22 Jul 2022

**TO BE SUBMITTED**

**[P01]** Tasneem, controller placement

**[P02]** Nesrine, Wael (mobility) – letter

**[P03]** Amirhossein Mohajerzadeh – JSEN (Collaborative and Fast Data Exchange in NBIoT Two-Tier Networks)

**[P04]** Amirhossein Mohajerzadeh – Drone cell off

**[P05]** Amin (+ Animesh + Omid) – transactions (FL for HAPS)

**[P06]** Amin (+ Animesh + Omid) – magazine (FL for HAPS)

**[P07]** Animesh – TWC (Cell-edge capacity enhancement via HAPS)

**[P08]** Animesh (+ Safwan) – ? (Multiple access via RIS)

**[P09]** Chris Wright @ KSU (+ Animesh + Sumit Chakravarty) – letter (RIS-aided cooperative NOMA)

**[P10]** Luc Roberts @ KSU (+ Animesh + Sumit Chakravarty) ? (RL-based beam allocation for multibeam multi-satellite systems).

**[P11]** Mohieddin Shaksheer (+ Animesh) ? (Outage probability analysis for dynamic SIC decoding for uplink NOMA)

**[P12]** Omid + Animesh – magazine (HAPS for 6G: Use cases and challenges)

**[P13]** Omid – 3rd work

**[P14]** Aditya – transactions

**[P15]** Cihan + Ferdi + Wael – magazine

**[P16]** Eylem – magazine

**[P17]** Afsoon (+ Animesh + Omid) – letter (Resource allocation in sustainable vHetNets)

**[P18]** Afsoon – letter

**[P19]** Safwan (+ Animesh) – letter (HAPS-RIS Enabled Beyond-Cell Communication: A Resource Efficient Approach)

**[P20]** Safwan (+ Animesh) – letter (OMA and NOMA beyond-cell communications via HAPS-RIS)

**[P21]** Safwan (+ Wael) – ? ( HAPS Constellation Supported by Reconfigurable Intelligent Surfaces for Backhauling and Inter-HAPS Links)

**[P22]** Rozita – transactions

**[P23]** Zichao – JSAC SI

**[P24]** Hongzhao – journal

**TO BE RESUBMITTED**

**[]** Beddiaf Safia, Khelil Abdellatif, Faical Khennoufa, Ferdi Kara, Hakan Kaya, Xingwang Li, Khaled Rabie, and Halim Yanikomeroglu, “Error analysis of cooperative NOMA with practical constraints: Hardware-impairment, imperfect SIC and CSI”,

* *IEEE Communications Letters* (submission: 28 Jun 2022 🡪 reject: 22 Jul 2022).

**[]** Mohsen Tajallifar, Ahmad R. Sharafat, and Halim Yanikomeroglu, “Robust and feasible QoS-aware mmWave massive MIMO hybrid beamforming”,

* *IEEE Transactions on Wireless Communications* (submission: 07 Jan 2022 🡪 reject: 15 Apr 2022).

**[]** Sanjeev Gurugopinath, Lina Bariah, Sami Muhaidat, Rajaleksmi Kishore, Paschalis C. Sofotasios, Faissal El Bouanani, and Halim Yanikomeroglu, “The interplay of NOMA and GSSK: Detection strategies and performance analysis”,

* *IEEE Transactions on Communications* (submission: 17 Aug 2020 🡪 reject: 08 Nov 2020);
* *IEEE Transactions on Green Communications and Networking* (submission: 08 Nov 2021 🡪 editor-reject: 16 Nov 2021);
* *IEEE Transactions on Vehicular Technology* (submission: 17 Nov 2021 🡪 reject: 09 Jan 2022); “Interplay of NOMA and GSSK: Detection strategies and performance analysis”,
* *IEEE Open Journal of the Communications Society* (submission: 25 Jan 2022, 1st revision: 16 Mar 2022 🡪 reject: 12 Apr 2022). [[arXiv](https://arxiv.org/abs/2105.11186)] [[ResearchGate](https://www.researchgate.net/publication/351840735)]

**[]** Mohammad Parvini, Amir Hossein Zarif, Ali Nouruzi, Nader Mokari, Mohammad Reza Javan, Bijan Abbasi, Amir Ghasemi, and Halim Yanikomeroglu, “A comprehensive survey of spectrum sharing schemes from a standardization and implementation perspective”,

* *IEEE Communications Surveys and Tutorials* (submission: 16 Jan 2022 🡪 reject: 21 Mar 2022). [[arXiv](https://arxiv.org/abs/2203.11125)] [[ResearchGate](https://www.researchgate.net/publication/359391431)]

**[]** Ali Nouruzi, Atefeh Rezaei, Ata Khalili, Nader Mokari, Mohammad Reza Javan, Eduard A. Jorswieck, and Halim Yanikomeroglu, “Toward a smart resource allocation policy via artificial intelligence in 6G networks: Centralized or decentralized?”,

* *IEEE Communications Magazine* (submission: 21 Feb 2022 🡪 reject: 17 Mar 2022). [[arXiv](https://arxiv.org/abs/2202.09093)] [[ResearchGate](https://www.researchgate.net/publication/358741147)]

**[]** 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”,

* *IEEE Transactions on Aerospace and Electronics Systems* (submission: 22 May 2021 🡪 reject: 03 Aug 2021).

**[]** Gunes Karabulut Kurt, Ozan Alp Topal, Guillaume Lamontagne, and Halim Yanikomeroglu, “On the use of space relay satellites for space networks”,

* *IEEE Network Magazine* (submission: 31 Jan 2021 🡪 reject: 01 Apr 2021).

**[]** Shahla Mohsenifard, Ahmad R. Sharafat, and Halim Yanikomeroglu, “Joint power control, channel assignment and cell association in heterogeneous cellular networks”,

* *IEEE Communications Letters* (submission: 14 Jun 2020 🡪 reject: 13 Jul 2020).

**RESUBMITTED – UNDER REVIEW**

**[]** 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”,

* *IEEE Transactions on Mobile Computing* (submission: 09 May 2020 🡪 reject: 07 Oct 2020);
* *IEEE Transactions on Vehicular Technology* (submission: 04 Feb 2021 🡪 reject: 03 Aug 2021);
* *IEEE Access* (submission: 04 Oct 2021 🡪 reject: 11 Nov 2021). “Distributed learning based resource allocation for self-organizing C-V2X communication in cellular networks”;
* *IEEE Transactions on Network and Service Management* (submission: 04 Jan 2022 🡪 reject: 07 May 2022);
* *IEEE Open Journal of the Communications Society* (submission: 26 Jun 2022).

**[]** Tolga Ovatman, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “An accurate model for computation offloading and a HAPS-based case study”,

* *IEEE Transactions on Network and Service Management* (submission: 22 Sep 2021 🡪 editor-reject: 26 Sep 2021);
* *IEEE Transactions on Mobile Computing* (submission: 30 Sep 2021 🡪 reject: 27 Dec 2021);
* *IEEE Transactions on Aerospace and Electronic Systems* (submission: 19 Jan 2022 🡪 reject: 13 Mar 2022);
* *IEEE Open Journal of the Communications Society* (submission: 15 Jun 2022).

**[]** Aizaz U. Chaudhry and H. Yanikomeroglu, “Temporary laser inter-satellite links in free-space optical satellite networks”,

* *IEEE Access* (submission: 30 Jan 2022 🡪 reject: 25 Mar 2022);
* *IEEE Open Journal of the Communications Society* (submission: 13 Jun 2022).

**[]** Mohammed Abdelsadek, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Distributed massive MIMO for LEO satellite networks”,

* *IEEE Transactions on Wireless Communications* (submission: 23 Dec 2021 🡪 reject: 13 May 2022);
* *IEEE Open Journal of the Communications Society* (submission: 06 Jun 2022).

