

List of Publications – Halim Yanikomeroglu

(updated on 23 Jan 2022)

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Breakdown of 225 Published Journal Papers

No of papers	Journal	Impact Factor
36	IEEE Transactions on Wireless Communications	7.016
26	IEEE Transactions on Vehicular Technology	5.978
25	IEEE Access	3.367
21	IEEE Wireless Communications Letters	4.348
21	IEEE Communications Letters	3.436
16	IEEE Communications Magazine	9.619
16	IEEE Transactions on Communications	5.083
8	IEEE Internet of Things Journal	9.471
7	IEEE Transactions on Mobile Computing	5.577
5	IEEE Journal on Selected Areas in Communications	9.144
4	IEEE Communications Surveys & Tutorials	25.249
4	IEEE Wireless Communications Magazine	11.979
4	IEEE Vehicular Technology Magazine	10.384
4	IEEE Transactions on Information Theory	2.501
4	IEEE Open Journal of the Communications Society	N/A
2	IEEE Consumer Electronics Magazine	3.789
2	IEEE Photonics Journal	2.443
2	IEEE Transactions on Green Communications and Networking	N/A
2	IEEE Open Journal of Vehicular Technology	N/A
1	IEEE, Proceedings of the	10.961
1	IEEE Transactions on Signal Processing	4.931
1	IEEE Transactions on Cognitive Communications and Networking	4.341
1	IEEE Transactions on Aerospace and Electronic Systems	4.102
1	IEEE Antennas and Wireless Propagation Letters	3.834
1	IEEE Sensors Journal	3.301
1	IEEE Journal of Radio Frequency Identification	N/A
1	IEEE Networking Letters	N/A
Earlier publications (non-IEEE)		
3	Eurasip Journal on Wireless Communications Networking (Springer)	2.455
2	IET Communications	1.542
1	Pervasive and Mobile Computing Journal (Elsevier)	3.453
1	Transactions on Emerging Telecommunications Technologies (Wiley)	2.638
1	Wireless Communications and Mobile Computing (Hindawi)	2.336

Submissions under Review

[JS29] Wael Jaafar, Lina Bariah, Sami Muhaidat, and Halim Yanikomeroglu, “Time-switching and phase-shifting control for RIS-assisted SWIPT communications”, under review in *IEEE Wireless Communications Letters* (submission: 19 Jan 2022).

[JS28] Tolga Ovatman, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “An accurate model for computation offloading and a HAPS-based case study”, under review in *IEEE Transactions on Aerospace and Electronic Systems* (submission: 19 Jan 2022).

[JS27] Wael Jaafar and Halim Yanikomeroglu, “HAPS-ITS: Enabling future ITS services in trans-continental highways”, under review in *IEEE Communications Magazine* (submission: 17 Jan 2022). [[arXiv](#)] [[ResearchGate](#)]

[JS26] Mohammad Parvini, Amir Hossein Zarif, Ali Nouruzi, Nader Mokari, Mohammad Reza Javan, Bijan Abbasi, Amir Ghasemi Senior, and Halim Yanikomeroglu, “A comprehensive survey of spectrum sharing schemes from a standardization and implementation perspective”, under review in *IEEE Communications and Tutorials* (submission: 16 Jan 2022).

[JS25] Yucel Aydin, Gunes Karabulut Kurt, Enver Ozdemir, and Halim Yanikomeroglu, “Authentication and handover challenges and methods for drone swarms”, under review in *IEEE Journal of Radio Frequency Identification* (submission: 14 Jan 2022). [[arXiv](#)] [[ResearchGate](#)]

[JS24] Mohsen Tajallifar, Ahmad R. Sharafat, and Halim Yanikomeroglu, “Robust and feasible QoS-aware mmWave massive MIMO hybrid beamforming”, under review in *IEEE Transactions on Wireless Communications* (submission: 07 Jan 2022).

[JS23] Hichem Semira, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “Error performance analysis of multi-user detection in uplink-NOMA with adaptive M-QAM”, under review in *IEEE Wireless Communications Letters* (submission: 07 Jan 2022).

