Breakdown of 249 Published Journal Papers (241 IEEE + 8 others)

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<td>Wireless Communications and Mobile Computing (Hindawi)</td>
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**Submissions under Review**


[JS03] Omid Abbasi and Halim Yanikomeroglu, “UxNB-enabled cell-free massive MIMO with HAPS-assisted sub-THz backhauling”, under review in *IEEE Transactions on Wireless Communications* (submission: 05 Dec 2021, 1st results: 11 Apr 2022, 1st revision: 21 Jul 2022).


Rozita Shafie, Mohammad Javad Omidi, Omid Abbasi, and Halim Yanikomeroglu, “Power allocation for a HAPS-enabled MIMO-NOMA system with spatially correlated channels”, *IEEE Globecom Workshops 2022*, 04–08 December 2022, Rio de Janeiro, Brazil.


Safwan Alfattani, Animesh Yadav, Halim Yanikomeroglu, and Abbas Yongacoglu, “Beyond-cell communications via HAPS-RIS”, *IEEE Globecom Workshops 2022*, 04–08 December 2022, Rio de Janeiro, Brazil. [arXiv] [TechrXiv]

Gregory Dzhezyan, Michel Kulhandjian, Hovannes Kulhandjian, Claude D’Amours, and Halim Yanikomeroglu, “Implementation of faster-than-Nyquist signaling using software defined radios”, *IEEE Military Communications Conference (Milcom) 2022*, 28 November – 02 December 2022, Rockville, MD, USA.


**Refereed Publications**

2022


Omid Abbasi and Halim Yanikomeroglu, “Transmission scheme, detection and power allocation for uplink user cooperation with NOMA and RSMA”, IEEE Transactions on Wireless Communications (acceptance: 19 Jul 2022). [arXiv] [ResearchGate] [Xplore]

Weili Wang, Chengchao Liang, Qianbin Chen, Lun Tang, Halim Yanikomeroglu, and Tong Liu. “Distributed online anomaly detection for virtualized network slicing environment”, IEEE Transactions on Vehicular Technology (acceptance: 12 Jul 2022). [arXiv] [ResearchGate] [Xplore]


Qiqi 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”, IEEE Transactions on Wireless Communications (acceptance: 27 Apr 2022). [arXiv] [ResearchGate] [Xplore]

Aizaz U. Chaudhry and Halim Yanikomeroglu, “When to crossover from Earth to space for lower latency data communications?”, IEEE Transactions on Aerospace and Electronic Systems (acceptance: 24 Feb 2022). [arXiv] [ResearchGate] [Xplore]


scheduling”, *IEEE Communications Letters*, vol. 26, no. 4, pp. 882-886, April 2022. [arXiv] [ResearchGate] [Xplore]

[J218] Goldwyn Millar, Michel Kulhandjian, Ayse Alaca, Saban Alaca, Claude D’Amours, and Halim Yanikomeroglu, “Low-density spreading design based on an algebraic scheme for NOMA systems”, *IEEE Wireless Communications Letters*, vol. 11, no. 4, pp. 68-702, April 2022. [arXiv] [ResearchGate] [Xplore]

[J217] Sepehr Rezvani, Eduard A. Jorswieck, Roghayeh Joda, and Halim Yanikomeroglu, “Optimal power allocation in downlink multicarrier NOMA systems: Theory and fast algorithms”, *IEEE Journal on Selected Areas in Communications*, vol. 40, no. 4, pp. 1162-1189, April 2022. [arXiv] [ResearchGate] [Xplore]

[J216] Olfa Ben Yahia, Eylem Erdogan, Gunes Karabulut Kurt, Ibrahim Altunbas, and Halim Yanikomeroglu, “A weather-dependent hybrid RF/FSO satellite communication for improved power efficiency”, *IEEE Wireless Communications Letters*, vol. 11, no. 3, pp. 573-577, March 2022. [arXiv] [ResearchGate] [Xplore]


[C290] Isam Eddine Lamri, Sarosh Ahmad, Wael Jaafar, Mohammad Alibakhshikenari, and Halim Yanikomeroglu, “Circularly polarized dielectric resonator antenna for the Terahertz band
applications”, 32nd IEEE International Symposium on Space THz Technology (ISSTT 2022), 16–20 October 2022, Baeza, Andalusia, Spain.


