

List of Publications – Halim Yanikomeroglu

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Submissions under Review

[JS30] 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 Network Magazine* (submission: 23 Jun 2021).

[JS29] Jean-Daniel Medjo Me Biomo, Halim Yanikomeroglu, and Gunes Karabulut Kurt, “Routing in satellite networks: A comparison between monolithic and polyolithic constellations”, under review in *IEEE Access* (submission: 22 Jun 2021).

[JS28] Mohammad Hossein Bahonar, Mohammad Javad Omid, and Halim Yanikomeroglu, “Spectral efficient resource allocation for dense D2D communications in beyond 5G networks”, under review in *IEEE Access* (submission: 19 Jun 2021).

[JS27] 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”, under review in *IEEE Wireless Communications Letters* (submission: 17 Jun 2021).

[JS26] Zhitong Xing, Kaiming Liu, Aditya S. Rajasekaran, Halim Yanikomeroglu, and Yuanan Liu, “A hybrid of companding and zero-forcing precoding scheme for PAPR reduction in massive MIMO-OFDM downlink systems”, under review in *IEEE Communications Letters* (submission: 15 Jun 2021).

[JS25] Tasneem Darwish, Gunes Karabulut Kurt, Halim Yanikomeroglu, Guillaume Lamontagne, and Michel Bellemare, “Location management in IP-based future LEO satellite networks: A review”, under review in *the Proceedings of the IEEE* (submission: 10 Jun 2021). [[arXiv](#)]

[JS24] Aizaz U. Chaudhry, Guillaume Lamontagne, and Halim Yanikomeroglu, “Laser inter-satellite link range in free-space optical satellite networks: Impact on latency”, under review in *IEEE Network Magazine* (submission: 07 Jun 2021).

[JS23] 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).

[JS22] Jean-Daniel Medjo Me Biomo, Halim Yanikomeroglu, and Gunes Karabulut Kurt, “Supervised learning for routing in satellite networks: A synthetic dataset generation framework based on flooding protocol”, under review in *IEEE Transactions on Aerospace and Electronics Systems* (submission: 22 May 2021).

[JS21] 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 Communications Magazine* (submission: 22 May 2021).

[JS20] Wael Jaafar and Halim Yanikomeroglu, “HAPS-ITS: Enabling future ITS services in trans-continental highways”, under review in *IEEE Communications Magazine* (submission: 10 May 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS19] Atefeh Hajijamali Arani, M. Mahdi Azari, Peng Hu, Yeying Zhu, Halim Yanikomeroglu, and Safieddin Safavi-Naeini, “Green sky: Reinforcement learning for energy-efficient trajectory design of UAVs”, under review in *IEEE Internet of Things Journal* (submission: 04 May 2021).

[JS18] Hichem Semira, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “Multi-user joint maximum-likelihood detection in uplink IoT NOMA networks: Removing the error floor”, under review in *IEEE Wireless Communications Letters* (submission: 25 Apr 2021, 1st results: 28 May 2021).

[JS17] 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 Communications* (submission: 23 Apr 2021).

[JS16] Elham Kalantari, Sergey Loyka, Halim Yanikomeroglu, and Abbas Yongacoglu, “Optimal location of cellular base stations via convex optimization”, under review in *IEEE Transactions on Wireless Communications* (submission: 02 Apr 2021).

[JS15] Michel Kulhandjian, Gunes Karabulut Kurt, Hovannes Kulhandjian, Halim Yanikomeroglu, and Claude D’Amours, “NOMA computation over multi-access channels for multimodal sensing”, under review in *IEEE Wireless Communications Letters* (submission: 26 Mar 2021, 1st results: 14 Jun 2021).

[JS14] Safwan Alfattani, Wael Jaafar, Yassine Hmamouche, Halim Yanikomeroglu, and Abbas Yongacoglu, “Link budget analysis for reconfigurable smart surfaces in aerial platforms”, under review in *IEEE Open Journal of the Communications Society* (submission: 21 Mar 2021, 1st results: 26 Apr 2021, 1st revision: 24 Jun 2021). [[arXiv](#)]

[JS13] 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”, under review in *IEEE Wireless Communications Letters* (submission: 12 Mar 2021, 1st results: 08 Apr 2021).

