List of Publications – Halim Yanikomeroglu   (updated on 22 April 2025)

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DBLP
Google Scholar

Breakdown of 343 Published Journal Papers (335 IEEE + 8 others)

No of papers	Journal	Impact Factor
46	IEEE Transactions on Wireless Communications	10.4
40	IEEE Access	3.9
33	IEEE Transactions on Vehicular Technology	6.8
28	IEEE Wireless Communications Letters	6.3
28	IEEE Communications Letters	4.1
24	IEEE Open Journal of the Communications Society	7.9
23	IEEE Communications Magazine	11.2
20	IEEE Transactions on Communications	8.3
12	IEEE Internet of Things Journal	10.6
10	IEEE Open Journal of Vehicular Technology	6.4
8	IEEE Transactions on Mobile Computing	7.9
7	IEEE Wireless Communications Magazine	12.9
7	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 Transactions on Aerospace and Electronic Systems	4.4
4	IEEE Journal of Radio Frequency Identification	3.1
4	IEEE Transactions on Information Theory	2.5
3	IEEE Network Magazine	9.3
3	IEEE Transactions on Green Communications and Networking	4.8
3	IEEE Consumer Electronics Magazine	4.5
3	IEEE Sensors Journal	4.3
2	IEEE Transactions on Cognitive Communications and Networking	8.6
2	IEEE Antennas and Wireless Propagation Letters	4.2
2	IEEE Aerospace and Electronic Systems Magazine	3.6
2	IEEE Photonics Journal	2.4
2	IEEE Networking Letters	N/A
2	IEEE Internet of Things Magazine	N/A
1	IEEE, Proceedings of the	20.6
1	IEEE Transactions on Signal Processing	5.4
1	IEEE Transactions on Network and Service Management	5.3
1	IEEE Transaction on Broadcasting	4.5
1	IEEE Communications Standards Magazine	N/A
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 (25 IEEE journal papers + 10 conference paper)

[JS25] Mohammed Alouzi, Faisal Al-Kamali, Claude D'Amours, Francois Chan, and Halim Yanikomeroglu, "New RIS design with hybrid transceiver for mmWave MIMO systems", *IEEE Transactions on Vehicular Technology* (submission: 22 Apr 2025).

[JS24] Amin Farajzadeh, Animesh Yadav, and Halim Yanikomeroglu, "Strategic client selection to address non-IIDness in HAPS-enabled FL networks", *IEEE Communications Letters* (submission: 15 Apr 2025, unsubmission: 15 Apr 2025, submission: 16 Apr 2025).

[JS23] Mohamad Alkadamani, Amir Ghasemi, and Halim Yanikomeroglu, "Towards intelligent spectrum management: Spectrum demand estimation using graph neural networks", under review in *IEEE Transactions on Cognitive Communications and Networking* (submission: 13 Apr 2025).

[JS22] Osman Tokluoglu, Adem Cicek, Enver Cavus, Ebrahim Bedeer, and Halim Yanikomeroglu, "GRU-based sequence detection for faster-than-Nyquist signaling", under review in *IEEE Open Journal of the Communications Society* (submission: 09 Apr 2025, unsubmission: 11 Apr 2025, submission: 13 Apr 2025).

[JS21] Maryam Salamathoghadasi, Amir Mehrabian, Halim Yanikomeroglu, and Georges Kaddoum, "Sustainable vertical heterogeneous networks: A cell switching approach with high altitude platform station", under review in *IEEE Transactions on Green Communications and Networking* (submission: 06 Apr 2025).

[JS20] Wen Shang, Yuan Liao, Vasilis Friderikos, and Halim Yanikomeroglu, "Anchor-and-connect: Robotic aerial base stations transforming 6G infrastructure", under review in *IEEE Communications Standards Magazine* (submission: 02 Apr 2025).

[JS19] 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 Network and Service Management* (submission: 24 Mar 2025).