**[]** Mine Ardanuc, Mehmet Basaran, Yassine Hmamouche, Lutfiye Durak-Ata, and Halim Yanikomeroglu, “Approximate energy efficiency analysis in non-Poisson heterogeneous cellular networks”,

* *IEEE Communications Letters* (submission: 08 Sep 2020 🡪 reject: 14 Oct 2020);
* *IEEE Wireless Communications Letters* (submission: 19 Nov 2020 🡪 reject: 21 Dec 2020); “Energy efficiency analysis in heterogeneous cellular networks: A stochastic geometry perspective”;
* *IEEE Networking Letters* (submission: 31 Dec 2020, 1st results: 22 Feb 2021), 1st revision: 24 Mar 2022 🡪 reject: 12 May 2022); *IEEE Globecom 2022*.

**[]** Islam Abu Mahady, Ebrahim Bedeer, Salama Ikki, and Halim Yanikomeroglu, “Joint optimization of power allocation and circularity coefficients in full-duplex NOMA relaying systems using improper Gaussian signaling”,

* *IEEE ICC 2022*;
* *IEEE Globecom 2022*.

**[]** Aditya S. Rajasekaran, Hamza U. Sokun, Omar Maraqa, Halim Yanikomeroglu, and Saad Al-Ahmadi, “Vision assisted user clustering for robust mmWave-NOMA”,

* *IEEE Communications Magazine* (submission: 22 Feb 2022, 1st results: 12 Apr 2022, withdrawal: 19 May 2022);
* *IEEE Globecom 2022*.

**[]** Kursat Tekbiyik, Gunes Karabulut Kurt, Ali Riza Ekti, Ali Gorcin, and Halim Yanikomeroglu, “Reconfigurable intelligent surface empowered THz communication for LEO satellite networks”,

* *IEEE Journal in Selected Areas in Communications* (submission: 07 Jul 2020 🡪 reject: 02 Oct 2020);
* *IEEE Transactions on Wireless Communications* (submission: 15 Dec 2020 🡪 reject: 04 Aug 2021);
* *IEEE Transactions on Vehicular Technology* (submission: 17 May 2022). [[arXiv](https://arxiv.org/abs/2007.04281)] [[ResearchGate](https://www.researchgate.net/publication/342801743)]

**[]** 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”,

* *IEEE Wireless Communications Magazine* (submission: 04 Dec 2020 🡪 reject: 23 Apr 2021);
* *IEEE Network Magazine* (submission: 23 Jun 2021 🡪 reject: 27 Sep 2021);
* *IEEE Vehicular Technology Magazine* (submission: 11 Oct 2021 🡪 reject: 20 Jan 2022);
* *IEEE Communications Magazine* (submission: 21 Mar 2022 🡪 unsubmitted);
* *IEEE Consumer Electronics Magazine* (submission: 17 Apr 2022).

**[]** 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 Journal on Selected Areas in Communications* (submission: 30 Sep 2021 🡪 reject: 18 Dec 2021);
* *IEEE Transactions on Vehicular Technology* (submission: 10 Mar 2022).

**[]** Aditya S. Rajasekaran, Hamza U. Sokun, Omar Maraqa, Halim Yanikomeroglu, and Saad Al-Ahmadi, “Vision assisted user clustering for robust mmWave-NOMA”,

* *IEEE Communications Magazine* (submission: 25 Aug 2021 🡪 reject: 19 Nov 2021; resubmission: 22 Feb 2022, 1st results: 12 Apr 2022).

**[]** Kursat Tekbiyik, Gunes Karabulut Kurt, Ali Riza Ekti, and Halim Yanikomeroglu, “Graph attention networks for channel estimation in RIS-assisted satellite IoT communications”,

* *IEEE Internet of Things Journal* (submission: 01 Apr 2021 🡪 reject: 26 May 2021); *IEEE Access* (submission: 31 Aug 2021, returned: 14 Sep 2021);
* *IEEE Transactions on Green Communications and Networking* (submission: 16 Sep 2021 🡪 reject: 29 Nov 2021);
* *IEEE Transactions on Aerospace and Electronics Systems* (submission: 26 Jan 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)]

**[]** Zuleyha Akusta Dagdeviren, Vahid Khalilpour Akram, Orhan Dagdeviren, Bulent Tavli, and Halim Yanikomeroglu, “k-Connectivity in wireless sensor networks: Overview and future research directions”,

* *IEEE Communications Magazine* (submission: 22 May 2021 🡪 reject: 15 Jul 2021);
* *IEEE Network Magazine* (submission: 25 Dec 2021).

**[]** Aizaz U. Chaudhry and Halim Yanikomeroglu, “Laser inter-satellite link range in free-space optical satellite networks: Impact on connectivity and latency”,

* *IEEE Vehicular Technology Magazine* (submission: 26 Mar 2021 🡪 reject: 16 Apr 2021).
* Aizaz U. Chaudhry, Guillaume Lamontagne, and Halim Yanikomeroglu, “Laser inter-satellite link range in free-space optical satellite networks: Impact on latency”, *IEEE Network Magazine* (submission: 07 Jun 2021 🡪 reject: 05 Nov 2021);
* *IEEE Aerospace and Electronic Systems Magazine* (submission: 24 Dec 2021, 1st results: 14 Apr 2022).

**[]** Elham Kalantari, Sergey Loyka, Halim Yanikomeroglu, and Abbas Yongacoglu, “On optimal location of base stations”,

* *IEEE Transactions on Wireless Communications* (submission: 28 Dec 2018 🡪 reject: 16 Mar 2019). “Optimal location of cellular base stations via convex optimization”;
* *IEEE Transactions on Wireless Communications* (resubmission: 02 Apr 2021 🡪 reject: 24 Jul 2021);
* *IEEE Transactions on Vehicular Technology* (submission: 30 Oct 2021).

**[]** Amin Farajzadeh, Mohammad G. Khoshkholgh, Halim Yanikomeroglu, and Ozgur Ercetin, “Self-evolving integrated vertical heterogeneous networks”,

* *IEEE Communications Surveys and Tutorials* (submission: 25 Jun 2021 🡪 reject: 08 Sep 2021);
* *Proceedings of the IEEE* (submission: 13 Oct 2021). [[arXiv](https://arxiv.org/abs/2106.13950)] [[ResearchGate](https://www.researchgate.net/publication/352761231)]

**CLOSED WITH FAILURE**

**[]** Jean-Daniel Medjo Me Biomo, Halim Yanikomeroglu, and Gunes Karabulut Kurt, “Routing in satellite networks: A comparison between monolithic and polylithic constellations”,

* *IEEE Consumer Electronics Magazine* (submission: 08 Mar 2021 🡪 editor-reject: 11 Mar 2021; resubmission: 18 Mar 2021 🡪 reject: 18 Apr 2021);
* *IEEE Access* (submission: 22 Jun 2021 🡪 reject: 20 Jul 2021); “Shortest-path routing in satellite networks: A comparison between monolithic and polylithic constellations”;
* *IEEE Access* (resubmission: 31 Jan 2022, 1st results: 09 Mar 2022).

**[]** Adem Cicek, Enver Cavus, Ebrahim Bedeer, and Halim Yanikomeroglu, “Low complexity soft-output faster-than-Nyquist detector based on semidefinite relaxation”,

* *IEEE Communications Letters* (submission: 12 Sep 2020, 1st results: 18 Oct 2020). [[arXiv](https://arxiv.org/abs/2009.06128)] [[ResearchGate](https://www.researchgate.net/publication/344233919)]

**[]** Abolfazl Zakeri, Nader Mokari, and Halim Yanikomeroglu, “Joint radio resource allocation and 3D beamforming in MISO-NOMA-based networks: Profit maximization for mobile virtual network operators”,

* *IEEE Transactions on Communications* (submission: 19 Oct 2019 🡪 reject: 01 Apr 2020).

