**List of Publications – Halim Yanikomeroglu** (updated on 13 Dec 2022)

**[JS32]** Javad Sobouti, Amir Hossein Mohajerzadeh, Hosseini, and Halim Yanikomeroglu, “Managing sets of flying base stations using energy efficient 3D trajectory planning in cellular networks”, under review in *IEEE Sensors Journal* (submission: 09 Dec 2022).

**[JS31]** 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). [[Xplore](https://ieeexplore.ieee.org/document/9969597)]

**[JS30]** Sanjeev Gurugopinath, Lina Bariah, Sami Muhaidat, Rajaleksmi Kishore, Paschalis C. Sofotasios, Faissal El Bouanani, and Halim Yanikomeroglu, “Interplay of NOMA and GSSK: Detection strategies and performance analysis”, under review in *IEEE Open Journal of Vehicular Technology* (submission: 16 Nov 2022, 1st results: 08 Dec 2022). [[arXiv](https://arxiv.org/abs/2105.11186)] [[ResearchGate](https://www.researchgate.net/publication/351840735)]

**[JS29]** Esraa M. Ghourab, Wael Jaafar, Lina Bariah, Sami Muhaidat, and Halim Yanikomeroglu, “Interplay between physical layer security and blockchain technology for 5G and beyond: A comprehensive survey”, under review in *IEEE Communications Surveys and Tutorials* (submission: 15 Nov 2022). [TechRxiv]

**[JS28]** Mohammed Y. Abdelsadek, Gunes Karabulut-Kurt, Halim Yanikomeroglu, Peng Hu, Guillaume Lamontagne, and Khaled Ahmed, “Broadband connectivity for handheld devices via LEO satellites: Is distributed massive MIMO the answer?”, under review in *IEEE Open Journal of the Communications Society* (submission: 09 Nov 2022, 1st results: 08 Dec 2022).

**[JS27]** Mojtaba Miraghajanian, Javad Sobouti, Amirhossien Mohajerzadeh, and Halim Yanikomeroglu, “High-rate and low-latency transmission in two-tier cooperative narrowband Internet-of-Things and Bluetooth low-energy networks”, under review in *IEEE Systems Journal* (submission: 07 Nov 2022).

**[JS26]** Nahid Amani, Saeedeh Parsaeefard, and Halim Yanikomeroglu, “Multi-objective energy efficient resource allocation in massive MIMO-aided H-CRAN”, under review in *IEEE Access* (submission: 31 Oct 2022, 1st results: 19 Nov 2022).

**[JS24]** Omid Abbasi and Halim Yanikomeroglu, “UxNB-enabled cell-free massive MIMO with HAPS-assisted sub-THz backhauling”, under review in *IEEE Transactions on Vehicular Technology* (submission: 20 Oct 2022). [[arXiv](https://arxiv.org/abs/2201.07379)] [[ResearchGate](https://www.researchgate.net/publication/357952943)]

**[JS23]** Kursat Tekbiyik, Gunes Karabulut Kurt, Ali Riza Ekti, and Halim Yanikomeroglu, “Graph attention networks for channel estimation in RIS-assisted satellite IoT communications”, under review in *IEEE Transactions on Vehicular Technology* (submission: 19 Oct 2022). [[arXiv](https://arxiv.org/abs/2104.00735)] [[ResearchGate](https://www.researchgate.net/publication/350625766_Graph_Attention_Networks_for_Channel_Estimation_in_RIS-assisted_Satellite_IoT_Communications)]

**[JS22]** Mohammad Parvini, Amir Hossein Zarif, Ali Nouruzi, Nader Mokari, Mohammad Reza Javan, Bijan Abbasi, Amir Ghasemi, and Halim Yanikomeroglu, “Spectrum sharing schemes from 4G to 5G and Beyond: Protocol flow, regulation, ecosystem, economic”, under review in *IEEE Open Journal of the Communications Society* (submission: 13 Oct 2022, 1st results: 12 Dec 2022) [[arXiv](https://arxiv.org/abs/2203.11125)] [[ResearchGate](https://www.researchgate.net/publication/359391431)]

**[JS21]** 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”, under review in *IEEE Transactions on Green Communications and Networking* (submission: 12 Oct 2022, 1st results: 21 Nov 2022, 1st revision: 02 Dec 2022).