[JS22] Najmeh Banitalebi, Paeiz Azmi, Nader Mokari, Atefeh Hajjiamali Arani, and Halim Yanikomeroglu, “Distributed learning based resource allocation for self-organizing C-V2X communication in cellular networks”, under review in *IEEE Transactions on Network and Service Management* (submission: 04 Jan 2022).

[JS21] Michel Kulhandjian, Hovannes Kulhandjian, Claude D’Amours, Halim Yanikomeroglu, Dimitris A. Pados, and Gurgun Khachatrian, “Low-complexity decoder for overloaded uniquely decodable synchronous CDMA”, under review in *IEEE Access* (submission: 01 Jan 2022). [[arXiv](#)] [[ResearchGate](#)]

[JS20] Nesrine Cherif, Wael Jaafar, Evgenii Vinogradov, Halim Yanikomeroglu, Sofie Pollin, and Abbas Yongacoglu, “iTUAVs: Intermittently tethered UAVs for future wireless networks”, under review in *IEEE Wireless Communications Magazine* (submission: 27 Dec 2021).

[JS19] Zuleyha Akusta Dagdeviren, Vahid Khalilpour Akram, Orhan Dagdeviren, Bulent Tavli, and Halim Yanikomeroglu, “ k -Connectivity in wireless sensor networks: Overview and future research directions”, under review in *IEEE Network Magazine* (submission: 25 Dec 2021).

[JS18] Aizaz Chaudhry, Guillaume Lamontagne, and Halim Yanikomeroglu, “Laser inter-satellite link range in free-space optical satellite networks: Impact on latency”, under review in *IEEE Aerospace and Electronic Systems Magazine* (submission: 24 Dec 2021).

[JS17] Mohammed Abdelsadek, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Distributed massive MIMO for LEO satellite networks”, under review in *IEEE Transactions on Wireless Communications* (submission: 23 Dec 2021).

[JS16] Olfa Ben Yahia, Eylem Erdogan, Gunes Karabulut Kurt, Ibrahim Altunbas, and Halim Yanikomeroglu, “Optical satellite eavesdropping”, under review in *IEEE Transactions on Vehicular Technology* (submission: 03 Dec 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS15] 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). [[arXiv](#)] [[ResearchGate](#)]

[JS14] Kursat Tekbiyik, Gunes Karabulut Kurt, Ali Riza Ekti, and Halim Yanikomeroglu, “Reconfigurable intelligent surfaces in action for non-terrestrial networks”, under review in *IEEE Vehicular Technology Magazine* (submission: 22 Nov 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS13] Zichao Zhang, Melda Yuksel, and Halim Yanikomeroglu, “Faster-than-Nyquist signaling for MIMO communications”, under review in *IEEE Transactions on Wireless Communications* (submission: 14 Nov 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS12] Tasneem Darwish, Gunes Karabulut Kurt, Halim Yanikomeroglu, Michel Bellemare, and Guillaume Lamontagne, “LEO satellites in 5G and beyond networks: A review from a standardization perspective”, under review in *IEEE Access* (submission: 10 Nov 2021, 1st results: 09 Dec 2021, 1st revision: 14 Jan 2022). [[arXiv](#)] [[ResearchGate](#)]

[JS11] Amir Mehrabian, Maryam Sabbaghian, and Halim Yanikomeroglu, “CNN-based detector for spectrum sensing with general noise models”, under review in *IEEE Transactions on Wireless Communications* (submission: 08 Nov 2021).

[JS10] Elham Kalantari, Sergey Loyka, Halim Yanikomeroglu, and Abbas Yongacoglu, “Optimal location of cellular base stations via convex optimization”, under review in *IEEE Transactions on Vehicular Technology* (submission: 30 Oct 2021).

[JS09] Islam Abu Mahady, Ebrahim Bedeer, Salama Ikki, and Halim Yanikomeroglu, “Energy efficiency maximization of full-duplex NOMA systems with improper Gaussian signaling under imperfect self-interference cancellation”, under review in *IEEE Communications Letters* (submission: 14 Oct 2021, 1st results: 18 Nov 2021, 1st revision: 01 Jan 2022).