**[]** Recep Ozdag and Halim Yanikomeroglu, “Optimal altitude selection of drone-BS to maximize coverage and 3D location optimization of multiple drone-BSs: A new metaheuristic approach”,

* *IEEE Access* (submission: 17 Oct 2020 🡪 reject: 19 Nov 2020);
* *IEEE Sensors Journal* (submission: 04 Mar 2021 🡪 editor-reject: 16 Mar 2021);
* *IEEE Access* (submission: 21 Mar 2021 🡪 editor-reject: 24 Mar 2021).

**[]** Margarita Gapeyenko, Vitaly Petrov, Dmitri Moltchanov, Sergey Andreev, Yevgeni Koucheryavy, Mikko Valmaka, and Halim Yanikomeroglu, “Mission-critical UAV applications over integrated terrestrial and non-terrestrial 5G/5G+ networks”,

* *IEEE Vehicular Technology Magazine* (submission: 15 Oct 2018 🡪 reject: 01 Jan 2019).

**[]** Faraj Lagum, Sebastian Szyszkowicz, and Halim Yanikomeroglu, “A metric for measuring the spatial relationship among the base stations and its applications”,

* *IEEE Trans. Wireless Communications* (submission: 06 Sep 2018 🡪 reject: 07 Mar 2019).

**[]** Yaser – letter

**[]** Andrey Samuylov, Antonino Orsino, Dmitri Moltchanov, Sergey Andreev, Leonardo Militano, Giuseppe Araniti, Antonio Iera, Halim Yanikomeroglu, Markku Juntti, and Yevgeni Koucheryavy, “On tighter user involvement in multi-connectivity 5G scenarios with access infrustructure mobility”,

* *IEEE Journal on Selected Areas in Communications* (submission: 22 Sep 2016).

**[]** Nima Palizban

**[]** Hasan Basri Celebi, Lutfiye Durak-Ata, and Halim Yanikomeroglu, “Efficient sampling strategies for massive IoT systems”,

* *IEEE Communications Magazine* (submission: 26 Jun 2016).

**[]** Amr El-Keyi and Halim Yanikomeroglu, “Optimal mitigation of cross-tier and full-duplex interference in heterogeneous networks”,

* *IEEE Transactions on Communications* (submission: 26 Mar 2016).

**[]** Mohamed Rashad Salem, Abdulkareem Adinoyi and Halim Yanikomeroglu, “Distributed resource allocation for device-type relay nodes in OFDMA-based fixed relay networks,"

* *IEEE Transactions on Vehicular Technology* (submission: 22 Sep 2015).

**[]** Gencer Cili, Halim Yanikomeroglu, and F. Richard Yu, “Adaptive estimation, prediction and feedback reporting schemes for improved capacity and energy efficiency in coordinated multi-point (CoMP) networks”,

* *IEEE Access* (submission: 10 Sep 2015).

**CLOSED WITH SUCCESS**

**[]** Selen Gecgel, Caner Goztepe, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Learning-driven physical layer: Assumptions, facts, challenges, and remedies”,

* *IEEE Communications Magazine* (submission: 11 Dec 2020 🡪 reject: 25 Jan 2021);
* *IEEE Vehicular Technology Magazine* (submission: 14 Feb 2021 🡪 reject: 26 May 2021);
* “A glimpse of physical layer decision mechanisms: Facts, challenges, and remedies”, *IEEE Open Journal of the Communications Society* (submission: 16 Mar 20221st results: 03 May 2022, 1st revision: 24 Jun 2022 🡪 accept: 21 Jul 2022.). [[arXiv](https://arxiv.org/abs/2102.07258)] [[ResearchGate](https://www.researchgate.net/publication/349311915)]

**[]** 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”,

* *IEEE Communications Letters* (submission: 15 Jun 2021 🡪 reject: 15 Jul 2021);
* *IEEE Wireless Communications Letters* (submission: 11 Aug 2021 🡪 reject: 07 Sep 2021).
* Zhitong Xing, Yun Li, Aditya S. Rajasekaran, Deyi Peng, and Halim Yanikomeroglu, “Variation approach based nonlinear companding scheme for PAPR reduction in OFDM systems”, *IEEE Transactions on Broadcasting* (submission: 22 Mar 2022, 1st results: 06 Jun 2022, 1st revision: 16 Jul 2022 🡪 accept: 21 Jul 2022).

**[]** Lina Bariah, Wael Jaafar, Sami Muhaidat, Hany Elgala, and Halim Yanikomeroglu, “On the error performance of LoRa-enabled aerial networks over shadowed Rician fading channels”,

* *IEEE Communications Letters* (submission: 19 Mar 2022, 1st results: 17 Apr 2022, 1st revision: 01 Jul 2022 🡪 accept: 20 Jul 2022).

**[]** Omid Abbasi and Halim Yanikomeroglu, “Transmission structure, detection scheme and power allocation for uplink user cooperation with NOMA and RSMA”,

* *IEEE Transactions on Communications* (submission: 15 Dec 2020 🡪 reject: 07 Mar 2021).
* “Transmission scheme, detection and power allocation for uplink user cooperation with NOMA and RSMA”, *IEEE Transactions on Communications* (resubmission: 23 Apr 2021 🡪 reject: 30 Jun 2021);
* *IEEE Transactions on Wireless Communications* (submission: 04 Jul 2021, 1st results: 17 Dec 2021, 1st revision: 12 Feb 2022, 2nd results: 02 May 2022, 2nd revision: 01 Jun 2022 🡪 acceptance: 19 Jul 2022).

**[]** Weili Wang, Chengchao Liang, Qianbin Chen, Lun Tang, and Halim Yanikomeroglu, “Distributed online anomaly detection for virtualized network slicing environment”,

* *IEEE Transactions on Network and Service Management* (submission: 10 Mar 2020 🡪 reject: 02 May 2020);
* *IEEE/ACM Transactions on Networking* (submission: 21 Jul 2020 🡪 reject: 26 Jul 2021);
* *IEEE Transactions on Vehicular Technology* (submission: 09 Sep 2021, 1st results: 13 Dec 2021, 1st revision: 28 Dec 2021, 2nd results: 08 Apr 2022, 2nd revision: 13 Apr 2022 🡪 accept: 12 Jul 2022). [[arXiv](https://arxiv.org/abs/2201.01900)] [[ResearchGate](https://www.researchgate.net/publication/357645993)]).

**[]** Wael Jaafar and Halim Yanikomeroglu, “HAPS-ITS: Enabling future ITS services in trans-continental highways”,

* *IEEE Communications Magazine* (submission: 10 May 2021, 1st results: 20 Jun 2021, 1st revision: 17 Aug 2021 🡪 reject: 24 Sep 2021);
* *IEEE Communications Magazine* (resubmission: 17 Jan 2022, 1st results: 13 Mar 2022, 1st revision: 09 May 2022, 2nd results: 05 Jun 2022, 2nd revision: 08 Jun 2022 🡪 accept: 19 Jun 2022). [[arXiv](https://arxiv.org/abs/2105.04756)] [[ResearchGate](https://www.researchgate.net/publication/351475360)]

**[]** Tasneem Darwish, Gunes Kurt, Halim Yanikomeroglu, Guillaume Lamontagne, and Michel Bellemare, “Location management in IP-based future LEO satellite networks: A review”,

* *IEEE Communications Surveys and Tutorials* (submission: 18 Jan 2021 🡪 reject: 23 May 2021);
* *Proceedings of the IEEE* (submission: 10 Jun 2021 🡪 reject: 28 Nov 2021);
* *IEEE Open Journal of the Communications Society* (submission: 13 Feb 2022, 1st results: 04 Mar 2022, 1st revision: 15 May 2022 🡪 accept: 22 Jun 2022). [[arXiv](https://arxiv.org/abs/2101.08336)] [[ResearchGate](https://www.researchgate.net/publication/348675552)]

**[]** Wael Jaafar, Lina Bariah, Sami Muhaidat, and Halim Yanikomeroglu, “Time-switching and phase-shifting control for RIS-assisted SWIPT communications”,

* *IEEE Transactions on Vehicular Technology* (submission: 14 Feb 2021, 1st results: 01 Jun 2021, 1st revision: 01 Aug 2021 🡪 reject: 14 Sep 2021);
* *IEEE Wireless Communications Letters* (submission: 19 Jan 2022, 1st results: 20 Feb 2022, 1st revision: 02 May 2022 🡪 accept: 25 May 2022).