**[JS20]** Hongzhao Zheng, Mohamed Atia, and Halim Yanikomeroglu, “Implementation of a RAIM algorithm on the HAPS-aided GNSS for urban areas “, under review in *IEEE Open Journal of the Communications Society* (submission: 09 Oct 2022, 1st results: 08 Nov 2022, 1st revision: 12 Dec 2022).

**[JS19]** Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “Bitwise non-orthogonal multiple access with coordinated interleaving: Improved fairness, high reliability, and low latency for IoT networks”, under review in *IEEE Internet of Things Journal* (submission: 06 Oct 2022, 1st results: 08 Dec 2022).

**[JS18]** 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”, under review in *IEEE Transactions on Wireless Communications* (submission: 04 Oct 2022, 1st results: 27 Nov 2022).

**[JS17]** Siqiang Wang, Zesong Fei, Jing Guo, Qimei Cui, Salman Durrani, and Halim Yanikomeroglu, “Energy efficiency optimization for multiple access in NOMA-enabled space-air-ground networks”, under review in *IEEE Internet of Things Journal* (submission: 28 Sep 2022).

**[JS16]** 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”, under review in *IEEE Transactions on Vehicular Technology* (submission: 26 Sep 2022).

**[JS15]** Mine Ardanuc, Mehmet Basaran, Yassine Hmamouche, Lutfiye Durak-Ata, and Halim Yanikomeroglu, “Energy efficiency analysis in heterogeneous networks: A stochastic geometry perspective”, under review in *IEEE Systems Journal* (submission: 25 Sep 2022).

**[JS14]** Amin Farajzadeh, Mohammad G. Khoshkholgh, Halim Yanikomeroglu, and Ozgur Ercetin, “Self-evolving integrated vertical heterogeneous networks”, under review in *IEEE Open Journal of the Communications Society* (submission: 25 Sep 2022, 1st results: 30 Oct 2022). [[arXiv](https://arxiv.org/abs/2106.13950)] [[ResearchGate](https://www.researchgate.net/publication/352761231)]

**[JS13]** Youssra Cheriguene, Chaker Abdelaziz Kerrache, Wael Jaafar, Fatima Zohra Bousbaa, Halim Yanikomeroglu, and Nasreddine Lagraa, “DEEPS: Data-efficient and energy-aware participant selection for UAV-enabled edge dederated learning”, under review in *IEEE Transactions on Network and Service Management* (submission: 18 Sep 2022).

**[JS11]** Eylem Erdogan, Olfa Ben Yahia, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Optical HAPS eavesdropping in vertical heterogeneous networks”, under review in *IEEE Open Journal of Vehicular Technology* (submission: 16 Sep 2022, 1st results: 18 Oct 2022).

**[JS09]** 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: 28 Aug 2022).

**[JS08]** Animesh Yadav and Halim Yanikomeroglu, “Cell-edge capacity improvement via FD-HAPS”, under review in *IEEE Transactions on Wireless Communications* (submission: 22 Aug 2022, 1st results: 16 Nov 2022).

**[JS05]** Weihao Wang, Zesong Fei, Jing Guo, Salman Durrani, and Halim Yanikomeroglu, “Outage performance of multi-tier UAV communication with random beam misalignment”, under review in *IEEE Internet of Things Journal* (submission: 04 Jul 2022).