[JS08] Amin Farajzadeh, Mohammad G. Khoshkholgh, Halim Yanikomeroglu, and Ozgur Ercetin, “Self-evolving integrated vertical heterogeneous networks”, under review in *Proceedings of the IEEE* (submission: 13 Oct 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS07] Ali Murat Demirtas, Mehmet Saygin Seyfioglu, Irem Bor-Yaliniz, Bulent Tavli, and Halim Yanikomeroglu, “Autonomous UAV base stations for next generation wireless networks: A deep learning approach”, under review in *IEEE Vehicular Technology Magazine* (submission: 11 Oct 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS06] Tuheen Ahmmed, Afsoon Alidadi, Zichao Zhang, Aizaz U. Chaudhry, and Halim Yanikomeroglu, “The digital divide in Canada and the role of LEO satellites in bridging the gap”, under review in *IEEE Communications Magazine* (submission: 13 Sep 2021, 1st results: 07 Dec 2021, 1st revision: 19 Jan 2022).

[JS05] Weili Wang, Chengchao Liang, Qianbin Chen, Lun Tang, and Halim Yanikomeroglu, “Distributed online anomaly detection for virtualized network slicing environment”, under review in *IEEE Transactions on Vehicular Technology* (submission: 09 Sep 2021, 1st results: 13 Dec 2021, 1st revision: 28 Dec 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS04] Elaheh Vaezpour, Layla Majzooobi, Mohammad Akbari, Saeedeh Parsaeefard, and Halim Yanikomeroglu, “A deep learning-based approach for cell outage compensation in NOMA networks”, under review in *IEEE Open Journal of Vehicular Technology* (submission: 09 Sep 2021, 1st results: 04 Oct 2021).

[JS03] Aizaz U. Chaudhry and Halim Yanikomeroglu, “When to crossover from Earth to space for lower latency data communications?”, under review in *IEEE Transactions on Aerospace and Electronic Systems* (submission: 13 Aug 2021, 1st results: 22 Oct 2021, 1st revision: 29 Nov 2021).

[JS02] Omid Abbasi and Halim Yanikomeroglu, “Transmission scheme, detection and power allocation for uplink user cooperation with NOMA and RSMA”, under review in *IEEE Transactions on Wireless Communications* (submission: 04 Jul 2021, 1st results: 17 Dec 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS01] 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”, under review in *IEEE Transactions on Wireless Communications* (submission: 31 May 2021, 1st results: 15 Sep 2021, 1st revision: 25 Nov 2021). [[arXiv](#)] [[ResearchGate](#)]

[CS01] Jintao Liang, Aizaz U. Chaudhry, Eylem Erdogan, and Halim Yanikomeroglu, “Link budget analysis for optical links in free-space optical satellite networks”, *IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, 14–17 June 2022, Belfast, Northern Ireland, UK.

Refereed Publications

2022

[J225] Olfa Ben Yahia, Eylem Erdogan, Gunes Karabulut Kurt, Ibrahim Altunbas, and Halim Yanikomeroglu, “HAPS selection for hybrid RF/FSO satellite networks”, *IEEE Transactions on Aerospace and Electronic Systems* (acceptance: 01 Jan 2022). [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J224] Eylem Erdogan, Ibrahim Altunbas, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Cooperation in space: HAPS-aided optical inter-satellite connectivity with opportunistic scheduling”, *IEEE Communications Letters* (acceptance: 31 Dec 2021). [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J223] 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* (acceptance: 26 Dec 2021). [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J222] 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* (acceptance: 16 Dec 2021). [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J221] 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* (acceptance: 10 Dec 2021). [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J220] Pouya M. Ghari, Maryam Sabbaghian, and Halim Yanikomeroglu, “Moving aerial anchors assisted network localization”, *IEEE Transactions on Wireless Communications* (acceptance: 25 Oct 2021). [[ResearchGate](#)] [[Xplore](#)]

[J219] Atefeh Hajjiamali Arani, M. Mahdi Azari, Peng Hu, Yeying Zhu, Halim Yanikomeroglu, and Safieddin Safavi-Naeini, “Reinforcement learning for energy-efficient trajectory design of UAVs”, *IEEE Internet of Things Journal* (acceptance: 02 Oct 2021). [[ResearchGate](#)] [[Xplore](#)]