[JS12] Michel Kulhandjian, Hovannes Kulhandjian, Claude D'Amours, Halim Yanikomeroglu, Dimitris A. Pados, and Gurgen Khachatryan, "Low-complexity decoder for overloaded uniquely decodable synchronous CDMA", under review in *IEEE Transactions on Information Theory* (submission: 08 Mar 2021).

[JS11] Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, "A lightweight machine learning assisted power optimization for minimum error in NOMA-CRS over Nakagami-m channels", under review in *IEEE Transactions on Vehicular Technology* (submission: 20 Feb 2021, 1st results: 12 Apr 2021, 1st revision: 12 Jun 2021).

[JS10] Wael Jaafar, Lina Bariah, Sami Muhaidat, and Halim Yanikomeroglu, "Time-switching and phase-shifting control for RIS-assisted SWIPT communications", under review in *IEEE Transactions on Vehicular Technology* (submission: 14 Feb 2021, 1st results: 01 Jun 2021).

[JS09] Najmeh Banitalebi, Paeiz Azmi, Nader Mokari, Atefeh Hajijamali Arani, and Halim Yanikomeroglu, "Distributed learning based resource allocation for self-organizing device-to-device communication in cellular networks", under review in *IEEE Transactions on Vehicular Technology* (submission: 04 Feb 2021).

[JS08] Oussama Ghdiri, Wael Jaafar, Safwan Alfattani, Jihene Ben Abderrazak, and Halim Yanikomeroglu, "Offline and online UAV-enabled data collection in time-constrained IoT networks", under review in *IEEE Transactions on Green Communications and Networking* (submission: 20 Jan 2021, 1st results: 21 Apr 2021, 1st revision: 20 May 2021, 2nd results: 18 Jun 2021).

[JS07] Kursat Tekbiyik, Gunes Karabulut Kurt, and Halim Yanikomeroglu, "Energy-efficient RIS-assisted satellites for IoT networks", under review in *IEEE Internet of Things Journal* (submission: 15 Jan 2021, 1st results: 30 Apr 2021, 1st revision: 21 May 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS06] Mine Ardanuc, Mehmet Basaran, Yassine Hmamouche, Lutfiye Durak-Ata, and Halim Yanikomeroglu, "Energy efficiency analysis in heterogeneous cellular networks: A stochastic geometry perspective", under review in *IEEE Networking Letters* (submission: 31 Dec 2020, 1st results: 22 Feb 2021).

[JS05] Pouya M. Ghari, Maryam Sabbaghian, and Halim Yanikomeroglu, "Moving aerial anchors assisted network localization", under review in *IEEE Transactions on Wireless Communications* (submission: 31 Dec 2020, 1st results: 11 Apr 2021, 1st revision: 20 May 2021).

[JS04] Kursat Tekbiyik, Gunes Karabulut Kurt, Ali Riza Ekti, Ali Gorcin, and Halim Yanikomeroglu, "Reconfigurable intelligent surfaces empowered THz communication for LEO satellite networks", under review in *IEEE Transactions on Wireless Communications* (submission: 15 Dec 2020). [[arXiv](#)] [[ResearchGate](#)]

[JS03] Adem Cicek, Enver Cavus, Ebrahim Bedeer, and Halim Yanikomeroglu, "Low complexity soft-output faster-than-Nyquist detector based on semidefinite relaxation", under review in *IEEE*

Communications Letters (submission: 12 Sep 2020, 1st results: 18 Oct 2020). [[arXiv](#)] [[ResearchGate](#)]

[JS02] Tasneem Darwish, Gunes Karabulut Kurt, Halim Yanikomeroglu, Gamini Senarath, and Peiyang Zhu, “A vision of self-evolving network management for future intelligent vertical HetNet”, under review in *IEEE Wireless Communications Magazine* (submission: 04 Sep 2020, 1st results: 22 Jan 2021, 1st revision: 08 Mar 2021). [[arXiv](#)] [[ResearchGate](#)]

[JS01] Weili Wang, Chengchao Liang, Qianbin Chen, Lun Tang, and Halim Yanikomeroglu, “Distributed online anomaly detection for virtualized network slicing environment”, under review in *IEEE/ACM Transactions on Networking* (submission: 21 Jul 2020).