[JS18] Bilal Karaman, Ilhan Basturk, Ferdi Kara, Engin Zeydan, Esra Aycan Beyazit, Sezai Taskin, Emil Björnson, and Halim Yanikomeroglu, "On-demand HAPS-assisted communication system for public safety in emergency and disaster response", under review in *IEEE Communications Magazine* (submission: 15 Mar 2025).

[JS17] Irem Cumali, Berna Ozbek, Gunes Karabulut Kurt, and Halim Yanikomeroglu, "Rate maximization for the HAPS-assisted cell-free massive MIMO networks", under review in *IEEE Transactions on Wireless Communications* (submission: 12 Mar 2025).

[JS16] Dhiraj Bhattacharjee, Pablo G. Madoery, Abhishek Naik, Halim Yanikomeroglu, Gunes Karabulut Kurt, Colin Bellinger, and Stephane Martel, "SQ-ROQ: A scalable framework for QoS-aware joint routing and queue management in satellite mega-sonstellations", under review in *IEEE Transactions on Network and Service Management* (submission: 05 Mar 2025)

[JS15] Esraa M. Ghourab, Wael Jaafar, Lina Bariah, Shimaa Naser, Halim Yanikomeroglu, Mahmoud Al-Qutayri, and Sami Muhaidat, "Interplay between physical layer security and blockchain technology for 5G and beyond: A comprehensive survey", under review in *IEEE Open Journal of the Communications Society* (submission: 16 Feb 2025, unsubmission: 18 Feb 2025, submission: 24 Feb 2025, unsubmission: 25 Feb 2025, submission: 03 Mar 2025, unsubmission: 06 Mar 2025, submission: 06 Mar 2025).

[JS14] Osman Tokluoglu, Enver Cavus, Ebrahim Bedeer, and Halim Yanikomeroglu, "A novel CNN based standalone detector for faster-than-Nyquist signaling", under review in *IEEE Transactions on Communications* (submission: 27 Jan 2025).

[JS13] Faical Khennoufa, Khelil Abdellatif, Halim Yanikomeroglu, Safwan Alfattani, Metin Ozturk, and Ferdi Kara, "Two-tier high altitude platform stations (HAPS) for exploring wireless energy harvesting", under review in *IEEE Transactions on Green Communications and Networking* (submission: 05 Feb 2025, unsubmission: 11 Feb 2025, submission: 13 Feb 2025).

[JS12] Ahmet Melih Ince, Elif Ayse Canbilen, and Halim Yanikomeroglu, "AoI-aware HAPS-aided multi-agent framework for resource management in V2X networks", under review in *IEEE Transactions on Wireless Communications* (submission: 27 Jan 2025).

[JS11] Hossein Asadollahi, Nader Mokari, Hamid Saeedi, and Halim Yanikomeroglu, "Hybrid DNN-CNN architecture for precise indoor localization using cellular and Wi-Fi synergy", under review in *IEEE Transactions on Vehicular Technology* (submission: 01 Jan 2025, 1st results: 01 Mar 2025 [due: 02 May 2025]).

[JS10] Bilal Karaman, Ilhan Basturk, Ferdi Kara, Sezai Taskin, and Halim Yanikomeroglu, "ANCHOR: Advanced connectivity with NOMA-RIS in HAPS networks", under review in *IEEE Transactions on Vehicular Technology* (submission: 28 Dec 2024).

[JS09] Zichao Zhang, Melda Yuksel, Gokhan M. Guvensen, and Halim Yanikomeroglu, "Capacity and PAPR analysis for MIMO faster-than-Nyquist signaling with high acceleration", under review in *IEEE Transactions on Wireless Communications* (submission: 19 Dec 2024, 1st results: 15 Mar 2025 [due: 10 May 2025]). [arXiv] [ResearchGate]

[JS08] Parisa Kanani, Mohammad Javad Omidi, Mahmoud Modarres-Hashemi, and Halim Yanikomeroglu, "HAPS-ISAC: Enhancing sensing and communication in 6G networks with advanced MIMO beamforming", under review in *IEEE Open Journal of the Communications Society* (submission: 09 Dec 2024, 1st results: 11 Jan 2025, 1st revision: 09 Apr 2025).