[J218] Kursat Tekbiyik, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Energy-efficient RIS-assisted satellites for IoT networks”, *IEEE Internet of Things Journal* (acceptance: 10 Sep 2021). [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J217] Jalal Khamse-Ashari, Gamini Senarath, Irem Bor-Yaliniz, and Halim Yanikomeroglu, “An agile and distributed mechanism for inter-domain network slicing in next-generation mobile networks”, *IEEE Transactions on Mobile Computing* (acceptance: 15 Feb 2021). [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J216] Talal A. Edwan, Ashraf Tahat, Halim Yanikomeroglu, and Jon Crowcroft, “An analysis of a Stochastic ON-OFF queueing mobility model for software-defined vehicle networks”, *IEEE Transactions on Mobile Computing* (acceptance: 05 Oct 2020). [[ResearchGate](#)] [[Xplore](#)]

[J215] Zahra Rahimi, Mohammad Javad Sobouti, Reza Ghanbari, Seyed Amin Hosseini Seno, Amir Hossein Mohajerzadeh, Hamed Ahmadi, and Halim Yanikomeroglu, “An efficient 3D positioning approach to minimize required UAVs for IoT network coverage”, *IEEE Internet of Things Journal*, vol. 9, no. 1, pp. 558-571, Jan. 1, 2021. [[ResearchGate](#)] [[Xplore](#)]

[J214] Eylem Erdogan, Ibrahim Altunbas, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “The secrecy comparison of RF and FSO eavesdropping attacks in mixed RF-FSO relay networks”, *IEEE Photonics Journal*, vol. 14, no. 1, February 2022, Art. no. 7901508. [[ResearchGate](#)] [[Xplore](#)]

[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.

[C283] Maximiliano Rivera, Mohammad Chegini, Wael Jaafar, Safwan Alfattani, and Halim Yanikomeroglu, “Optimization of quantized phase shifts for reconfigurable smart surfaces assisted communications”, *IEEE Consumer Communications & Networking Conference (CCNC) 2022*, 8–11 January 2022, Virtual Event (Las Vegas, NV, USA). [[arXiv](#)] [[ResearchGate](#)]

2021 (47 IEEE journal papers + 20 conference papers)

[J213] Mohammad Hossein Bahonar, Mohammad Javad Omid, and Halim Yanikomeroglu, “Low-complexity resource allocation for dense cellular vehicle-to-everything (C-V2X) communications”, *IEEE Open Journal of the Communications Society*, vol. 2, pp. 2695-2713, 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J212] Mohsen Tajallifar, Ahmad R. Sharafat, and Halim Yanikomeroglu, “QoS-aware hybrid beamforming with minimal power in mmWave massive MIMO systems”, *IEEE Access*, vol. 9, pp. 164668-164680, 2021. [[Xplore](#)]

[J211] Nizar Masmoudi, Wael Jaafar, Safa Cherif, Jihene Ben Abderrazak, and Halim Yanikomeroglu, “UAV-based crowd surveillance in post COVID-19 era”, *IEEE Access*, vol. 9, pp. 162276-162290, 2021. [[arXiv](#)] [[Xplore](#)]

[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](#)]

[J209] Ahmed Ibrahim, Ebrahim Bedeer, and Halim Yanikomeroglu, “A novel low complexity faster-than-Nyquist (FTN) signaling detector for ultra high-order QAM”, *IEEE Open Journal of the Communications Society*, vol. 2, pp. 2566-2580, 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J208] Oussama Ghdiri, Wael Jaafar, Safwan Alfattani, Jihene Ben Abderrazak, and Halim Yanikomeroglu, “Offline and online UAV-enabled data collection in time-constrained IoT networks”, *IEEE Transactions on Green Communications and Networking*, vol. 5, no. 4, pp. 1918-1933, December 2021. [[Xplore](#)]

[J207] 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. [[arXiv](#)] [[Xplore](#)]

[J206] 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](#)]

[J205] 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](#)]

[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](#)]

[J202] Caner Goztepe, Saliha 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](#)]

[J201] Md Sahabul Alam, Bassant Selim, Imtiaz Ahmed, Georges Kaddoum, and Halim Yanikomeroglu, “Bursty impulsive noise mitigation in NOMA: A MAP receiver-based approach”, *IEEE Communications Letters*, vol. 25, no. 9, pp. 2790-2794, September 2021. [[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](#)]

