and Halim Yanikomeroglu, “User satisfaction prediction framework for personalized wireless networks: A DNN approach”, IEEE International Conference on Communications Workshops (ICCW) 2021, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [Xplore]

[C273] Mohammed Younis Abdelsadek, Halim Yanikomeroglu, and Gunes Karabulut Kurt, “Future ultra-dense LEO satellite networks: A cell-free massive MIMO approach”, IEEE International Conference on Communications Workshops (ICCW) 2021, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [arXiv] [ResearchGate] [Xplore]

[C272] Nesrine Cherif, Wael Jaafar, Halim Yanikomeroglu, and Abbas Yongacoglu, “Disconnectivity-aware energy-efficient cargo-UAV trajectory planning with minimum handoffs”, IEEE International Conference on Communications (ICC) 2021, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [ResearchGate] [Xplore]

[C271] Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “RSS-based UAV-BS 3-D mobility management via policy gradient deep reinforcement learning”, IEEE International Conference on Communications (ICC) 2021, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [arXiv] [ResearchGate] [Xplore]

[C270] Kursat Tekbıyık, Gunes Karabulut Kurt, Chongwen Huang, Ali Rıza Ektı, Halim Yanikomeroglu, “Channel estimation for full-duplex RIS-assisted HAPS backhauling with graph attention networks”, IEEE International Conference on Communications (ICC) 2021, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [arXiv] [ResearchGate] [Xplore]

[C269] Islam Abu Mahady, Ebrahim Bedeer, Salama Ikki, and Halim Yanikomeroglu, “NOMA spectral efficiency maximization with improper Gaussian signaling and SIC imperfection”, IEEE International Conference on Communications (ICC) 2021, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [Xplore]

[C268] Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “Power control in spectrum sharing systems with almost-zero inter-system signaling overhead”, IEEE International
Aybuke Cengiz, Semiha Tedik Basaran, Berna Ozbek, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Approximation of correlation matrix for high altitude platform stations”, The 29th IEEE Conference on Signal Processing and Communications Applications (SIU 2021), 9–11 June 2021 || Virtual Conference. [Xplore]

Olfa Ben Yahia, Eylem Erdogan, Gunes Karabulut Kurt, Ibrahim Altunbas, and Halim Yanikomeroglu, “Physical layer security framework for optical non-terrestrial networks”, Invited Paper, 28th International Conference on Telecommunications (ICT 2021), 1-3 June 2021 || Virtual Conference. [arXiv] [ResearchGate] [Xplore]


Omid Abbasi and Halim Yanikomeroglu, “Rate-splitting and NOMA-enabled uplink user cooperation”, IEEE Wireless Communications and Networking Conference Workshops (WCNCW) 2021, 29 March – 01 April 2021, Nanjing, China | hybrid. [ResearchGate] [Xplore]

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Mohammad Reza Abedi, Mohammad Reza Javan, Nader Mokari Yamchi, and Halim Yanikomeroglu, “3D-MIMO dual communications in SCMA-based secure HetNets”, IEEE


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, pp. 675-678, May 2020. [arXiv] [ResearchGate] [Xplore]


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[C260] Halim Yanikomeroglu, “Wireless access architecture: The next 20+ years”, ACM International Conference on Future Networks and Distributed Systems (ICFNDS), November 2020, Article No: 40, Pages 1, 26–27 November 2020, St. Petersburg, Russia. [ResearchGate] [ACM]

[C259] Ozan Alp Topal, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Securing the interspacecraft 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 (online). [ResearchGate] [Xplore]


[C256] Yassine Hmamouche, Mustapha Benjillali, Samir Saudi, and Halim Yanikomeroglu, “Uplink coverage and handoff rate with realistic power control models and blind cell search”, 2020 IEEE 31st Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 31 August – 03 September 2020, London, UK (online). [HAL] [ResearchGate] [Xplore]


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[J131] Hossein Khoshnevis, Ian Marsland, and Halim Yanikomeroglu, “Throughput-based design for polar coded-modulation”, *IEEE Transactions on Communications*, vol. 67, no. 3, pp. 1770-1782, March 2019. [arXiv] [ResearchGate] [Xplore]


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[C233] Cihan Tugrul Cicek, Hakan Gultekin, Bulent Tavli, and Halim Yanikomeroglu, “UAV Base station location optimization for next generation wireless networks: Overview and future research directions”, IEEE UVS-Oman 2019, Muscat, Oman, 5–7 February 2019. [arXiv] [ResearchGate] [Xplore]

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[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]

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[J98] Quoc-Nam Le-The, Tamer Beitelmal, Faraj Lagum, Sebastian S. Szyszko, and Halim Yanikomeroglu, “Cell switch-off algorithms for spatially irregular base station deployments”, *IEEE Wireless Communications Letters*, vol. 6, no. 3, pp. 354-357, June 2017. [ResearchGate] [Xplore]

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[C219] Hossein Khoshnevis, Ian Marsland, Hamid Jafarkhani, and Halim Yanikomeroglu, “Joint optimization of polar codes and STBCs”, *IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC) 2017*, 08–13 October 2017, Montreal, Quebec, Canada. [ResearchGate] [Xplore]

[C218] Hossein Khoshnevis, Ian Marsland, and Halim Yanikomeroglu, “Polar coded multi-antenna multidimensional constellations in partially coherent channels”, *IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC) 2017*, 08–13 October 2017, Montreal, Quebec, Canada. [ResearchGate] [Xplore]

[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]


[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
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[C213] Amr El-Keyi, Oktay Ureten, Trevor Yensen, and Halim Yanikomeroglu, “LTE physical-layer identity detection in the presence of jamming”, *IEEE Vehicular Technology Conference (VTC2017-Fall)*, 24–27 September 2017, Toronto, Canada. [ResearchGate] [Xplore]

[C212] Hossein Khoshnevis, Ian Marsland, and Halim Yanikomeroglu, "Throughput-based design of polar codes", *IEEE Vehicular Technology Conference (VTC2017-Fall)*, 24–27 September 2017, Toronto, Canada. [ResearchGate] [Xplore]


[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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