**[]** Olfa Ben Yahia, Eylem Erdogan, Gunes Karabulut Kurt, Ibrahim Altunbas, and Halim Yanikomeroglu, “Optical satellite eavesdropping”,

* *IEEE Transactions on Vehicular Technology* (submission: 03 Dec 2021, 1st results: 30 Jan 2022, 1st revision: 01 Apr 2022 🡪 accept: 10 May 2022). [[arXiv](https://arxiv.org/abs/2112.04932)] [[ResearchGate](https://www.researchgate.net/publication/356904298)]

**[]** Ferdi Kara, Hakan Kaya, and H. Yanikomeroglu, “Power-time channel diversity (PTCD): A novel resource efficient diversity technique”,

* *IEEE Wireless Communications Letters* (submission: 10 Feb 2022, 1st results: 17 Mar 2022, 1st revision: 05 Apr 2022 🡪 accept: 06 May 2022).

**[]** 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”,

* *IEEE Transactions on Wireless Communications* (submission: 31 May 2021, 1st results: 15 Sep 2021, 1st revision: 25 Nov 2021, 2nd results: 28 Mar 2022, 2nd revision: 27 Apr 2022 🡪 accept: 27 Apr 2022). [[arXiv](https://arxiv.org/abs/2106.14928)] [[ResearchGate](https://www.researchgate.net/publication/353063011)]

**[]** 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* (submission: 07 Jan 2022, 1st results: 13 Feb 2022, 1st revision: 03 Apr 2022 🡪 accept: 22 Apr 2022).

**[]** 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 Transactions on Information Theory* (submission: 31 Oct 2019 🡪 reject: 16 Mar 2020; resubmission: 08 Mar 2021 🡪 reject: 02 Aug 2021);
* *IEEE Open Journal of the Communications Society* (submission: 09 Sep 2021, 1st results: 04 Oct 2021, 1st revision: 10 Nov 2021 🡪 reject: 26 Dec 2021);
* *IEEE Access* (submission: 01 Jan 2022, 1st results: 19 Feb 2022, 1st revision: 19 Mar 2022 🡪 accept: 14 Apr 2022).. [[arXiv](https://arxiv.org/abs/1806.03958)] [[ResearchGate](https://www.researchgate.net/publication/333555032)]

**[]** Islam Abu Mahady, Ebrahim Bedeer, Salama Ikki, and Halim Yanikomeroglu, “Joint optimization of power allocation and circularity coefficients in full-duplex relaying NOMA systems with improper Gaussian signaling”,

* *IEEE Transactions on Communications* (submission: 08 Mar 2021 🡪 reject: 18 May 2021);
* *IEEE Transactions on Vehicular Technology* (submission: 27 Jun 2021 🡪 reject: 11 Aug 2021); “Joint optimization of power allocation and circularity coefficients in full-duplex NOMA relaying systems using improper Gaussian signaling”;
* *IEEE Systems Journal* (submission: 22 Aug 2021 🡪 reject: 19 Sep 2021); “Energy efficiency maximization of full-duplex NOMA systems with improper Gaussian signaling under imperfect self-interference cancellation”;
* *IEEE Communications Letters* (submission: 14 Oct 2021). (submission: 14 Oct 2021, 1st results: 18 Nov 2021, 1st revision: 01 Jan 2022, 2nd results: 03 Feb 2022, 2nd revision: 11 Feb 2022, 3rd result: 10 Mar 2022, 3rd revision: 25 Mar 2022, 4th results: 03 Apr 2022, 4th revision: 11 Apr 2022 🡪 accept: 13 Apr 2022).

**[]** Kursat Tekbiyik, Gunes Karabulut Kurt, Ali Riza Ekti, and Halim Yanikomeroglu, “Reconfigurable intelligent surfaces in action for non-terrestrial networks”,

* *IEEE Communications Magazine* (submission: 01 Dec 2020 🡪 reject: 24 Feb 2021);
* *IEEE Wireless Communications Magazine* (submission: 30 Mar 2021 🡪 reject: 04 Jun 2021);
* *IEEE Vehicular Technology Magazine* (submission: 22 Nov 2021, 1st results: 31 Jan 2022, 1st revision: 24 Feb 2022 🡪 accept: 12 Apr 2022) [[arXiv](https://arxiv.org/abs/2012.00968)] [[ResearchGate](https://www.researchgate.net/publication/346578227_Reconfigurable_Intelligent_Surfaces_in_Action_for_Non-Terrestrial_Networks)]

**[]** Elaheh Vaezpour, Layla Majzoobi, Mohammad Akbari, Saeedeh Parsaeefard, and Halim Yanikomeroglu, “A deep learning-based approach for cell outage compensation in NOMA networks”,

* *IEEE Access* (submission: 07 May 2021 🡪 reject: 26 May 2021; resubmission: 25 Jul 2021 🡪 reject: 07 Aug 2021);
* *IEEE Open Journal of Vehicular Technology* (submission: 09 Sep 2021, reject-and-resubmit: 04 Oct 2021, resubmit: 09 Mar 2022 🡪 accept: 30 Mar 2022).

**[]** Tasneem Darwish, Gunes Karabulut Kurt, Halim Yanikomeroglu, Michel Bellemare, and Guillaume Lamontagne, “LEO satellites in 5G and beyond networks: A review from a standardization perspective”,

* *IEEE Internet of Things Journal* (submission: 10 Oct 2021 🡪 editor-reject: 28 Oct 2021);
* *IEEE Communications Surveys and Tutorials* (submission: 05 Nov 2021 🡪 editor-reject: 06 Nov 2021);
* *IEEE Access* (submission: 10 Nov 2021, 1st results: 09 Dec 2021, 1st revision: 14 Jan 2022, 2nd results: 15 Feb 2022, 2nd revision: 24 Feb 2022 🡪 accept: 16 Mar 2022). [[arXiv](https://arxiv.org/abs/2110.08654)] [[ResearchGate](https://www.researchgate.net/publication/355391402)]

**[]** Yucel Aydin, Gunes Karabulut Kurt, Enver Ozdemir, and Halim Yanikomeroglu, “Authentication and handover challenges and methods for drone swarms”,

* *IEEE Journal of Radio Frequency Identification* (submission: 14 Jan 2022 🡪 accept: 02 Mar 2022). [[arXiv](https://arxiv.org/abs/2201.05657)] [[ResearchGate](https://www.researchgate.net/publication/357836252)]

**[]** Tuheen Ahmmed, Afsoon Alidadi, Zichao Zhang, Aizaz U. Chaudhry, and Halim Yanikomeroglu, “The digital divide in Canada and the role of LEO satellites in bridging the gap”,

* *IEEE Communications Magazine* (submission: 13 Sep 2021, 1st results: 07 Dec 2021, 1st revision: 19 Jan 2022 🡪 accept: 01 Mar 2022).

