**List of Publications – Halim Yanikomeroglu** (updated on 19 April 2024)

 (Please report incorrect or incomplete information to halim@sce.carleton.ca)

[DBLP](https://dblp.uni-trier.de/search?q=yanikomeroglu)
[Google Scholar](https://scholar.google.ca/citations?user=C2iee4YAAAAJ&hl=en&oi=ao)

**Breakdown of 313 Published Journal Papers (305 IEEE + 8 others)**

|  |  |  |
| --- | --- | --- |
| **No of papers** | **Journal** | **Impact Factor** |
| 43 | IEEE Transactions on Wireless Communications | 10.4 |
| 37 | IEEE Access | 3.9 |
| 31 | IEEE Transactions on Vehicular Technology  | 6.8 |
| 28 | IEEE Wireless Communications Letters  | 6.3 |
| 27 | IEEE Communications Letters | 4.1 |
| 20 | IEEE Communications Magazine | 11.2 |
| 20 | IEEE Transactions on Communications | 8.3 |
| 18 | IEEE Open Journal of the Communications Society | 7.9 |
| 11 | IEEE Internet of Things Journal | 10.6 |
| 8 | IEEE Transactions on Mobile Computing  | 7.9 |
| 8 | IEEE Open Journal of Vehicular Technology | 6.4 |
| 7 | IEEE Wireless Communications Magazine | 12.9 |
| 6 | IEEE Vehicular Technology Magazine  | 8.1 |
| 5 | IEEE Journal on Selected Areas in Communications | 16.4 |
| 4 | IEEE Communications Surveys & Tutorials  | 35.6 |
| 4 | IEEE Journal of Radio Frequency Identification  | 3.1 |
| 4 | IEEE Transactions on Information Theory | 2.5 |
| 3 | IEEE Transactions on Green Communications and Networking | 4.8 |
| 3 | IEEE Consumer Electronics Magazine | 4.5 |
| 2 | IEEE Network Magazine | 9.3 |
| 2 | IEEE Transactions on Cognitive Communications and Networking | 8.6 |
| 2 | IEEE Sensors Journal  | 4.3 |
| 2 | IEEE Transactions on Aerospace and Electronic Systems  | 4.4 |
| 2 | IEEE Photonics Journal | 2.4 |
| 2 | IEEE Networking Letters | N/A |
| 1 | IEEE, Proceedings of the | 20.6 |
| 1 | IEEE Transactions on Signal Processing | 5.4 |
| 1 | IEEE Transactions on Network and Service Managament | 5.3 |
| 1 | IEEE Transaction on Broadcasting | 4.5 |
| 1 | IEEE Antennas and Wireless Propagation Letters | 4.2 |
| 1 | IEEE Aerospace and Electronic Systems Magazine | 3.6 |
| Earlier publications (non-IEEE) |
| 3 | Eurasip Journal on Wireless Communications Networking (Springer) | 2.6 |
| 2 | IET Communications | 1.3 |
| 1 | Pervasive and Mobile Computing Journal (Elsevier) | 3.8 |
| 1 | Transactions on Emerging Telecommunications Technologies (Wiley) | 3.3 |
| 1 | Wireless Communications and Mobile Computing (Hindawi) | 2.1 |

**Submissions under Review** (19 IEEE journal papers + 2 conference paper)

**[JS19]** Reza Ghasemi Alavicheh, S. Mohammad Razavizadeh, and Halim Yanikomeroglu, “Integrated access and backhaul on low altitude platforms”, under reiew in *IEEE Open Journal of the Communications Society* (submission: 19 Apr 2024).

**[JS18]** Rahman Saadat Yeganeh, Mohammad Javad Omidi, Farshad Zeinali, Mohammad Robat Mili, Mohammad Ghavami, and Halim Yanikomeroglu, “Sum throughput maximization in symbiotic radio NOMA network assisted by active-STAR-RIS”, under review in *IEEE Transactions on Vehicular Technology* (submission: 11 Apr 2024,unsubmission: 19 Apr 2024).

**[JS17]** Hui Xu, Benjamin K. Ng, Chan-Tong Lam, and Halim Yanikomeroglu, “The ergodic capacity of the SWIPT-cooperative NOMA-FTN system”, under reiew in *IEEE Open Journal of the Communications Society* (submission: 09 Apr 2024).