- [J199]** Safwan Alfattani, Wael Jaafar, Yassine Hmamouche, Halim Yanikomeroglu, and Abbas Yongacoglu, “Link budget analysis for reconfigurable smart surfaces in aerial platforms”, *IEEE Open Journal of the Communications Society*, vol. 2, pp. 1980-1995, 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]
- [J198]** Ozan Alp Topal, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Securing the inter-spacecraft links: Physical layer key generation from Doppler frequency shift”, *IEEE Journal of Radio Frequency Identification*, vol. 5, no. 3, pp. 232-243, September 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]
- [J197]** Abdulla Mahmoud, Sami Muhaidat, Paschalis Sofotasios, Ibrahim Abualhaol, Octavia A. Dobre, and Halim Yanikomeroglu, “Intelligent reflecting surfaces assisted UAV communications for IoT networks: Performance analysis”, *IEEE Transactions on Green Communications and Networking*, vol. 5, no. 3, pp. 1029-1040, September 2021. [[ResearchGate](#)] [[Xplore](#)]
- [J196]** Rawan Alkurd, Ibrahim Abualhaol, and Halim Yanikomeroglu, “Preserving user privacy in personalized networks”, *IEEE Networking Letters*, vol. 3, no. 3, pp. 124-128, September 2021. [[Xplore](#)]
- [J195]** Gunes Karabulut Kurt and Halim Yanikomeroglu, “Communication, computing, caching, and sensing for next generation aerial delivery networks: Using a high-altitude platform station as an enabling technology”, *IEEE Vehicular Technology Magazine*, vol. 16, no. 3, pp. 108-117, September 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]
- [J194]** Tasneem Darwish, Gunes Karabulut Kurt, Halim Yanikomeroglu, Gamini Senarath, and Peiyang Zhu, “A vision of self-evolving network management for future intelligent vertical HetNet”, *IEEE Wireless Communications Magazine*, vol. 28, no. 4, pp. 96-105, August 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]
- [J193]** Amir Mehrabian, Maryam Sabbaghian, and Halim Yanikomeroglu, “Spectrum sensing for symmetric α -stable noise model with convolutional neural networks”, *IEEE Transactions on Communications*, vol. 69, no. 8, pp. 5121-5135, August 2021. [[ResearchGate](#)] [[Xplore](#)]
- [J192]** Ahmed Ibrahim, Ebrahim Bedeer, and Halim Yanikomeroglu, “A novel low complexity faster-than-Nyquist signaling detector based on the primal-dual predictor-corrector interior point method”, *IEEE Communications Letters*, vol. 25, no. 7, pp. 2370-2374, July 2021. [[ResearchGate](#)] [[Xplore](#)]
- [J191]** Wael Jaafar and Halim Yanikomeroglu, “Dynamics of laser-charged UAVs: A battery perspective”, *IEEE Internet of Things Journal*, vol. 8, no. 13, pp. 10573-10582, July 1, 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]
- [J190]** Yassine Hmamouche, Mustapha Benjillali, Samir Saoudi, Halim Yanikomeroglu, and Marco Di Renzo, “New trends in Stochastic geometry for wireless networks: A tutorial and survey”, *Proceedings of the IEEE*, vol. 107, no. 7, pp. 1200-1252, July 2021. [[ResearchGate](#)] [[Xplore](#)]

[J189] Atefeh Rezaei, Paeiz Azmi, Nader Mokari Yamchi, Mohammad Reza Javan, and Halim Yanikomeroglu, “Robust resource allocation for cooperative MISO-NOMA-based heterogeneous networks”, *IEEE Transactions on Communications*, vol. 69, no. 6, pp. 3864-3878, June 2021. [[ResearchGate](#)] [[Xplore](#)]

[J188] Mehmet Cagri Iltter, 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](#)]

[J187] Haitham S. Khallaf, Murat Uysal, Kazutoshi Kato, Ehab Mahmoud Mohamed, Sadiq M. Sait, and Halim Yanikomeroglu, “Composite fading model for aerial MIMO FSO links in the presence of atmospheric turbulence and pointing errors”, *IEEE Wireless Communications Letters*, vol. 10, no. 6, pp. 1295-1299, June 2021. [[ResearchGate](#)] [[Xplore](#)]