**[]** Aizaz U. Chaudhry and Halim Yanikomeroglu, “When to crossover from Earth to space for lower latency data communications?”,

* *IEEE Transactions on Aerospace and Electronic Systems* (submission: 13 Aug 2021, 1st results: 22 Oct 2021, 1st revision: 29 Nov 2021, 2nd results: 27 Jan 2022, 2nd revision: 21 Feb 2022 🡪 accept: 24 Feb 2022).

**[]** Olfa Ben Yahia, Eylem Erdogan, Gunes Karabulut Kurt, Ibrahim Altunbas, and Halim Yanikomeroglu, “HAPS selection for hybrid RF/FSO satellite networks”,

* *IEEE Transactions on Aerospace and Electronic Systems* (submission: 02 Jul 2021, 1st results: 04 Oct 2021, 1st revision: 17 Nov 2021 🡪 accept: 01 Jan 2022). [[arXiv](https://arxiv.org/abs/2107.12638)] [[ResearchGate](https://www.researchgate.net/publication/353510591)]

**[]** Eylem Erdogan, Ibrahim Altunbas, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Cooperation in space: HAPS-aided optical inter-satellite connectivity with opportunistic scheduling”,

* *IEEE Communications Letters* (submission: 19 Jul 2021, 1st results: 17 Aug 2021, 1st revision: 30 Oct 2021, 2nd results: 24 Nov 2021, 2nd revision: 14 Dec 2021 🡪 accept: 31 Dec 2021). [[arXiv](https://arxiv.org/abs/2112.14212)]

**[]** 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”,

* *IEEE Communications Letters* (submission: 21 Oct 2020 🡪 reject: 12 Nov 2020);
* *IEEE Wireless Communications Letters* (submission: 09 Mar 2021 🡪 editor-reject: 09 Mar 2021; resubmission: 12 Mar 2021, 1st results: 08 Apr 2021, missed resubmission deadline; resubmission: 11 Sep 2021, 1st results: 07 Sep 2021, 1st revision: 03 Dec 2021, 2nd results: 22 Dec 2021, 2nd revision: 25 Dec 2021 🡪 accept: 26 Dec 2021).

**[]** 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* (submission: 15 Jul 2021, 1st results: 12 Oct 2021, 1st revision: 14 Nov 2021 🡪 accept: 16 Dec 2021). [[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)]

**[]** 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”,

* *IEEE Wireless Communications Letters* (submission: 17 Jun 2021, 1st results: 10 Aug 2021, 1st revision: 08 Oct 2021 🡪 accept: 10 Dec 2021). [[arXiv](https://arxiv.org/abs/2106.15858)] [[ResearchGate](https://www.researchgate.net/publication/352901326)]

**[]** Mohammad Hossein Bahonar, Mohammad Javad Omidi, and Halim Yanikomeroglu, “Spectral efficient resource allocation for dense D2D communications”,

* *IEEE Transactions on Vehicular Technology* (submission: 05 Oct 2020 🡪 reject: 18 Nov 2020).
* “Spectral efficient resource allocation for ultra-dense D2D communications in beyond 5G networks”, *IEEE Transactions on Vehicular Technology* (resubmission: 16 Mar 2021 🡪 reject: 02 Jun 2021).
* “Spectral efficient resource allocation for dense D2D communications underlaying networks”; *IEEE Access* (submission: 19 Jun 2021, 1st results: 01 Jul 2021, 1st revision: 14 Jul 2021 🡪 reject: 07 Aug 2021).
* “Low-complexity resource allocation for dense cellular vehicle-to-everything (C-V2X) communications”, *IEEE Open Journal of the Communications Society* (submission: 14 Aug 2021, 1st results: 07 Sep 2021, 1st revision: 04 Nov 2021, 2nd results: 25 Nov 2021, 2nd revision: 09 Dec 2021 🡪 accept: 09 Dec 2021).

**[]** Mohsen Tajallifar, Ahmad R. Sharafat, and Halim Yanikomeroglu, “Near-optimal QoS-aware hybrid beamforming in mmWave massive MIMO systems”,

* *IEEE Transactions on Wireless Communications* (submission: 27 Jul 2020 🡪 reject: 01 Oct 2020);
* “QoS-aware hybrid beamforming in mmWave massive MIMO systems” (resubmission: 25 Dec 2020 🡪 reject: 30 Mar 2021);
* “QoS-aware hybrid beamforming with minimal power in mmWave massive MIMO systems”;
* *IEEE Access* (submission: 19 Aug 2021, 1st results: 17 Sep 2021, 1st revision: 04 Nov 2021 🡪 accept: 29 Nov 2021).

**[]** Nizar Masmoudi, Wael Jaafar, Safa Cherif, Jihene Ben Abderrazak, and Halim Yanikomeroglu, “UAV-based crowd surveillance in post COVID-19 era”,

* *IEEE Access* (submission: 09 Oct 2021 🡪 accept: 25 Nov 2021).

**[]** Eylem Erdogan, Ibrahim Altunbas, and Gunes Karabulut Kurt, “On the secrecy comparison of RF and FSO eavesdropping attacks in mixed RF-FSO relay networks”,

* *IEEE Transactions on Vehicular Technology* (reject);
* *IEEE Sensors Journal* (reject).
* Eylem Erdogan, Ibrahim Altunbas, Gunes Karabulut Kurt, and Halim Yanikomeroglu, *IEEE Photonics Journal* (submission: 17 Sep 2021, 1st results: 09 Oct 2021, 1st revision: 27 Oct 2021 🡪 accept: 09 Nov 2021).

**[]** Ahmed Ibrahim, Ebrahim Bedeer, and Halim Yanikomeroglu, “A novel low complexity faster-than-Nyquist (FTN) signaling detector for ultra high-order QAM”,

* *IEEE Transactions on Communications* (submission: 23 Feb 2021 🡪 reject: 10 May 2021);
* *IEEE Transactions on Vehicular Technology* (submission: 24 Jun 2021 🡪 reject (out of scope):
* 27 Jun 2021); *IEEE Transactions on Green Communications and Networking* (submission: 01 Jul 2021 🡪 reject (out of scope): 16 Jul 2021);
* *IEEE Open Journal of the Communications Society* (submission: 16 Jul 2021, 1st results: 12 Aug 2021, 1st revision: 25 Aug 2021 🡪 reject: 11 Sep 2021, appeal: 03 Oct 2021, 3rd results: 20 Oct 2021, 3rd revision: 02 Nov 2021 🡪 accept: 04 Nov 2021). [[arXiv](https://arxiv.org/abs/2107.00805)] [[ResearchGate](https://www.researchgate.net/publication/350055275)]

**[]** Pouya M. Ghari, Maryam Sabbaghian, and Halim Yanikomeroglu, “Moving aerial anchors assisted network localization”,

* *IEEE Transactions on Wireless Communications* (submission: 03 Jun 2019 🡪 reject: 22 Aug 2019;
* resubmission: 31 Dec 2020, 1st results: 11 Apr 2021, 1st revision: 20 May 2021, 2nd results: 29 Jul 2021, 2nd revision: 31 Aug 2021 🡪 accept: 25 Oct 2021).

**[]** 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”,

* *IEEE Internet of Things Journal* (submission: 04 May 2021, 1st results: 15 Jul 2021, 1st revision: 13 Aug 2021, conditional accept: 04 Sep 2021 🡪 accept: 02 Oct 2021).