**[JS16]** Eylem Erdogan, Mohammed Elamassie, Ibrahim Altunbas, Gunes Karabulut Kurt, Murat Uysal, and Halim Yanikomeroglu, “A novel piecewise atmospheric attenuation model for free space optical links in vertical heterogeneous networks”, under review in *IEEE Communications Magazine* (submission: 22 Mar 2024).

**[JS15]** Zichao Zhang, Melda Yuksel, Halim Yanikomeroglu, Benjamin Ng, and Chan-Tong Lam, “Maximum channel coding rate of finite block length MIMO faster-than-Nyquist signaling”, under review in *IEEE Wireless Communications Letters* (submission: 13 Mar 2024). [[arXiv](https://arxiv.org/abs/2403.08989)]

**[JS14]** Zahra Khodadadi, Foroogh S. Tabataba, Mohammad Sadegh Fazel, Mehdi Naderi Soorki, and Halim Yanikomeroglu, “Improving IoRT networks: Cross-tier resource allocation for multi-antenna UAV relays in SAGIN”, under review in *IEEE Transactions on Communications* (submission: 11 Mar 2024).

**[JS13]** Yekaterina Sadovaya, Olga Vikhrova, Sergey Andreev, and Halim Yanikomeroglu, “NTN-assisted multi-connectivity offloading for improved service continuity”, under review *IEEE Communications Letters* (submission: 07 Mar 2024, unsubmission: 08 Mar 2024, submission: 18 Mar 2024, 1st results: 19 Apr 2024).

**[JS12]** Yujie Liu, Yong Liang Guan, David Gonzalez G., and Halim Yanikomeroglu, “DFT-Chirp-s-OFDM: A promising single-carrier chirping waveform for 6G”, under review in *IEEE Wireless Communications Magazine* (submission: 15 Feb 2024).

**[JS11]** Rozita Shafie, Mohammad Javad Omidi, Omid Abbasi, and Halim Yanikomeroglu, “MIMO-NOMA enabled sectorized cylindrical massive antenna array for HAPS with spatially correlated channels”, under review in *IEEE Transactions on Wireless Communications* (submission: 23 Jan 2024, unsubmitted: 24 Jan 2024, submitted: 25 Jan 2024, 1st results: 16 Mar 2024 [due: 15 May 2024]).

**[JS10]** Mohammad Reza Abedi, Nader Mokari, Mohammad Reza Javan, Hamid Saeedi, Eduard A. Jorswieck, and H. Yanikomeroglu, “Safety-aware value of information (S-VoI) for collision risk minimization in vehicular networks”, under review in *IEEE Transactions on Wireless Communications* (submission: 15 Jan 2024, 1st results: 26 Mar 2024 [due: 21 May 2024]).

**[JS09]** Elham Younesian, Ethan Fettes, Pablo G. Madoery, Jiri Hosek, and Halim Yanikomeroglu, “Guardians of connectivity: Navigating and mitigating non-malicious disruptions in satellite networks”, under review in *IEEE Aerospace and Electronic Systems Magazine* (submission: 10 Jan 2024).

**[JS08]** Animesh Yadav and Halim Yanikomeroglu, “Cell-edge capacity improvement via FD-HAPS”, under review in *IEEE Transactions on Communications* (submission: 31 Dec 2023, 1st results: 03 Mar 2024).

**[JS07]** G. Bagherian, N. Mokari, B. Abbasi Arand, K. C. Ho, and Halim Yanikomeroglu, “A low-sensitivity closed-form method for moving source location with known altitude in high and moderate noise levels”, under review in *IEEE Transactions on on Aerospace and Electronic Systems* (submission: 18 Dec 2023, unsubmission: 22 Dec 2023, submission: 24 Dec 2023, 1st results: 24 Mar 2024 [due: 08 May 2024]).

**[JS06]** Berk Ciloglu, Gorkem Berkay Koc, Metin Ozturk, and Halim Yanikomeroglu, “Cell switching in HAPS-aided networking: How the obscurity of traffic loads affects the decision”, under review in *IEEE Transactions on Vehicular Technology* (submission: 15 Dec 2023, 1st results: 28 Feb 2024 [due: 28 Apr 2024]).

**[JS05]** Omid Abbasi, Halim Yanikomeroglu, and Georges Kaddoum, “Hemispherical antenna array architecture for high-altitude platform stations (HAPS) for uniform capacity provision”, under review in *IEEE Transactions on Wireless Communications* (submission: 15 Nov 2023, unsubmission: 16 Nov 2023, submission: 17 Nov 2023, 1st results: 25 Mar 2024 [due: 20 May 2024]).