[C284] Omid Abbasi and Halim Yanikomeroglu, “A cell-free scheme for UAV base stations with HAPS-assisted backhauling in terahertz band”, IEEE International Conference on Communications (ICC 2022), 16–20 May 2022, Seoul, Korea. [Xplore]


2021 (47 IEEE journal papers + 20 conference papers)


[J210] Zhaleh Sadreddini, Erkan Guler, Mohsen Khalily, and Halim Yanikomeroglu, “MRIRS: Mobile ad hoc routing assisted with intelligent reflecting surfaces”, *IEEE Transactions on Cognitive Communications and Networking*, vol. 7, no. 4, pp. 1333-1346, December 2021. [ResearchGate] [Xplore]


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[J204] 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]

[J203] 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]


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[J188] Mehmet Cagri Ilter, Risto Wichman, Jyri Hamalainen, Halim Yanikomeroglu, and Hong-Chuan Yang, “Data-oriented view for convolutional coding with adaptive irregular constellations”, *IEEE Communications Letters*, vol. 25, no. 6, pp. 1771-1775, June 2021. [ResearchGate] [Xplore]


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Communications Letters, vol. 10, no. 5, pp. 1133-1137, May 2021. [arXiv] [ResearchGate] [Xplore]


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[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.


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[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 Conference on Communications (ICC) 2021*, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [arXiv] [ResearchGate] [Xplore]


[C264] 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]

[C263] Nadir Adam, Cristiano Tapparello, Wendi Heinzelman, and Halim Yanikomeroglu, “Placement optimization of multiple UAV base stations”, *IEEE Wireless Communications and Networking Conference (WCNC) 2021*, 29 March – 01 April 2021, Nanjing, China | hybrid. [ResearchGate] [Xplore]

2020 (21 IEEE journal papers + 12 conference papers)


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[J157] Lina Bariah, Sami Muhaidat, Paschalis Sofotasios, Sanjeev Gurugopinath, Walaa Hamouda, and Halim Yanikomeroglu, “Non-orthogonal multiple access in the presence of additive generalized Gaussian noise”, IEEE Communications Letters, vol. 24, no. 10, pp. 2137-2141, October 2020. [arXiv] [ResearchGate] [Xplore]


[J155] Arman Azizi, Saeedeh Parsaeefard, Mohammad Reza Javan, Nader Mokari, and Halim Yanikomeroglu, “Profit maximization in 5G+ networks with heterogeneous aerial and ground base
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2019 (21 IEEE journal papers + 18 conference papers)


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, vol. 18, no. 2, pp. 753-768, February 2019. [arXiv] [ResearchGate] [Xplore]


Safwan Alfattani, Wael Jaafar, Halim Yanikomeroglu, and Abbas Yongacoglu, “Multi-UAV data collection framework for wireless sensor networks”, IEEE Global Communications Conference (Globecom) 2019, 09–13 December 2019, Waikoloa, Hawaii, USA. [ResearchGate] [Xplore]

Nesrine Cherif, Mohamed Alzenad, Halim Yanikomeroglu, and Abbas Yongacoglu, “Downlink coverage analysis of an aerial user in vertical heterogeneous networks”, IEEE Global Communications Conference (Globecom) 2019, 09–13 December 2019, Waikoloa, Hawaii, USA. [Xplore]

Musa Usman Otaru, Mohammed Ajiya, Abdulkareem Adinoyi, Mohammed Aljlayl, and Halim Yanikomeroglu, “An ARQ-based cooperative relaying scheme for 5G IoT slice”, IEEE Global Conference on Internet of Things (GCIoT), 04–07 December 2019, Dubai, UAE. [ResearchGate]

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]


Recep Ozdag and Halim Yanikomeroglu, “A new meta-heuristic approach for 3D placement of multiple unmanned aerial vehicle base stations in wireless networks”, International
Conference on Data Science, Machine Learning and Statistics (DMS) 2019, Van, Turkey, 26–29 June 2019. [pdf] [ResearchGate]


[C240] 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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[J100] Mohamed Alzenad, Amr El-Keyi, Faraj Lagum, and Halim Yanikomeroglu, “3D placement of an unmanned aerial vehicle base station (UAV-BS) for energy-efficient maximal coverage”, *IEEE Wireless Communications Letters*, vol. 6, no. 3, pp. 434-437, August 2017. [arXiv] [ResearchGate] [Xplore]

[J98] Quoc-Nam Le-The, Tamer Beitelmal, Faraj Lagum, Sebastian S. Szyszkwowicz, 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]


[J92] Faraj Lagum, Quoc-Nam Le-The, Tamer Beitelmal, Sebastian S. Szyszkwowicz, and Halim Yanikomeroglu, “Cell switch-off for networks deployed with variable spatial regularity”, *IEEE Wireless Communications Letters*, vol. 6, no. 2, pp. 234-237, April 2017. [ResearchGate] [Xplore]

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