**[]** Kursat Tekbiyik, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Energy-efficient RIS-assisted satellites for IoT networks”,

* *IEEE Internet of Things Journal* (submission: 15 Jan 2021, 1st results: 30 Apr 2021, 1st revision: 21 May 2021 🡪 accept: 10 Sep 2021). [[arXiv](https://arxiv.org/abs/2101.07166)] [[ResearchGate](https://www.researchgate.net/publication/348590114_Energy-Efficient_RIS-assisted_Satellites_for_IoT_Networks)]

**[]** Michel Kulhandjian, Gunes Karabulut Kurt, Hovannes Kulhandjian, Halim Yanikomeroglu, and Claude D’Amours, “NOMA computation over multi-access channels for multimodal sensing”,

* *IEEE Wireless Communications Letters* (submission: 26 Mar 2021, 1st results: 14 Jun 2021, 1st revision: 16 Jul 2021 🡪 accept: 19 Aug 2021).

**[]** Safwan Alfattani, Wael Jaafar, Yassine Hmamouche, Halim Yanikomeroglu, and Abbas Yongacoglu, “Link budget analysis for reconfigurable smart surfaces in aerial platforms”, *IEEE Open Journal of the Communications Society* (submission: 21 Mar 2021, 1st results: 26 Apr 2021, 1st revision: 24 Jun 2021, 2nd results: 22 Jul 2021, 2nd revision: 05 Aug 2021 🡪 accept: 13 Aug 2021). [[arXiv](https://arxiv.org/abs/2008.12334)] [[ResearchGate](https://www.researchgate.net/publication/350527782)]

**[]** Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “A lightweight machine learning assisted power optimization for minimum error in NOMA-CRS over Nakagami-m channels”, *IEEE Transactions on Vehicular Technology* (submission: 20 Feb 2021, 1st results: 12 Apr 2021, 1st revision: 12 Jun 2021 🡪 accept: 11 Aug 2021).

**[]** 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, 2nd revision: 16 Jul 2021 🡪 accept: 08 Aug 2021).

**[]** Hichem Semira, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “Multi-user joint maximum-likelihood detection in uplink IoT NOMA networks: Removing the error floor”, *IEEE Wireless Communications Letters* (submission: 25 Apr 2021, 1st results: 28 May 2021, 1st revision: 17 Jul 2021 🡪 accept: 06 Aug 2021).

**[]** Tasneem Darwish, Gunes Karabulut Kurt, Halim Yanikomeroglu, Gamini Senarath, and Peiying Zhu, “An intelligent vertical HetNet (I-VHetNet) architecture: A vision of self-evolving networks”, *IEEE Wireless Communications Magazine* (submission: 20 Apr 2020 🡪 reject: 04 Jun 2020). “A vision of self-evolving network management for future intelligent vertical HetNet”, *IEEE Wireless Communications Magazine* (submission: 04 Sep 2020, 1st results: 22 Jan 2021, 1st revision: 08 Mar 2021 🡪 accept: 05 Jul 2021).

**[]** Nesrine Cherif, Wael Jaafar, Halim Yanikomeroglu, and Abbas Yongacoglu, “3D Aerial highways: The key enabler of the retail industry transformation”, under review in *IEEE Communications Magazine* (submission: 20 Sep 2020 🡪 reject: 17 Nov 2020; resubmission: 21 Jan 2021, 1st results: 13 Mar 2021, 1st revision: 21 Apr 2021, 2nd results: 12 Jun 2021, 2nd revision: 17 Jun 2021 🡪 accept: 22 Jun 2021). [[arXiv](https://arxiv.org/abs/2009.09477)] [[ResearchGate](https://www.researchgate.net/publication/344329605)]

**[]** Rawan Alkurd, Ibrahim Abualhaol, and Halim Yanikomeroglu, “Preserving user privacy in personalized networks”, *IEEE Wireless Communications Letters* (submission: 10 Jul 2020 🡪 reject: 21 Sep 2020); *IEEE Transactions on Vehicular Technology* (submission: 27 Sep 2020 🡪 reject: 22 Dec 2020); *IEEE Networking Letters* (submission: 31 Dec 2020, 1st results: 09 Apr 2021, 1st revision: 24 Apr 2021 🡪 accept: 19 Jun 2021).

**[]** 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* (submission: 24 Jan 2021, 1st results: 17 Feb 2021, 1st revision: 03 May 2021, 2nd results: 21 May 2021, 2nd revision: 11 May 2021 🡪 accept: 11 May 2021).

**[]** Caner Goztepe, Saliha Büyükçorak, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Localization threats in next generation wireless networks”, *IEEE Communications Magazine* (submission: 19 May 2020 🡪 reject: 16 Aug 2020; resubmission: 08 Dec 2020, 1st results: 09 Feb 2021, 1st revision: 24 Mar 2021, 2nd results: 11 May 2021, 2nd revision: 31 May 2021 🡪 accept: 02 Jun 2021).

**[]** 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* (submission: 13 Sep 2020 🡪 reject: 05 Dec 2020; resubmission: 08 Feb 2021, 1st results: 05 Apr 2021, 1st revision: 30 Apr 2021 🡪 accept: 24 May 2021).

**[]** Gunes Karabulut Kurt and Halim Yanikomeroglu, “Communication, computing, caching, and sensing for next generation aerial delivery networks”, *IEEE Vehicular Technology Magazine* (submission: 25 Nov 2020, 1st results: 24 Feb 2021, 1st revision: 16 Apr 2021 🡪 accept: 20 May 2021). [[arXiv](https://arxiv.org/abs/2011.13224)] [[ResearchGate](https://www.researchgate.net/publication/346475467)]

**[]** 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* (submission: 07 Oct 2020, 1st results: 30 Nov 2020, 1st revision: 28 Feb 2021, 2nd results: 17 Apr 2021, 2nd revision: 01 May 2021 🡪 accept: 15 May 2021).

**[]** Zhaleh Sadreddini and Halim Yanikomeroglu, “A novel centralized cloud-based mobile data rollover management”, *IEEE Wireless Communications Magazine* (submission: 07 Apr 2020 🡪 reject: 01 May 2020; resubmission: 19 Jun 2020, 1st results: 26 Oct 2020, 1st revision: 16 Nov 2020, 2nd results: 29 Dec 2020, 2nd revision: 15 Jan 2021 🡪 accept: 30 Jan 2021).

**[]** Ahmet Burak Ozyurt, Mehmet Basaran, Mine Ardanuc, Lutfiye Durak-Ata, and Halim Yanikomeroglu, “Intra-cell frequency band exiling for green wireless networks”, *IEEE Wireless Communications Magazine* (submission: 15 Jan 2020 🡪 reject: 28 Apr 2020); *IEEE Vehicular Technology Magazine* (submission: 20 Jul 2020 🡪 editor-reject: 29 Jul 2020; resubmission: 18 Aug 2020, 1st results: 26 Oct 2020, 1st revision: 19 Dec 2020 🡪 accept: 28 Jan 2021). (Tried at least once before me as well; 4th try)

**[]** Mehmet Cagri Ilter and Halim Yanikomeroglu, “Optimized and SNR-adaptive constellations for convolutional codes in low-latency communications”, *IEEE Communications Letters* (submission: 17 Dec 2017 🡪 reject: 16 Jan 2018).

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* (submission: 20 Aug 2020, 1st results: 15 Sep 2020, 1st revision: 11 Dec 2020, 2nd results: 05 Jan 2020, 2nd revision: 26 Jan 2021 🡪 accept: 27 Jan 2021).