**[JS04]** Hongzhao Zheng, Mohamed Atia, and Halim Yanikomeroglu, “Realistic channel and delay coefficient generation for dual mobile space-ground links – A tutorial”, under review in *IEEE Open Journal of Vehicular Technology* (submission: 10 Oct 2023, 1st results: 18 Feb 2024).

**[JS03]** Dhiraj Bhattacharjee, Pablo G. Madoery, Aizaz U. Chaudhry, Halim Yanikomeroglu, Gunes Karabulut Kurt, Peng Hu, Khaled Ahmed, and Stephane Martel, “On-demand routing in LEO mega-constellations with dynamic laser inter-satellite links”, under review in *IEEE Transactions on Aerospace and Electronic Systems* (submission: 29 Sep 2023, 1st results: 09 Dec 2023, 1st revision: 23 Jan 2024, 2nd results: 18 Mar 2024 due: 02 May 2024]).

**[JS02]** Esraa M. Ghourab, Wael Jaafar, Lina Bariah, Shimaa Naser, Sami Muhaidat, and Halim Yanikomeroglu, “Interplay between physical layer security and blockchain technology for 5G and beyond: A comprehensive survey”, under review in *Proceedings of the IEEE* (submission: 24 Mar 2023). [[TechRxiv](https://www.techrxiv.org/articles/preprint/Interplay_between_Physical_Layer_Security_and_Blockchain_Technology_for_5G_and_Beyond_A_Comprehensive_Survey/21601848)]

**[JS01]** Elham Kalantari, Sergey Loyka, and Halim Yanikomeroglu, “Optimal location of cellular base stations via convex optimization: An analytical framework and numerical algorithms”, under review in *IEEE Access* (submission: 26 Nov 2022, 1st results: 08 Dec 2022, 1st revision: 30 Dec 2023, unsubmission: 10 Jan 2024, submission: 13 Jan 2024, 2nd results: 23 Feb 2024, 2nd revision: 19 Apr 2024).

**[CS02]** Wen Shang, Yuan Liao, Vasilis Friderikos, Halim Yanikomeroglu, “Robotic aerial base station deployment in 6G integrated access and backhaul networks”, *IEEE 35th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, 2–5 September 2024, Valencia, Spain.

**[CS01]** Ethan A Fettes, Pablo Madoery, Halim Yanikomeroglu, Gunes Karabulut Kurt, Colin Bellinger, Stéphane Martel, Khaled Ahmed, and Sameera Siddiqui, “Next-generation satellite IoT networks: A HAPS-enabled solution to enhance optical data transfer”, *IEEE 35th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, 2–5 September 2024, Valencia, Spain.

**Refereed Publications**

**2024** (19 IEEE journal papers + 9 conference paper)

**[J313]** Ahmad Reza Salehi, Maryam Imani, A. Zaimbashi, and Halim Yanikomeroglu, “Learning and model-based approaches for radar target detection”, *IEEE Transactions on Cognitive Communications and Networking* (acceptance: 07 April 2024).

**[J312]** Mohammad Reza Abedi, Nader Mokari, Mohammad Reza Javan, Hamid Saeedi, Eduard A. Jorswieck, and H. Yanikomeroglu, “Safety-aware age-of-information (S-AoI) for collision risk minimization in cell-free mMIMO platooning networks”, *IEEE Transactions on Network and Service Management* (acceptance: 21 Mar 2024),

DOI: 10.1109/TNSM.2024.3382301. [[Xplore](https://ieeexplore.ieee.org/document/10480716)]

**[J311]** Maede Hojjati, Arian Arabnouri, Alireza Shafieinejad, and Halim Yanikomeroglu, “A blockchain-based approach for USIM management in mobile networks”, *IEEE Open Journal of the Communications Society* (acceptance: 19 Mar 2024),

DOI: 10.1109/OJCOMS.2024.3381546. [[Xplore](https://ieeexplore.ieee.org/document/10478737)]

**[J310]** Afsoon Alidadi Shamsabadi, Animesh Yadav, and Halim Yanikomeroglu, “Enhancing next-generation urban connectivity: Is integrated HAPS-terrestrial network a solution?”, *IEEE Communications Letters* (acceptance: 24 Feb 2024),