[JS07] Bilal Karaman, Ilhan Basturk, Sezai Taskin, Engin Zeydan, Ferdi Kara, Esra Aycan Beyazıt, Miguel Camelo, Emil Björnson, and Halim Yanikomeroglu, "Solutions for sustainable and resilient communication infrastructure in disaster relief and management scenarios", under review in *IEEE Communications Surveys and Tutorials* (submission: 16 Oct 2024, 1st results: 20 Jan 2025, 1st revision: 21 Apr 2025). [arXiv]

[JS06] Benoit Coeugnet, Pablo G. Madoery, Juan A. Fraire, Jorge M. Finochietto, and Halim Yanikomeroglu, "High-altitude ground stations: Challenges and opportunities in all-optical satellite networks", under review in *IEEE Aerospace and Electronic Systems Magazine* (submission: 05 Oct 2024).

[JS05] Parisa Kanani, Mohammad Javad Omidi, Mahmoud Modarres-Hashemi, and Halim Yanikomeroglu, "Optimizing network performance and resource allocation in HAPS-UAV integrated sensing and communication systems for 6G", under review in *IEEE Transactions on Wireless Communications* (submission: 24 Sep 2024, 1st results: 14 Apr 2025 [due: 02 Jun 2025]).

[JS04] 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 heterogenous networks", under review in *IEEE Vehicular Technology Magazine* (submission: 19 Sep 2024, 1st results: 26 Feb 2025).

[JS03] Tuheen Ahmmed, Adnan Kiayani, and Halim Yanikomeroglu, "Effective digital PIM cancellation in multi-band MIMO FDD radios in 5G and beyond", under review in *IEEE Transactions on Vehicular Technology* (submission: 09 Sep 2024, 1st results: 15 Jan 2025 [due: 12 May 2025]).

[JS02] Mohammed Mahyoub, Halim Yanikomeroglu, Gunes Karabulut Kurt, Stephane Martel, and Sylvain Raymond, "Visibility-aware user association and resource allocation in multi-slice LEO satellite networks", under review in *IEEE Transactions on Network and Service Management* (submission: 08 Sep 2024, unsubmission: 10 Sep 2024, submission: 11 Sep 2024, 1st results: 18 Jan 2025, 1st revision: 23 Mar 2025).

[JS01] Omid Abbasi, Georges Kaddoum, and Halim Yanikomeroglu, "An ML-assisted OFDM-based hemispherical array antenna with hybrid beamforming for HAPS", under review in *IEEE Transactions on Wireless Communications* (submission: 06 Sep 2024, 1st results: 31 Dec 2024, 1st revision: 11 Mar 2025).

[CS10] Parisa Kanani, Mohammad Javad Omidi, Mahmoud Modarres-Hashemi, and Halim Yanikomeroglu, "Max-Min fairness-oriented beamforming design in HAPS-enabled ISAC for 6G networks", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, 1–4 September 2025, Istanbul, Türkiye.

[CS09] Osman Tokluoglu, Enver Cavus, Ebrahim Bedeer, and Halim Yanikomeroglu, "A novel domain-aware CNN architecture for faster-than-Nyquist signaling detection", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, 1–4 September 2025, Istanbul, Türkiye.

[CS08] Osman Tokluoglu, Adem Cicek, Enver Cavus, Ebrahim Bedeer, and Halim Yanikomeroglu, "Faster-than-Nyquist signaling detection using GRU-based deep neural network", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, 1–4 September 2025, Istanbul, Türkiye.

[CS07] Maryam Salamathoghadasi, Metin Ozturk, and Halim Yanikomeroglu0, "Enhancing sustainability in HAPS-assisted 6G networks: Load estimation aware cell switching", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, 1–4 September 2025, Istanbul, Türkiye.

[CS06] Parisa Kanani, Mohammad Javad Omidi, Mahmoud Modarres-Hashemi, and Halim Yanikomeroglu, "Optimizing HAPS-ISAC for enhanced communication and sensing in future 6G networks", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, 1–4 September 2025, Istanbul, Türkiye.