**[]** Fatima Ezzahra Airod, Houda Chafnaji, and Halim Yanikomeroglu, “HARQ in full-duplex relay-assisted transmissions for URLLC”, *IEEE Transactions on Wireless Communications* (submission: 23 Jan 2020, 1st results: 03 May 2020, 1st revision: 10 Jun 2020 🡪 reject: 15 Aug 2020). *Open Journal of the Communications Society* (submission: 17 Sep 2020, 1st results: 15 Oct 2020, 1st revision: 10 Dec 2020, 2nd results: 30 Dec 2020, 2nd revision: 08 Jan 2021 🡪 accept: 23 Jan 2021).

**[]** Wael Jaafar and Halim Yanikomeroglu, “Dynamics of quadrotor UAVs for aerial networks: An energy perspective”, *IEEE Wireless Communications Letters* (submission: 14 May 2019 🡪 reject: 05 Nov 2019); *IEEE Transactions on Vehicular Technology* (submission: 24 Nov 2019, 1st results: 19 Jan 2020, 1st revision: 16 Mar 2020 🡪 reject: 12 May 2020).“Dynamics of laser-charged UAVs: A battery perspective”, *Internet of Things Journal* (submission: 05 Jun 20201st results: 15 Oct 2020, 1st revision: 09 Nov 2020 🡪 accept: 23 Dec 2020).

**[]** 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 Vehicular Technology Magazine* (submission: 16 Feb 2020 🡪 reject: 21 Jun 2020); *IEEE Open Journal of Vehicular Technology* (submission: 14 Jul 2020, 1st results: 23 Aug 2020 🡪 accept: 11 Dec 2020).

**[]** Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “Faded-experience trust region policy optimization for model-free power allocation in interference channel”, *IEEE Wireless Communications Letters* (submission: 04 Aug 2020🡪 reject: 25 Aug 2020; resubmission: 21 Oct 2020 🡪 accept: 08 Dec 2020).

**[]** Wael Jaafar, Shimaa Naser, Sami Muhaidat, Paschalis C. Sofotasios, and Halim Yanikomeroglu, “On the downlink performance of RSMA-based UAV networks”, *IEEE Wireless Communications Letters* (submission: 22 Jan 2020, 1st results: 12 Mar 2020, 1st revision: 03 May 2020 🡪 reject: 24 May 2020). *IEEE Transactions on Vehicular Technology* (submission: 25 May 2020, 1st results: 12 Jul 2020, 1st revision: 11 Sep 2020 🡪 accept: 08 Nov 2020).

**[]** Wael Jaafar, Shimaa Naser, Sami Muhaidat, Paschalis C. Sofotasios, and Halim Yanikomeroglu, “Multiple access in aerial networks: From orthogonal and non-orthogonal to rate-splitting”, *IEEE Access* (submission: 18 Jan 2020, 1st results: 08 Feb 2020, 1st revision: 02 Mar 2020 🡪 reject: 16 Mar 2020). *Open Journal of Vehicular Technology* (submission: 25 May 2020 🡪 reject: 12 Jul 2020; resubmission: 10 Aug 2020, 1st results: 23 Aug 2020, 1st revision: 13 Oct 2020 🡪 accept: 18 Oct 2020).

**[]** 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 Communications* (submission: 22 Oct 2019 🡪 reject: 31 Jan 2020). *IEEE Transactions on Wireless Communications* (submission: 21 Mar 2020, 1st results: 02 Jun 2020, 1st revision: 06 Jul 2020, 2nd results: 24 Aug 2020, 2nd revision: 10 Sep 2020 🡪 accept: 17 Oct 2020).

**[]** Talal Edwan, Ashraf Tahat, Halim Yanikomeroglu, and Jon Crowcroft, “An analysis of a Stochastic ON-OFF queuing mobility model for software-defined vehicle networks”, *IEEE TVT*: 03 Feb 2019, first results: 04 Feb 2019 (editor reject due to length); *IEEE TVT*: 16 Feb 2019, first results: 13 Jun 2019 (reject, cannot be resubmitted); *IEEE Transactions on Mobile Computing* (submission: 14 Jul 2019, 1st results: 01 Nov 2019, 1st revision: 20 Feb 2020, 2nd results: 20 May 2020, 2nd revision: 17 Aug 2020 🡪 accept: 05 Oct 2020).

**[]** Cihan Tugrul Cicek, Hakan Gultekin, Bulent Tavli, and Halim Yanikomeroglu, “Backhaul-aware placement of a UAV base station with bandwidth allocation for user-centric operation and revenue maximization”, *IEEE Transactions on Wireless Communications* (submission: 19 Mar 2019 🡪 reject: 20 May 2019); *IEEE Access* (submission: 20 Jan 2020, 1st results: 19 Feb 2020, 1st revision: 09 Jul 2020 🡪 accept: 19 Aug 2020).

**[]** Mohammad R. Abedi, Mohammad R. Javan, Nader Mokari, and Halim Yanikomeroglu, “3D-MIMO dual communications in SCMA-based secure HetNets”, *IEEE Transactions on Vehicular Technology* (submission: 25 May 2019 🡪 reject: 17 Sep 2019; resubmission: 01 Dec 2019, 1st results: 19 Jan 2020, 1st revision: 14 Mar 2020, 2nd results (accept with minor revision): 31 Mar 2020, 2nd revision: 26 Apr 2020 🡪 accept: 03 May 2020).

**[]** Lina Bariah, Sami Muhaidat, Paschalis Sofotasios, Sanjeev Gurugopinath, Walaa Hamouda, and Halim Yanikomeroglu, “Non-orthogonal multiple access in presence of additive generalized Gaussian noise”, *IEEE Communications Letters* (submission: 12 Jan 2020, 1st results: 12 Feb 2020, 1st revision: 27 Feb 2020, 2nd results: 23 Mar 2020, 2nd revision: 13 Apr 2020 🡪 accept: 05 May 2020).

**[]** Elham Kalantari, Halim Yanikomeroglu, and Abbas Yongacoglu, “Wireless networks with cache-enabled and backhaul-limited aerial base stations”, *IEEE Transactions on Wireless Communications* (submission: 01 Nov 2019, 1st results: 18 Jan 2020, 1st revision: 13 Mar 2020, 2nd results: 24 Apr 2020, 2nd revision: 26 May 2020 🡪 accept: 07 Jul 2020).

[] Yucel Aydin, Enver Ozdemir, Gunes Kurt, and Halim Yanikomeroglu, “A flexible and lightweight group authentication scheme”, *IEEE Internet of Things Journal* (submission: 12 Sep 2019 🡪 reject: 02 Nov 2019; resubmit: 15 Jan 2020, 1st results: 12 Mar 2020, 1st revision: 28 Mar 2020, 2nd results: 22 Apr 2020, 2nd revision: 30 Apr 2020 🡪 accept: 16 Jun 2020).

**[]** Safwan Alfattani, Wael Jaafar, Yassine Hmamouche, Halim Yanikomeroglu, Abbas Yongacoglu, Ngoc Dung Dao, and Peiying Zhu, “Aerial platforms with reconfigurable smart surfaces for 5G and beyond”, *IEEE Communications Magazine* (submission: 26 May 2020, 1st results: 15 Jul 2020, 1st revision: 28 Aug 2020, 2nd results: 16 Oct 2020, 2nd revision: 20 Oct 2020 🡪 accept: 23 Oct 2020). [[arXiv](https://arxiv.org/abs/2006.09328)] [[ResearchGate](https://www.researchgate.net/publication/342134547)]

**[]** Md Sahabul Alam, Gunes Karabulut Kurt, Halim Yanikomeroglu, Peiying Zhu, and Ngoc-Dung Dao, “High altitude platform station based super macro base station (HAPS-SMBS) constellations”, *IEEE Communications Magazine* (submission: 07 Jul 2020, 1st results: 10 Aug 2020, 1st revision: 15 Sep 2020, 2nd results: 20 Oct 2020 🡪 accept: 27 Oct 2020). [[arXiv](https://arxiv.org/abs/2007.08747)] [[ResearchGate](https://www.researchgate.net/publication/343063090)]

**[]** 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* (submission: 27 Apr 2020, 1st results: 30 Jun 2020, 1st revision: 13 Aug 2020, 2nd results: 03 Oct 2020, 2nd revision: 11 Oct 2020 🡪 accept: 28 Oct 2020). [[arXiv](https://arxiv.org/abs/2004.13363)] [[ResearchGate](https://www.researchgate.net/publication/340952876)]

**[]** Mohammad Khoshkholgh and Halim Yanikomeroglu, “Learning power control from a fixed batch of data”, *IEEE Wireless Communications Letters* (submission: 20 Jul 2020 🡪 reject: 17 Aug 2020; resubmission: 07 Oct 2020 🡪 accept: 01 Nov 2020).