DOI: 10.1109/LCOMM.2024.3370698. [[arXiv](http://arxiv.org/abs/2307.08202)] [[ResearchGate](https://www.researchgate.net/publication/372410576_Enhancing_Next-Generation_Urban_Connectivity_Is_the_Integrated_HAPS-Terrestrial_Network_a_Solution)] [[Xplore](https://ieeexplore.ieee.org/document/10445467)]

**[J309]** Amir Mehrabian, Maryam Sabbaghian, and Halim Yanikomeroglu, “RL-based hyperparameter selection for spectrum sensing with CNNs”, *IEEE Transactions on Communications* (acceptance: 06 Jan 2024),

DOI: 10.1109/TCOMM.2024.3354204. [[arXiv](https://arxiv.org/abs/2401.16530)] [[ResearchGate](https://www.researchgate.net/publication/377431007_RL-Based_Hyperparameter_Selection_for_Spectrum_Sensing_With_CNNs)] [[Xplore](https://ieeexplore.ieee.org/document/10399938)]

**[J308]** Weili Wang, Omid Abbasi, Halim Yanikomeroglu, Chengchao Liang, Lun Tang, and Qianbin Chen, “VHetNets for AI and AI for VHetNets: An anomaly detection case study for ubiquitous IoT”, *IEEE Network Magazine* (acceptance: 27 Dec 2023),

DOI: 10.1109/MNET.2023.3349309. [[arXiv](https://arxiv.org/abs/2210.08132)] [[ResearchGate](https://www.researchgate.net/publication/377103963_VHetNets_for_AI_and_AI_for_VHetNets_An_Anomaly_Detection_Case_Study_for_Ubiquitous_IoT)] [[Xplore](https://ieeexplore.ieee.org/document/10379614)]

**[J307]** Omid Abbasi and Halim Yanikomeroglu, “UxNB-enabled cell-free massive MIMO with HAPS-assisted sub-THz backhauling”, *IEEE Transactions on Vehicular Technology* (acceptance: 05 Dec 2023),

DOI: 10.1109/TVT.2023.3347140. [[arXiv](https://arxiv.org/abs/2201.07379)] [[ResearchGate](https://www.researchgate.net/publication/357952943)] [[Xplore](https://ieeexplore.ieee.org/document/10387578)]

**[J306]** Nesrine Cherif, Wael Jaafar, Halim Yanikomeroglu, and Abbas Yongacoglu, “RL-based cargo-UAV trajectory planning and cell association for minimum handoffs, disconnectivity, and energy consumption”, *IEEE Transactions on Vehicular Technology* (acceptance: 28 Nov 2023),

DOI: 10.1109/TVT.2023.3340177. [[arXiv](https://arxiv.org/abs/2312.02478)] [[ResearchGate](https://www.researchgate.net/publication/376348105_RL-Based_Cargo-UAV_Trajectory_Planning_and_Cell_Association_for_Minimum_Handoffs_Disconnectivity_and_Energy_Consumption)] [[Xplore](https://ieeexplore.ieee.org/document/10347516)].

**[J305]** Omid Abbasi, Animesh Yadav, Halim Yanikomeroglu, Ngoc-Dung Dao, Gamini Senarath, and Peiying Zhu, “HAPS for 6G networks: Potential use cases, open challenges, and possible solutions”, *IEEE Wireless Communications Magazine* (acceptance: 10 May 2023),

DOI: 10.1109/MWC.012.2200365. [[arXiv](https://arxiv.org/abs/2301.08863)] [[ResearchGate](https://www.researchgate.net/publication/367359782_HAPS_for_6G_Networks_Potential_Use_Cases_Open_Challenges_and_Possible_Solutions)] [[Xplore](https://ieeexplore.ieee.org/document/10417095)]

**[J304]** Faical Khennoufa, Khelil Abdellatif, Ferdi Kara, Halim Yanikomeroglu, Khaled Rabie, Taissir Y. Elganimi, and Safia Beddiaf, “Error performance analysis of UAV-mounted RIS for NOMA systems with practical constraints”, *IEEE Communications Letters*, vol. 28, no. 4, pp. 887–891, April 2024,

DOI: 10.1109/LCOMM.2024.3361378. [[ResearchGate](https://www.researchgate.net/publication/377915034_Error_Performance_Analysis_of_UAV-Mounted_RIS_for_NOMA_Systems_with_Practical_Constraints)] [[Xplore](https://ieeexplore.ieee.org/document/10418219)]