[J186] Aizaz U. Chaudhry and Halim Yanikomeroglu, “Laser inter-satellite links in a Starlink constellation: A classification and analysis”, *IEEE Vehicular Technology Magazine*, vol. 16, no. 2, pp. 48-56, June 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J185] Ahmet Burak Ozyurt, Mehmet Basaran, Mine Ardanuc, Lutfiye Durak-Ata, and Halim Yanikomeroglu, “Intracell frequency band exiling for green wireless networks: Implementation, performance metrics, and use cases”, *IEEE Vehicular Technology Magazine*, vol. 16, no. 2, pp. 31-39, June 2021. [[ResearchGate](#)] [[Xplore](#)]

[J184] Gunes Karabulut Kurt, Mohammad G. Khoshkholgh, Safwan Alfattani, Ahmed Ibrahim, Tasneem S. J. Darwish, Md Sahabul Alam, Halim Yanikomeroglu, and Abbas Yongacoglu, “A vision and framework for the high altitude platform station (HAPS) networks of the future”, *IEEE Communications Surveys and Tutorials*, vol. 23, no. 2, pp. 729-779, Secondquarter 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J183] Medhat Elsayed, Melike Erol-Kantarci, and Halim Yanikomeroglu, “Transfer reinforcement learning for 5G-NR mm-wave networks”, *IEEE Transactions on Wireless Communications*, vol. 20, no. 5, pp. 2838-2849, May 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J182] Ahmet Emir, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “DeepMuD: Multi-user detection for uplink grant-free NOMA IoT networks via deep learning”, *IEEE Wireless Communications Letters*, vol. 10, no. 5, pp. 1133-1137, May 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J181] Zhaleh Sadreddini and Halim Yanikomeroglu, “A novel centralized cloud-based mobile data rollover management”, *IEEE Wireless Communications Magazine*, vol. 28, no. 2, pp. 166-171, April 2021. [[ResearchGate](#)] [[Xplore](#)]

[J180] Cihan Emre Kement, Bulent Tavli, Hakan Gultekin, and Halim Yanikomeroglu, “Holistic privacy for electricity, water, and natural gas metering in next generation smart homes”, *IEEE*

Communications Magazine, vol. 59, no. 3, pp. 24-29, March 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J179] Ahmet Emir, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “Deep learning empowered semi-blind joint detection in cooperative NOMA”, *IEEE Access*, vol. 9, pp. 61565-61576, 2021. [[ResearchGate](#)] [[Xplore](#)]

[J178] Zhitong Xing, Kaiming Liu, Aditya S. Rajasekaran, Halim Yanikomeroglu, and Yuanan Liu, “A hybrid companding and clipping scheme for PAPR reduction in OFDM systems”, *IEEE Access*, vol. 9, pp. 61832-61852, 2021. [[ResearchGate](#)] [[Xplore](#)]

[J177] Zhaleh Sadreddini, Ilknur Donmez, and Halim Yanikomeroglu, “Cancel-for-any-reason insurance recommendation using customer transaction-based clustering”, *IEEE Access*, vol. 9, pp. 39363-39374, 2021. [[ResearchGate](#)] [[Xplore](#)]

[J176] 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*, vol. 20, no. 3, pp. 1501-1516, March 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J175] Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “Faded-experience trust region policy optimization for model-free power allocation in interference channel”, *IEEE Wireless Communications Letters*, vol. 10, no. 3, pp. 659-663, March 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J174] Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “Learning power control from a fixed batch of data”, *IEEE Wireless Communications Letters*, vol. 10, no. 3, pp. 512-516, March 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J173] Fatima Ezzahra Airod, Houda Chafnaji, and Halim Yanikomeroglu, “HARQ in full-duplex relay-assisted transmissions for URLLC”, *IEEE Open Journal of the Communications Society*, vol. 2, pp. 409-422, 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J172] Eylem Erdogan, Ibrahim Altunbas, Gunes Karabulut Kurt, Michel Bellemare, Guillaume Lamontagne, and Halim Yanikomeroglu, “Site diversity in downlink optical satellite networks through ground station selection”, *IEEE Access*, vol. 9, pp. 31179-31190, 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J171] 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](#)]

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