[CS02] Qiqi Ren, Omid Abbasi, Gunes Karabulut Kurt, Halim Yanikomeroglu, and Jian Chen, “High Altitude Platform Station (HAPS) Assisted Computing for Intelligent Transportation Systems”, under review in *IEEE Globecom 2021*, 7–11 December 2021, Madrid, Spain.

[CS01] Omid Abbasi and Halim Yanikomeroglu, “A cell-free scheme for UAV base stations with HAPS-assisted backhauling in THz band”, under review in *IEEE Globecom 2021*, 7–11 December 2021, Madrid, Spain.

Refereed Publications

2021

[J206] Nesrine Cherif, Wael Jaafar, Halim Yanikomeroglu, and Abbas Yongacoglu, “3D Aerial highways: The key enabler of the retail industry transformation”, *IEEE Communications Magazine* (acceptance: 22 Jun 2021). [[arXiv](#)] [[ResearchGate](#)]

[J205] Rawan Alkurd, Ibrahim Abualhaol, and Halim Yanikomeroglu, “Preserving user privacy in personalized networks”, *IEEE Networking Letters* (acceptance: 19 Jun 2021).

[J204] 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* (acceptance: 11 May 2021). [[Xplore](#)]

[J203] Caner Goztepe, Saliha Büyükçorak, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Localization threats in next-generation wireless networks”, *IEEE Communications Magazine* (acceptance: 02 Jun 2021).

[J202] 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* (acceptance: 24 May 2021). [[Xplore](#)]

[J201] Gunes Karabulut Kurt and Halim Yanikomeroglu, “Communication, computing, caching, and sensing for next generation aerial delivery networks”, *IEEE Vehicular Technology Magazine* (acceptance: 20 May 2021). [[arXiv](#)] [[ResearchGate](#)]

[J200] 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* (acceptance: 15 May 2021). [[Xplore](#)]

[J199] 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* (acceptance: 19 Apr 2021). [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J198] 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* (acceptance: 02 April 2021). [[ResearchGate](#)] [[Xplore](#)]

[J197] Amir Mehrabian, Maryam Sabbaghian, and Halim Yanikomeroglu, “Spectrum sensing for symmetric α -stable noise model with convolutional neural networks”, *IEEE Transactions on Communications* (acceptance: 24 Mar 2021). [[ResearchGate](#)] [[Xplore](#)]

[J196] Yucel Aydin, Gunes Karabulut Kurt, Enver Ozdemir, and Halim Yanikomeroglu, “Group handover for drone-mounted base stations”, *IEEE Internet of Things Journal* (acceptance: 16 Mar 2021). [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J195] 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* (acceptance: 15 Mar 2021). [[ResearchGate](#)] [[Xplore](#)]

[J194] 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](#)] [[Xplore](#)]

[J193] 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). [[Xplore](#)]

[J192] Aizaz U. Chaudhry and Halim Yanikomeroglu, “Free space optics for next-generation satellite networks”, *IEEE Consumer Electronics Magazine* (acceptance: 01 Oct 2020). [[arXiv](#)] [[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. [[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. [[Xplore](#)]

[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. [[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, “Intra-cell frequency band exiling for green wireless networks”, *IEEE Vehicular Technology Magazine*, vol. 16, no. 2, pp. 31-39, June 2021. [[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. [[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. [[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. [[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. [[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](#)] [[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](#)] [[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](#)]