[CS05] Bilal Karaman, Ilhan Basturk, Ferdi Kara, Metin Ozturk, Sezai Taskin, and Halim Yanikomeroglu, "On the trade-off between sum-rate and energy efficiency through the convergence of HAPS and active RIS technologies", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, 1–4 September 2025, Istanbul, Türkiye.

[CS04] Zichao Zhang, Melda Yuksel, Gokhan M. Guvensen, and Halim Yanikomeroglu, "PAPR analysis for MIMO FTN signaling with Gaussian symbols", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, Invited Paper, 1–4 September 2025, Istanbul, Türkiye.

[CS03] Wafa Hasanain, Pablo Madoery, Halim Yanikomeroglu, Gunes Karabulut Kurt, Sameera Siddiqui, Stéphane Martel, Khaled Ahmed, and Colin Bellinger, "Dynamic activation and assignment of SDN controllers in LEO satellite constellations", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, 1–4 September 2025, Istanbul, Türkiye.

[CS02] Ahmet Melih Ince, Elif Ayse Canbilen, and Halim Yanikomeroglu, "AoI-aware resource allocation with deep reinforcement learning for HAPS-V2X networks", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, 1–4 September 2025, Istanbul, Türkiye.

[CS01] Ryan G. Dempsey, Jonathan Ethier, and Halim Yanikomeroglu, "Reciprocity-aware convolutional neural networks for map-based path loss prediction", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2025*, 1–4 September 2025, Istanbul, Türkiye. [arXiv]

Refereed Publications

2025 (14 IEEE journal papers + 13 conference paper)

[J343] Janaki Parekh, Elizabeth Yackoboski, Amir Ghasemi, and Halim Yanikomeroglu, "Modeling local demand for mobile spectrum: An interpretable machine learning approach", *IEEE Open Journal of the Communications Society* (acceptance: 15 Apr 2025).

[J342] Ryan G. Dempsey, Jonathan Ethier, and Halim Yanikomeroglu, "Path loss prediction using deep learning", *IEEE Antennas and Wireless Propagation Letters* (acceptance: 21 Mar 2025), DOI: 10.1109/LAWP.2025.3554357. [arXiv] [Xplore]

[J341] Metin Ozturk, Maryam Salamathoghadasi, and Halim Yanikomeroglu, "Integrating terrestrial and non-terrestrial networks for sustainable 6G operations: A latency-aware multi-tier cell-switching approach", *IEEE Network Magazine* (acceptance: 18 Mar 2025), DOI: 10.1109/MNET.2025.3554393. [Xplore]

[J340] Amin Farajzadeh, Animesh Yadav, and Halim Yanikomeroglu, "Federated learning in NTNs: Design, architecture, and challenges", *IEEE Communications Magazine* (acceptance: 02 Mar 2025). [arXiv]

[J339] Afsoon Alidadi Shamsabadi, Animesh Yadav, and Halim Yanikomeroglu, "Interference management strategies in HAPS-enabled vHetNets in urban deployments", *IEEE Communications Standards Magazine* (acceptance: 02 Mar 2025). [arXiv] [ResearchGate]

[J338] Faical Khennoufa, Khelil Abdellatif, Halim Yanikomeroglu, Metin Ozturk, Taissir Elganimi, Ferdi Kara, and Khaled Rabie, "A multi-layer non-terrestrial networks architecture for 6G and beyond under realistic conditions and with practical limitations", *IEEE Internet of Things Magazine* (acceptance: 21 Feb 2025). [arXiv]

[J337] Yujie Liu, Yong Liang Guan, David Gonzalez G., and Halim Yanikomeroglu, "Chirped DFT-s-OFDM: A new single-carrier waveform with enhanced LMMSE noise suppression", *IEEE Transactions on Vehicular Technology* (acceptance: 17 Feb 2025), DOI: 10.1109/TVT.2025.3544337. [arXiv] [Xplore]

[J336] Berk Ciloglu, Gorkem Berkay Koc, Afsoon Alidadi Shamsabadi, Metin Ozturk, and Halim Yanikomeroglu, "Strategic demand-planning in wireless networks: Can generative-AI save spectrum and energy?", *IEEE Communications Magazine* (acceptance: 27 Nov 2024), DOI: 10.1109/MCOM.001.2400381. [arXiv] [Xplore]