**[JS03]** Ali Fazeli, Ha Nguyen, and Halim Yanikomeroglu, “Bit-interleaved coded energy-based modulation with iterative decoding”, under review in *IEEE Transactions on Communications* (submission: 17 May 2022, 1st results: 09 Sep 2022, 1st revision: 04 Nov 2022). [TechRxiv]

**[JS02]** Omar Maraqa, Saad Al-Ahmadi, Aditya S. Rajasekaran, Hamza U. Sokun, Halim Yanikomeroglu, and Sadiq M. Sait, “Energy minimization in MEC-assisted cooperative THz-SIMO NOMA systems”, under review in *IEEE Transactions on Communications* (submission: 31 Jan 2022, 1st results: 20 Apr 2022, 1st revision: 22 Aug 2022, 2nd results: 30 Nov 2022).

**[J263]** Mohammed Y. Abdelsadek, Aizaz U. Chaudhry, Tasneem Darwish, Eylem Erdogan, Gunes Karabulut-Kurt, Pablo G. Madoery, Olfa Ben Yahia, and Halim Yanikomeroglu, “Future space networks: Toward the next giant leap for humankind”, Invited Paper, *IEEE Transactions on Communications* (acceptance: 01 Dec 2022). [[arXiv](https://arxiv.org/abs/2212.05668)] [[Xplore](https://ieeexplore.ieee.org/document/9982444)]

**[J262]** Irem Cumali, Berna Ozbek, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “User selection and codebook design for NOMA-based high altitude platform station (HAPS) communications”, *IEEE Transactions on Vehicular Technology* (acceptance: 30 Oct 2022). [[Xplore](https://ieeexplore.ieee.org/document/9942358)]

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**[J253]** 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](https://arxiv.org/abs/2201.04572)] [[ResearchGate](https://www.researchgate.net/publication/357791226)] [[Xplore](https://ieeexplore.ieee.org/document/9852986)]

**[J252]** Safia Beddiaf, Khelil Abdellatif, Faical Khennoufa, Ferdi Kara, Hakan Kaya, Xingwang Li, Khaled Rabie, and Halim Yanikomeroglu, “A unified performance analysis of cooperative NOMA with practical constraints: Hardware impairment, imperfect SIC and CSI”, *IEEE Access* (acceptance: 13 Dec 2022).

**[J251]** Poorya Aghaomidi, Amir Mohammadisarab, Jalil Mazloum, Mohammad Ali Akbarzadeh, Mahdi Orooji, Nader Mokari, Halim Yanikomeroglu, “DeepRTSNet: Deep robust two-stage networks for ECG denoising in practical use case”, *IEEE Access* (acceptance: 23 Nov 2022). [[Xplore](https://ieeexplore.ieee.org/document/9969597)]

**[J228]** Tasneem Darwish, Gunes Karabulut Kurt, Halim Yanikomeroglu, Guillaume Lamontagne, and Michel Bellemare, “Location management in Internet protocol-based future LEO satellite networks: A review”, *IEEE Open Journal of the Communications Society*, vol. 3, pp. 1035-1062, 2022. [[arXiv](https://arxiv.org/abs/2101.08336)] [[ResearchGate](https://www.researchgate.net/publication/348675552)] [[Xplore](https://ieeexplore.ieee.org/document/9804811)]

**[J223]** Michel Kulhandjian, Hovannes Kulhandjian, Claude D’Amours, Halim Yanikomeroglu, Dimitris A. Pados, and Gurgen Khachatrian, “Low-complexity decoder for overloaded uniquely decodable synchronous CDMA”, *IEEE Access*, vol. 10, pp. 46255-46275, 2022. [[arXiv](https://arxiv.org/abs/1806.03958)] [[ResearchGate](https://www.researchgate.net/publication/333555032)] [[Xplore](https://ieeexplore.ieee.org/document/9762979)]

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**[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](https://arxiv.org/abs/2107.06678)] [[ResearchGate](https://www.researchgate.net/publication/353258124_Optimal_Power_Allocation_in_Downlink_Multicarrier_NOMA_Systems_Theory_and_Fast_Algorithms)] [[Xplore](https://ieeexplore.ieee.org/document/9682500)]

**[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](https://www.researchgate.net/publication/349698737)] [[Xplore](https://ieeexplore.ieee.org/document/9378781)]

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