[J170] Md Sahabul Alam, Gunes Karabulut Kurt, Halim Yanikomeroglu, Peiying Zhu, and Ngoc Dung Dao, “High altitude platform station based super macro base station constellations”, *IEEE Communications Magazine*, vol. 59, no. 1, pp. 103-109, January 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J169] Safwan Alfattani, Wael Jaafar, Yassine Hmamouche, Halim Yanikomeroglu, Abbas Yongacoglu, Ngoc Dung Dao, and Peiyong Zhu, “Aerial platforms with reconfigurable smart surfaces for 5G and beyond”, *IEEE Communications Magazine*, vol. 59, no. 1, pp. 96-102, January 2021. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J168] Monirosharieh Vameghestahbanati, Ian D. Marsland, Ramy H. Gohary, and Halim Yanikomeroglu, “Hypercube-based SNR-adaptive multidimensional constellation design for uplink SCMA systems”, *IEEE Transactions on Communications*, vol. 69, no. 1, pp. 121-132, January 2021. [[ResearchGate](#)] [[Xplore](#)]

[J167] Eylem Erdogan, Ibrahim Altunbas, Nihat Kabaoglu, and Halim Yanikomeroglu, “A cognitive radio enabled RF/FSO communication model for aerial relay networks: Possible configurations and opportunities”, *IEEE Open Journal of Vehicular Technology*, vol. 2, pp. 45-53, 2021. [[TechRxiv](#)] [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[C277] Omar Maraqa, Aditya S. Rajasekaran, Hamza U. Sokun, Saad Al-Ahmadi, Halim Yanikomeroglu, and Sadiq M. Sait, “Energy-efficient coverage enhancement of indoor THZ-MISO systems: An FD-NOMA approach”, *IEEE PIMRC 2021*, 13–16 September 2021 || Virtual Conference. [[arXiv](#)] [[ResearchGate](#)]

[C276] Emre Cerci, Adem Cicek, Enver Cavus, Ebrahim Bedeer, and Halim Yanikomeroglu, “Coded faster-than-Nyquist signaling for short packet communications”, *IEEE PIMRC 2021*, 13–16 September 2021 || Virtual Conference. [[arXiv](#)]

[C275] Aizaz U. Chaudhry and Halim Yanikomeroglu, “Optical wireless satellite networks versus optical fiber terrestrial networks: The latency perspective”, Invited Paper, *Biennial Symposium on Communications (BSC) 2021*, 28–30 June 2021 || Virtual Conference. [[arXiv](#)] [[ResearchGate](#)]

[C274] Rawan Alkurd, Ibrahim Abualhaol, and Halim Yanikomeroglu, “User satisfaction prediction framework for personalized wireless networks: A DNN approach”, *IEEE ICC Workshops 2021*, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference.

[C273] Mohammed Younis Abdelsadek, Halim Yanikomeroglu, and Gunes Karabulut Kurt, “Future ultra-dense LEO satellite networks: A cell-free massive MIMO approach”, *IEEE ICC Workshops 2021*, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [[arXiv](#)]

[C272] Nesrine Cherif, Wael Jaafar, Halim Yanikomeroglu, and Abbas Yongacoglu, “Disconnectivity-aware energy-efficient cargo-UAV trajectory planning with minimum handoffs”, *IEEE ICC 2021*, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference.

[C271] Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “RSS-based UAV-BS 3-D mobility management via policy gradient deep reinforcement learning”, *IEEE ICC 2021*, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [[arXiv](#)]

[C270] Kursat Tekbıyık, Gunes Karabulut Kurt, Chongwen Huang, Ali Rıza Ekti, Halim Yanikomeroglu, “Channel estimation for full-duplex RIS-assisted HAPS backhauling with graph

attention networks”, *IEEE ICC 2021*, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [[arXiv](#)] [[ResearchGate](#)]

[C269] Islam Abu Mahady, Ebrahim Bedeer, Salama Ikki, and Halim Yanikomeroglu, “NOMA spectral efficiency maximization with improper Gaussian signaling and SIC imperfection”, *IEEE ICC 2021*, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference.