[J335] Mohammad Ravan, Foroogh S. Tabataba, Mohammad Sadegh Fazel, and Halim Yanikomeroglu, "Enhancing spectral efficiency: The impact of RIS elements association on multi-user cell-free wireless networks", *IEEE Open Journal of the Communications Society*, vol. 6, pp. 1895–1913, 2025, DOI: 10.1109/OJCOMS.2025.3548537. [Xplore]

[J334] Afsoon Alidadi Shamsabadi, Animesh Yadav, Yasser Gadallah, and Halim Yanikomeroglu, "Exploring the 6G potentials: Immersive, hyperreliable, and low-latency communication", *IEEE Vehicular Technology Magazine*, vol. 20, no. 1, pp. 74–82, March 2025, DOI: 10.1109/MVT.2025.3531346. [arXiv] [Xplore]

[J333] Muhammad Ali Jamshed, Bushra Haq, Muhammad Ahmed Mohsin, Ali Nauman, and Halim Yanikomeroglu, "Artificial intelligence, ambient backscatter communication and non-

terrestrial networks: A 6G commixture", *IEEE Internet of Things Magazine*, vol. 8, no. 2, pp. 88–94, March 2025,
DOI: 10.1109/IOTM.001.2400204. [arXiv] [Xplore]

[J332] Elham Younesian, Ethan Fettes, Pablo G. Madoery, Jiri Hosek, and Halim Yanikomeroglu, "Guardians of connectivity: Navigating and mitigating non-malicious disruptions in satellite networks", *IEEE Aerospace and Electronic Systems Magazine*, vol. 40, no. 3, pp. 20–32, March 2025,
DOI: 10.1109/MAES.2024.3519093. [Xplore]

[J331] Hui Xu, Chaorong Zhang, Qingying Wu, Benjamin K. Ng, Chan-Tong Lam, and Halim Yanikomeroglu, "FTN-assisted SWIPT-NOMA design for IoT wireless networks: A paradigm in wireless efficiency and energy utilization", *IEEE Sensors Journal*, vol. 25, no. 4, pp. 7431–7444, 15 February 2025,
DOI: 10.1109/JSEN.2025.3525662. [Xplore]

[J330] Mohamed Alouzi, Halim Yanikomeroglu, and Gunes Karabulut Kurt, "Adaptive phase shifters for hybrid beamforming in mm-wave systems", *IEEE Transactions on Wireless Communications*, vol. 24, no. 2, pp. 1104–1116, February 2025,
DOI: 10.1109/TWC.2024.3505202. [Xplore]

[C345] Ryan G. Dempsey, Jonathan Ethier, and Halim Yanikomeroglu, "Investigating map-based path loss models: A study of feature representations in convolutional neural networks", *IEEE International Symposium on Antennas & Propagation*, 13–18 July 2025, Ottawa, Ontario, Canada. [arXiv]

[C344] Mohamad Alkadamani, Colin Brown, and Halim Yanikomeroglu, "AI-enhanced spatial spectrum demand prediction with contextual clustering and error correction", *IEEE COMPSAC 2025*, 8–11 July 2025, Toronto, Ontario, Canada.

[C343] Colin Brown, Mohamad Alkadamani, and Halim Yanikomeroglu, "AI-enabled data-driven intelligence for spectrum demand estimation", *IEEE International Conference on Communications (ICC) Workshops*, 8–12 June 2025, Montreal, Quebec, Canada.

[C342] Omid Abbasi, Georges Kaddoum, and Halim Yanikomeroglu, "An AI-enabled multicarrier hybrid beamforming for HAPS with hemispherical array antenna", *IEEE International Conference on Communications (ICC) Workshops*, 8–12 June 2025, Montreal, Quebec, Canada.