**[J303]** Yuan Liao, Vasilis Friderikos, and Halim Yanikomeroglu, “Swarm of robotic aerial base stations for mmWave multi-hop backhauling”, *IEEE Wireless Communications Letters*, vol. 13, no. 3, pp. 666–670, March 2024,

DOI: 10.1109/LWC.2023.3338865. [[arXiv](https://arxiv.org/abs/2312.10373)] [[ResearchGate](https://www.researchgate.net/publication/376218741_Swarm_of_Robotic_Aerial_Base_Stations_for_mmWave_Multi-Hop_Backhauling)] [[Xplore](https://ieeexplore.ieee.org/document/10339395)]

**[J302]** Maryam Salamatmoghadasi, Amir Mehrabian, and Halim Yanikomeroglu, “Energy sustainability in dense radio access networks via high altitude platform stations”, *IEEE Networking Letters*, vol. 6, no. 1, pp. 21–25, March 2024,

DOI: 10.1109/LNET.2023.3328918. [[arXiv](https://arxiv.org/abs/2312.10027)] [[ResearchGate](https://www.researchgate.net/publication/375226207_Energy_Sustainability_in_Dense_Radio_Access_Networks_via_High_Altitude_Platform_Stations)] [[Xplore](https://ieeexplore.ieee.org/document/10304250)]

**[J301]** Jintao Liang, Aizaz U. Chaudhry, Eylem Erdogan, Halim Yanikomeroglu, Gunes Karabulut Kurt, Peng Hu, Khaled Ahmed, and Stephane Martel, “Free-space optical (FSO) satellite networks performance analysis: Transmission power, latency, and outage probability”, *IEEE Open Journal of the Vehicular Technology*, vol. 5, 244–261, 2024,

DOI: 10.1109/OJVT.2023.3341409. [[arXiv](https://arxiv.org/abs/2312.04788)] [[ResearchGate](https://www.researchgate.net/publication/376309540_Free-Space_Optical_FSO_Satellite_Networks_Performance_Analysis_Transmission_Power_Latency_and_Outage_Probability)] [[Xplore](https://ieeexplore.ieee.org/document/10354376)]

**[J300]** Mohsen Tajallifar, Ahmad R. Sharafat, and Halim Yanikomeroglu, “Robust and feasible QoS-aware mmWave massive MIMO hybrid beamforming”, *IEEE Transactions on Wireless Communications*, vol. 23, no. 2, pp. 1520–1534, February 2024,

DOI: 10.1109/TWC.2023.3290141. [[ResearchGate](https://www.researchgate.net/publication/372149969_Robust_and_Feasible_QoS-Aware_mmWave_Massive_MIMO_Hybrid_Beamforming)] [[Xplore](https://ieeexplore.ieee.org/document/10173757)]

**[J299]** Amin Farajzadeh, Animesh Yadav, Omid Abbasi, Wael Jaafar, and Halim Yanikomeroglu, “FLSTRA: Federated learning in stratosphere”, *IEEE Transactions on Wireless Communications*, vol. 23, no. 2, pp. 1052–1067, February 2024,

DOI: 10.1109/TWC.2023.3285435. [[arXiv](https://arxiv.org/abs/2302.00163)] [[ResearchGate](https://www.researchgate.net/publication/367645941_FLSTRA_Federated_Learning_in_Stratosphere?channel=doi&linkId=63d9b919c465a873a2723e88&showFulltext=true)] [[Xplore](https://ieeexplore.ieee.org/document/10155658)]

**[J298]** Ziad Elkhatib, Firuz Kamalov, Sherif Moussa, Adel Ben Mnaouer, Mustapha C.E. Yagoub, and Halim Yanikomeroglu, “Radio modulation classification optimization using combinatorial deep learning technique”, *IEEE Access*, vol. 12, pp. 17552–17570, 2024,

DOI: 10.1109/ACCESS.2024.3357628. [[ResearchGate](https://www.researchgate.net/publication/377653823_Radio_Modulation_Classification_Optimization_Using_Combinatorial_Deep_Learning_Technique)] [[Xplore](https://ieeexplore.ieee.org/document/10412062)]

