# List of Publications – Halim Yanikomeroglu

(updated on 04 Nov 2023)

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

**DBLP**

**Google Scholar**

## Breakdown of 298 Published Journal Papers (290 IEEE + 8 others)

<table>
<thead>
<tr>
<th>No of papers</th>
<th>Journal</th>
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<tr>
<td>43</td>
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<td>IEEE Journal on Selected Areas in Communications</td>
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Earlier publications (non-IEEE)

|            | Eurasip Journal on Wireless Communications Networking (Springer) | 2.6 |
|            | 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


Wen Shang, Yuan Liao, Vasilis Friderikos, Halim Yanikomeroglu, “Robotic aerial base station assisted integrated access and backhaul networks with hop constraints”, IEEE ICC 2024, 09–13 June 2024, Denver, USA.


Referred Publications

2023 (46 IEEE journal papers + 10 conference paper)


connections”, *IEEE Open Journal of the Communications Society* (acceptance: 08 Oct 2023) [arXiv] [ResearchGate] [Xplore].


[J290] 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* (acceptance: 01 Apr 2023). [arXiv] [ResearchGate] [Xplore]


Yuan Liao, Vasilis Friderikos, and Halim Yanikomeroglu, “Robust deployment and resource allocation for robotic aerial base station enabled OFDM integrated sensing and communication”, IEEE Wireless Communications Letters, vol. 12, no. 10, pp. 1766–1770, October 2023. [arXiv] [ResearchGate] [Xplore]


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Nahid Amani, Saeedeh Parsaeefard, and Halim Yanikomeroglu, “Multi-objective energy efficient resource allocation in massive multi input multi output-aided heterogeneous cloud radio access networks”, *IEEE Access*, vol. 11, pp. 33480–33497, 2023. [ResearchGate] [Xplore]

Safwan Alfattani, Animesh Yadav, Halim Yanikomeroglu, and Abbas Yongacoglu, “Resource-efficient HAPS-RIS enabled beyond-cell communications”, *IEEE Wireless Communications Letters*, vol. 12, no. 4, pp. 679–683, April 2023. [TechRxiv] [arXiv] [ResearchGate] [Xplore]
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Wael Jaafar and Halim Yanikomeroglu, “HAPS-ITS: Enabling future ITS services in trans-continental highways”, *IEEE Communications Magazine*, vol. 60, no. 10, pp. 80-86, October 2022. [arXiv] [ResearchGate] [Xplore]


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[J231] Hichem Semira, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “Error performance analysis of multi-user detection in uplink-NOMA with adaptive M-QAM”, *IEEE Wireless Communications Letters*, vol. 11, no. 8, pp. 1654-1658, August 2022. [arXiv] [ResearchGate] [Xplore]

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[C302] Mohamed Hozayen, Tasneem Darwish, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “A graph-based customizable handover framework for LEO satellite networks”, IEEE Globecom Workshops 2022, 04–08 December 2022, Rio de Janeiro, Brazil. [arXiv] [ResearchGate] [Xplore]
[C301] 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. [TechrXiv] [arXiv] [ResearchGate] [Xplore]

[C300] Sarosh Ahmad, Wael Jaafar, and Halim Yanikomeroglu, “Designing a broadband MIMO antenna for next generation wireless communication systems”, *IEEE Globecom 2022*, 04–08 December 2022, Rio de Janeiro, Brazil. [Xplore]


[C298] Dong Chu, Wael Jaafar, and Halim Yanikomeroglu, “On the design of communication-efficient federated learning for health monitoring”, *IEEE Globecom 2022*, 04–08 December 2022, Rio de Janeiro, Brazil. [arXiv] [ResearchGate] [Xplore]


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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] [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]


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]


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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). [ResearchGate] [Xplore]

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Nadir Adam, Cristiano Tapparello, Wendi Heinzelman, and Halim Yanikomeroglu, “Placement optimization of multiple UAV base stations”, IEEE Wireless Communications and
2020 (21 IEEE journal papers + 12 conference papers)


[J159] Omid Abbasi, Halim Yanikomeroglu, Afshin Ebrahimi, and Nader Mokari, “Trajectory design and power allocation for drone-assisted NR-V2X network with dynamic NOMA/OMA”, IEEE Transactions on Wireless Communications, vol. 19, no. 11, pp. 7153-7168, November 2020. [arXiv] [ResearchGate] [Xplore]

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