[C341] Jintao Liang, Pablo Madoery, Chung-Horng Lung, Halim Yanikomeroglu, and Gunes Karabulut Kurt, "Green satellite network analysis using segment routing and software-defined networking", *IEEE International Conference on Communications (ICC) Workshops*, 8–12 June 2025, Montreal, Quebec, Canada.

[C340] Ethan Fettes, Pablo Madoery, Halim Yanikomeroglu, Gunes Karabulut Kurt, Abhishek Naik, Colin Bellinger, Khaled Ahmed, Sameera Siddiqui, and Stéphane Martel, "Energy-efficient

satellite IoT optical downlinks using weather-adaptive reinforcement learning", *IEEE International Conference on Communications (ICC)*, 8–12 June 2025, Montreal, Quebec, Canada. [arXiv]

[C339] Hesam Khoshkbari, Georges Kaddoum, Bassant Selim, Omid Abbasi, and Halim Yanikomeroglu, "Distributed beamforming in massive MIMO communication for a constellation of airborne platform stations", *IEEE International Conference on Communications (ICC)*, 8–12 June 2025, Montreal, Quebec, Canada.

[C338] Rozita Shafie, Omid Abbasi, Halim Yanikomeroglu, and Mohammad Javad Omidi, "A novel 3D massive MIMO architecture with strategic resource allocation for near-space HAPS systems with spatially correlated channels", *IEEE International Conference on Communications (ICC)*, 8–12 June 2025, Montreal, Quebec, Canada.

[C337] Khai Doan, Sangmin Han, Wonjae Shin, Ioannis Lambadaris, and Halim Yanikomeroglu, "Joint beam hopping and caching optimization in integrated terrestrial-satellite backhaul networks", *IEEE International Conference on Communications (ICC)*, 8–12 June 2025, Montreal, Quebec, Canada.

[C336] Mohammed Mahyoub, Sami Muhaidat, Halim Yanikomeroglu, and Gunes Karabulut Kurt, "Risk-aware slicing-based security functions allocation in LEO satellite networks", *International Wireless Communications & Mobile Computing Conference (IWCMC)*, 12–16 May 2025, Abu Dhabi, UAE.

[C335] Faical Khennoufa, Khelil Abdellatif, Halim Yanikomeroglu, Metin Ozturk, Taissir Elganimi, Ferdi Kara, and Khaled Rabie, "Multi-layer network formation through HAPS base station and transmissive RIS-equipped UAV", *IEEE Wireless Communications and Networking Conference (WCNC)*, 24–27 March 2025, Milan, Italy. [arXiv]

[C334] Zichao Zhang, Melda Yuksel, Halim Yanikomeroglu, Benjamin K. Ng, and Chan-Tong Lam, "Maximum channel coding rate of finite block length MIMO faster-than-Nyquist signaling", *IEEE Wireless Communications and Networking Conference (WCNC)*, 24–27 March 2025, Milan, Italy. [arXiv]

[C333] Wen Shang, Yuan Liao, Vasilis Friderikos, and Halim Yanikomeroglu, "Integrated robotic aerial base stations deployment and backhaul design in 6G multihop networks", *IEEE Wireless Communications and Networking Conference* (*WCNC*), 24–27 March 2025, Milan, Italy.

2024 (35 IEEE journal papers + 18 conference paper)

[J329] Bilal Karaman, Ilhan Basturk, Sezai Taskin, Ferdi Kara, Engin Zeydan, and Halim Yanikomeroglu, "Enhancing resiliency of integrated space-air-ground-sea networks with renewable energies: A use case after the Türkiye earthquake", *IEEE Communications Magazine*, vol. 62, no. 12, pp. 104–111, December 2024,
DOI: 10.1109/MCOM.002.2300465. [arXiv] [ResearchGate] [Xplore]

[J328] Omid Abbasi, Halim Yanikomeroglu, and Georges Kaddoum, "Hemispherical antenna array architecture for high-altitude platform stations (HAPS) for uniform capacity provision", *IEEE Transactions on Wireless Communications*, vol. 23, no. 12, pp. 19489–19504, December 2024,
DOI: 10.1109/TWC.2024.3484008. [arXiv] [ResearchGate] [Xplore]