**[J297]** Weihao Wang, Zesong Fei, Jing Guo, Salman Durrani, and Halim Yanikomeroglu, “Outage performance of multi-tier UAV communication with random beam misalignment”, *IEEE Internet of Things Journal*, vol. 11, no. 3, pp. 4163–4178, 01 February 2024,

DOI: 10.1109/JIOT.2023.3299279. [[arXiv](https://arxiv.org/abs/2307.12799)] [[ResearchGate](https://www.researchgate.net/publication/372584051_Outage_Performance_of_Multi-tier_UAV_Communication_with_Random_Beam_Misalignment)] [[Xplore](https://ieeexplore.ieee.org/document/10195979)]

**[J296]** Weili Wang, Omid Abbasi, Halim Yanikomeroglu, Chengchao Liang, Lun Tang, and Qianbin Chen, “A vertical heterogeneous network (VHetNet)–enabled asynchronous federated learning-based anomaly detection framework for ubiquitous IoT”, *IEEE Open Journal of the Communications Society*, vol. 5, pp. 332–34, 2024,

DOI: https://ieeexplore.ieee.org/document/10354443. [[arXiv](https://arxiv.org/abs/2303.02948)] [[ResearchGate](https://www.researchgate.net/publication/376462745_A_Vertical_Heterogeneous_Network_VHetNet-Enabled_Asynchronous_Federated_Learning-Based_Anomaly_Detection_Framework_for_Ubiquitous_IoT)] [[Xplore](https://ieeexplore.ieee.org/document/10354443)]

**[J295]** Youssra Cheriguene, Wael Jaafar, Halim Yanikomeroglu, and Chaker Abdelaziz Kerrache, “Towards reliable participation in UAV-enabled federated edge learning on non-IID data”, *IEEE Open Journal of Vehicular Technology*, vol. 5, pp. 125–141, 2024,

DOI: 10.1109/OJVT.2023.3341304. [[arXiv](https://arxiv.org/abs/2312.10411)] [[ResearchGate](https://www.researchgate.net/publication/376516951_Towards_Reliable_Participation_in_UAV-Enabled_Federated_Edge_Learning_on_Non-IID_Data)] [[Xplore](https://ieeexplore.ieee.org/document/10360280)]

**[C323]** Khaled Humadi, Gunes Karabulut Kurt, and Halim Yanikomeroglu, and “Distributed massive MIMO system with dynamic clustering in LEO satellite networks”, *The 6th International Conference on Communications, Signal Processing, and their Applications (ICCSPA)*, 08–11 July 2024, Istanbul, Türkiye.

**[C322]** Ahmet Melih Ince, Elif Ayse Canbilen, and Halim Yanikomeroglu, “HAPS-enabled V2X architecture for hyper reliable and low-latency communication (HRLLC) in 6G networks”, *The 6th International Conference on Communications, Signal Processing, and their Applications (ICCSPA)*, 08–11 July 2024, Istanbul, Türkiye.

**[C321]** Gorkem Berkay Koc, Berk Ciloglu, Metin Ozturk, and Halim Yanikomeroglu, “A lightweight machine learning approach for delay-aware cell-switching in 6G HAPS networks”, *IEEE International Conference in Communications (ICC) 2024 6th Workshop on Ultra High Data Rate enabled Next Generation Hyper-Reliable and Low-Latency Communications for Futuristic 6G Networks*, 09–13 June 2024, Denver, Colorado, USA. [[arXiv](https://arxiv.org/abs/2402.13096)] [[ResearchGate](https://www.researchgate.net/publication/378334149_A_Lightweight_Machine_Learning_Approach_for_Delay-Aware_Cell-Switching_in_6G_HAPS_Networks)]

**[C320]** Michel Kulhandjian, Hovannes Kulhandjian, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Delay-Doppler domain pulse design for OTFS-NOMA”, *IEEE International Conference in Communications (ICC) 2024 The 4th Workshop on OTFS and Delay-Doppler Multi-Carrier Communications for 6G*, 09–13 June 2024, Denver, Colorado, USA.