[C268] Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “Power control in spectrum sharing systems with almost-zero inter-system signaling overhead”, *IEEE ICC 2021*, 14–18 June 2021, Montreal, Quebec, Canada || Virtual Conference. [[arXiv](#)]

[C267] Aybuke Zeynep Cengiz, Semiha Tedik Basaran, Berna Ozbek, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Approximation of correlation matrix for high altitude platform stations (Yüksek İrtifa Platform İstasyonları için Korelasyon Matrisinin Yaklaşımı)”, *The 29th IEEE Conference on Signal Processing and Communications Applications (SIU 2021)*, 9–11 June 2021 || Virtual Conference.

[C266] Olfa Ben Yahia, Eylem Erdogan, Gunes Karabulut Kurt, Ibrahim Altunbas, and Halim Yanikomeroglu, “Physical layer security framework for optical non-terrestrial networks”, Invited Paper, *28th International Conference on Telecommunications (ICT 2021) Workshops*, 1-3 June 2021 || Virtual Conference. [[arXiv](#)] [[ResearchGate](#)]

[C265] Inci Umakoglu, Mustafa Namdar, Arif Basgumus, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “BER performance comparison of AF and DF assisted relay selection schemes in cooperative NOMA systems”, *IEEE BlackSeaCom 2021*, 24–28 May 2021 || Virtual Conference.

[C264] Omid Abbasi and Halim Yanikomeroglu, “Rate-splitting and NOMA-enabled uplink user cooperation”, *IEEE WCNC Workshops 2021*, 29 March – 01 April 2021, Nanjing, China | hybrid. [[Xplore](#)]

[C263] Nadir Adam, Cristiano Tapparello, Wendi Heinzelman, and Halim Yanikomeroglu, “Placement optimization of multiple UAV base stations”, *IEEE Wireless Communications and Networking Conference (WCNC) 2021*, 29 March – 01 April 2021, Nanjing, China | hybrid. [[Xplore](#)]

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[J166] Wael Jaafar, Shimaa Naser, Sami Muhaidat, Paschalis C. Sofotasios, and Halim Yanikomeroglu, “On the downlink performance of RSMA-based UAV communications”, *IEEE Transactions on Vehicular Technology*, vol. 69, no. 12, pp. 16258-16263, December 2020. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J165] Maedeh Hojjati, Alireza Shafieinejad, and Halim Yanikomeroglu, “A blockchain-based authentication and key agreement (AKA) protocol for 5G networks”, *IEEE Access*, vol. 8, pp. 216461-216476, 2020. [[Xplore](#)]

[J164] Aditya S. Rajasekaran, Omar Maraqa, Hamza Umit Sokun, Halim Yanikomeroglu, and Saad Al-Ahmadi, “User clustering in mmWave-NOMA systems with user decoding capability constraints”, *IEEE Access*, vol. 8, pp. 209949-209963, 2020. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J163] Kursat Tekbiyik, Ali Riza Ekti, Gunes Karabulut Kurt, Ali Gorcin, and Halim Yanikomeroglu, “A holistic investigation on terahertz propagation and channel modeling toward vertical heterogeneous networks”, *IEEE Communications Magazine*, vol. 58, no. 11, pp. 14-20, November 2020. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J162] Omar Maraqa, Aditya S. Rajasekaran, Saad Al-Ahmadi, Halim Yanikomeroglu, and Sadiq M. Sait, “A survey of rate-optimal power domain NOMA with enabling technologies of future wireless networks”, *IEEE Communications Surveys & Tutorials*, vol. 22, no. 4, pp. 2192-2235, Fourthquarter 2020. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J161] Wael Jaafar, Shimaa Ayman Naser, Sami Muhaidat, Paschalis C. Sofotasios, and Halim Yanikomeroglu, “Multiple access in aerial networks: From orthogonal and non-orthogonal to rate-splitting”, Invited Paper, *IEEE Open Journal of Vehicular Technology*, vol. 1, pp. 372-392, 2020. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[J160] Elham Kalantari, Halim Yanikomeroglu, and Abbas Yongacoglu, “Wireless networks with cache-enabled and backhaul-limited aerial base stations”, *IEEE Transactions on Wireless Communications*, vol. 19, no. 11, pp. 7363-7376, November 2020. [[arXiv](#)] [[ResearchGate](#)] [[Xplore](#)]

[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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