[J327] Wen Shang, Yuan Liao, Vasilis Friderikos, and Halim Yanikomeroglu, "Unlocking sub-THz by robotic aerial base stations: Joint deployment and wireless backhaul routing", *IEEE Open Journal of the Communications Society*, vol. 5, pp. 7582–7597, 2024,
DOI: 10.1109/OJCOMS.2024.3505435. [ResearchGate] [Xplore]

[J326] Gholamreza Bagherian, Nader Mokari, Bijan Abbasi Arand, K. C. Ho, and Halim Yanikomeroglu, "A closed-form method with low noise sensitivity for locating a moving source at a known altitude", *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 6, pp. 7870–7885, December 2024,
DOI: 10.1109/TAES.2024.3422151. [ResearchGate] [Xplore]

[J325] 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", *IEEE Access*, vol. 12, pp. 179748–179763, 2024,
DOI: 10.1109/ACCESS.2024.3507856. [ResearchGate] [Xplore]

[J324] Nazanin Kalantarinejad, Dariush Abbasi-Moghadem, and Halim Yanikomeroglu, "Spectral efficiency and energy efficiency tradeoff in multiuser RIS-aided mobile edge computing networks", *IEEE Open Journal of the Communications Society*, vol. 5, pp. 7368–7379, 2024,
DOI: 10.1109/OJCOMS.2024.3497756. [ResearchGate] [Xplore]

[J323] 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*, vol. 38, no. 6, pp. 170–177, November 2024,
DOI: 10.1109/MNET.2023.3349309. [arXiv] [ResearchGate] [Xplore]

[J322] Mohammad Reza Abedi, Mehdi Fasanghari, Mohammad Akbari, Nader Mokari, and Halim Yanikomeroglu, "Dynamic pricing in multi-tenant MANO with resource sharing: A Stackelberg game approach", *IEEE Open Journal of the Communications Society*, vol. 5, pp. 7002–7021, 2024,
DOI: 10.1109/OJCOMS.2024.3480987. [ResearchGate] [Xplore]

[J321] Mehmet A. Kucuk, Cenk Albayrak, Kadir Turk, and Halim Yanikomeroglu, "Optical filter design for multi-color VLC in reflective environments with multiple lighting sources", *IEEE Access*, vol. 12, pp. 169344–169355, 2024,
DOI: 10.1109/ACCESS.2024.3489792. [ResearchGate] [Xplore]

[J320] 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", *IEEE Transactions on Vehicular Technology*, vol. 73, no. 11, pp. 17782–17787, November 2024,
DOI: 10.1109/TVT.2024.3420245. [arXiv] [ResearchGate] [Xplore]

[J319] Yekaterina Sadovaya, Olga Vikhrova, Sergey Andreev, and Halim Yanikomeroglu, "Enhancing service continuity in non-terrestrial networks via multi-connectivity offloading", *IEEE Communications Letters*, vol. 28, no. 10, pp. 2333–2337, October 2024, DOI: 10.1109/LCOMM.2024.3434400. [ResearchGate] [Xplore]

[J318] Rozita Shafie, Mohammad Javad Omidi, Omid Abbasi, and Halim Yanikomeroglu, "MIMO-NOMA enabled sectorized cylindrical massive antenna array for HAPS with spatially correlated channels", *IEEE Transactions on Wireless Communications*, vol. 23, no. 10, pp. 15155–15168, October 2024, DOI: 10.1109/TWC.2024.3426521. [arXiv] [ResearchGate] [Xplore]

[J317] 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", *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 5, pp. 7089–7105, October 2024, DOI: 10.1109/TAES.2024.3415571. [arXiv] [ResearchGate] [Xplore]

[J316] Ahmadreza Salehi, Maryam Imani, Amir Zaimbashi, and Halim Yanikomeroglu, "Learning and model-based approaches for radar target detection", *IEEE Transactions on Cognitive Communications and Networking*, vol. 10, no. 5, pp. 1817–1830, October 2024, DOI: 10.1109/TCCN.2024.3391327. [ResearchGate] [Xplore]

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