**[C319]** Afsoon Alidadi Shamsabadi, Animesh Yadav, and Halim Yanikomeroglu, “Impact of objective function on spectral efficiency in integrated HAPS-terrestrial networks”, *IEEE International Conference in Communications (ICC) 2024 Workshop on Emerging Technologies in Aerial and Space Networks*, 09–13 June 2024, Denver, Colorado, USA. [[arXiv](https://arxiv.org/abs/2403.09817)]

**[C318]** Pablo Madoery, Juan Fraire, Jorge M. Finochietto, Halim Yanikomeroglu, and Gunes Karabulut Kurt, “A novel non-terrestrial networks architecture: All optical LEO constellations with high-altitude ground stations”, *IEEE International Conference in Communications (ICC) 2024 4th Workshop on Satellite Mega-Constellations in the 6G Era*, 09–13 June 2024, Denver, Colorado, USA.

**[C317]** Hongzhao Zheng, Mohamed Atia, Halim Yanikomeroglu, and Paulo S. R. Diniz, “Synthetic waveform generation for satellite, HAPS, and 5G base station signals using QuaDRiGa”, *IEEE ICC 2024*, 09–13 June 2024, Denver, USA.

**[C316]** Adem Cicek, Ian Marsland, Enver Cavus, Ebrahim Bedeer, and Halim Yanikomeroglu, “Low complexity lookup table aided soft output semidefinite relaxation based faster-than-Nyquist signaling detector”, *IEEE ICC 2024*, 09–13 June 2024, Denver, USA.

**[C315]** Omid Abbasi, Halim Yanikomeroglu, and Georges Kaddoum, “Hemispherical massive antenna architecture for high altitude platform stations (HAPS)”, *IEEE WCNC 2024*, 21–21 April 2024, Dubai, United Arab Emirates.

**2023** (42 IEEE journal papers + 10 conference paper)

**[J294]** Han Yu, Zizheng Hua, Xiaqing Miao, Shuai Wang, Gaofeng Pan, Jianping An, Tommy Svensson, and Halim Yanikomeroglu, “Computer vision-based joint space sensing and communication systems: Non-source, autonomy, and low latency”, *IEEE Wireless Communications Magazine*, vol. 30, no. 6, pp. 60–68, December 2023. [[ResearchGate](https://www.researchgate.net/publication/374417098_Computer_Vision-Based_Joint_Space_Sensing_and_Communication_Systems_Non-Source_Autonomy_and_Low_Latency)] [[Xplore](https://ieeexplore.ieee.org/document/10355093)]

**[J293]** Qiqi Ren, Omid Abbasi, Gunes Karabulut Kurt, Halim Yanikomeroglu, and Jian Chen, “Handoff-aware distributed computing in high altitude platform station (HAPS)-assisted vehicular networks”, *IEEE Transactions on Wireless Communications*, vol. 22, no. 12, pp. 8814–8827, December 2023. [[arXiv](https://arxiv.org/abs/2305.04196)] [[ResearchGate](https://www.researchgate.net/publication/370604808_Handoff-Aware_Distributed_Computing_in_High_Altitude_Platform_Station_HAPS-Assisted_Vehicular_Networks)] [[Xplore](https://ieeexplore.ieee.org/document/10103832)]

**[J292]** Jintao Liang, Aizaz U. Chaudhry, John W. Chinneck, Halim Yanikomeroglu, Gunes Karabulut Kurt, Peng Hu, Khaled Ahmed, and Stephane Martel, “Latency versus transmission power trade-off in free-space optical (FSO) satellite networks with multiple inter-continental connections”, *IEEE Open Journal of the Communications Society*, vol. 4, pp. 3014–3029, 2023. [[arXiv](https://arxiv.org/abs/2312.04795)] [[ResearchGate](https://www.researchgate.net/publication/374698293_Latency_versus_Transmission_Power_Trade-off_in_Free-Space_Optical_FSO_Satellite_Networks_with_Multiple_Inter-Continental_Connections)] [[Xplore](https://ieeexplore.ieee.org/document/10287103)].

**[J291]** Semiha Kosu, Mohammadreza Babaei, Serdar Ozgur Ata, Lutfiye Durak-Ata, and Halim Yanikomeroglu, “Linear/non-linear energy harvesting models via multi-antenna relay cooperation in V2V communications”, *IEEE Transactions on Green Communications and Networking*, vol. 7, no. 4, pp. 1725–1738, December 2023. [[arXiv](https://arxiv.org/abs/2305.12428)] [[ResearchGate](https://www.researchgate.net/publication/370928186_LinearNon-Linear_Energy_Harvesting_Models_via_Multi-Antenna_Relay_Cooperation_in_V2V_Communications)] [[Xplore](https://ieeexplore.ieee.org/document/10148067)].

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