**[]** 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* (submission: 12 Sep 2020, 1st results: 24 Oct 2020, 1st revision: 09 Nov 2020, accept: 16 Nov 2020).

**[]** Maedeh Hojjati, Alireza Shafieinejad, and Halim Yanikomeroglu, “A blockchain-based authentication and key agreement (AKA) protocol for 5G networks”, *IEEE Access* (submission: 14 Oct 2020, accept: 20 Nov 2020).

**[]** Medhat Elsayed, Melike Erol-Kantarci, and Halim Yanikomeroglu, “Transfer reinforcement learning for 5G-NR mm-wave networks”, *IEEE Transactions on Wireless Communications* (submission: 21 May 2020, 1st results: 10 Aug 2020, 1st revision: 10 Sep 2020, accept: 01 Dec 2020).

**[]** 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* (submission: 26 Sep 2020, 1st results: 20 Oct 2020, 1st revision: 29 Jan 2021, accept: 10 Feb 2021). [[arXiv](https://arxiv.org/abs/2010.02176)] [[ResearchGate](https://www.researchgate.net/publication/344486354)]

**[]** Ahmet Emir, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “Multi-user detection for uplink grant-free NOMA IoT networks via deep learning”, *IEEE Wireless Communications Letters* (submission: 16 Dec 2020, 1st results: 03 Jan 2021, 1st revision: 01 Feb 2021, accept: 15 Feb 2021).

**[]** 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* (submission: 11 Nov 2019, 1st results: 07 Feb 2020, 1st revision: 26 Apr 2020, 2nd results: 24 Jul 2020, 2nd revision: 03 Sep 2020, 3rd results: 01 Oct 2020, 3rd revision: 07 Dec 2020, 4th results: 11 Jan 2021, 4th revision: 24 Jan 2021, accept: 15 Feb 2021).

**[]** Yassine Hmamouche, Mustapha Benjillali, Samir Saoudi, Halim Yanikomeroglu, and Marco Di Renzo, “A novel survey of Stochastic geometry in wireless networks: Underlying theory, recent applications, and future horizons”, *IEEE Communications Surveys and Tutorials* (submission: 09 Nov 2019, 1st results: 20 Jan 2020, 1st revision: 10 Mar 2020 🡪 reject: 22 Apr 2020). *The Proceedings of the IEEE* (submission: 03 May 2020, 1st results: 09 Nov 2020, 1st revision: 16 Dec 2020, 2nd results: 25 Jan 2021, 2nd revision: 08 Feb 2021, accept: 17 Feb 2021).

**[]** Atefeh Rezaei, Paeiz Azmi, Nader Mokari, Mohammad Reza Javan, and Halim Yanikomeroglu, “Robust resource allocation for cooperative MISO-NOMA-based heterogeneous networks”, *IEEE Transactions on Communications* (submission: 18 May 2020 🡪 reject: 26 Jul 2020; resubmission: 16 Oct 2020, 1st results: 26 Dec 2020, 1st revision: 08 Jan 2021, accept: 21 Feb 2021).

**[]** Gunes 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* (submission: 23 Jul 2020, 1st results: 22 Oct 2020, 1st revision: 19 Jan 2021, accept: 21 Feb 2021). [[arXiv](https://arxiv.org/abs/2007.15088)] [[ResearchGate](https://www.researchgate.net/publication/343333840)]

**[]** Aizaz U. Chaudhry and Halim Yanikomeroglu, “Laser inter-satellite links in a Starlink constellation”, *IEEE Vehicular Technology Magazine* (submission: 03 Nov 2020, 1st results: 10 Jan 2021, 1st revision: 23 Jan 2021, accept: 26 Feb 2021).

**[]** 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* (submission: 28 Nov 2020, 1st results: 21 Dec 2020, 1st revision: 09 Feb 2021, accept: 28 Feb 2021).

**[]** Zhaleh Sadreddini, Ilknur Donmez, and Halim Yanikomeroglu, “Cancel-for-any-reason insurance recommendation using customer transaction-based SOM segmentation”, *IEEE Access* (submission: 10 Nov 2020, 1st results: 24 Nov 2020, 1st revision: 07 Dec 2020 🡪 reject: 18 Jan 2021); “Cancel-for-any-reason insurance recommendation using customer transaction-based clustering” (resubmission: 01 Feb 2021, 1st results: 09 Feb 2021, discussion with EiC, accept: 04 Mar 2021).

**[]** 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* (submission: 21 Oct 2020, 1st results: 17 Dec 2020, 1st revision: 16 Jan 2021, accept: 15 Mar 2021).

**[]** Yucel Aydin, Gunes Karabulut Kurt, Enver Ozdemir, and Halim Yanikomeroglu, “Group handover for drone-mounted base stations”, *IEEE Internet of Things Journal* (submission: 16 Dec 2020, 1st results: 09 Feb 2021, 1st revision: 04 Mar 2021, accept: 16 Mar 2021). [[arXiv](https://arxiv.org/abs/2012.09221)]

**[]** Amir Mehrabian, Maryam Sabbaghian, and Halim Yanikomeroglu, “Deep spectrum sensing with convolutional neural networks in symmetric α-stable noise model”, *IEEE Transactions on Communications* (submission: 09 Jul 2020 🡪 reject: 11 Sep 2020). “Spectrum Sensing for Symmetric α-Stable Noise Model with Convolutional Neural Networks”, *IEEE Transactions on Communications* (resubmission: 11 Oct 2020, 1st results: 18 Dec 2020, 1st revision: 06 Feb 2021, accept: 24 Mar 2021).

**[]** 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* (submission: 27 Nov 2020, 1st results: 24 Dec 2020, 1st revision: 09 Mar 2021, accept: 02 April 2021). [[ResearchGate](https://www.researchgate.net/publication/350055203)]

**[]** Ahmet Emir, Ferdi Kara, Hakan Kaya, and Halim Yanikomeroglu, “Deep learning empowered semi-blind joint detection in cooperative NOMA”, *IEEE Access* (submission: 27 Jan 2021, 1st results: 27 Feb 2021, 1st revision: 27 Mar 2021, accept: 14 Apr 2021).

**[]** Zhitong Xing, Kaiming Liu, Yuanan Liu, Aditya S. Rajasekaran, and Halim Yanikomeroglu, “A hybrid companding and clipping scheme for PAPR reduction in OFDM systems”, *IEEE Transactions on Vehicular Technology* (submission: 18 Mar 2020 🡪 reject: 23 Apr 2020); *IEEE Transactions on Communications* (submission: 18 Aug 2020 🡪 reject: 23 Oct 2020); “A hybrid companding and clipping scheme for PAPR reduction in OFDM systems and its application in massive MIMO-OFDM systems”, *IEEE Access* (submission: 22 Dec 2020, 1st results: 12 Jan 2021, 1st revision: 24 Jan 2021, 2nd results: 01 Mar 2021, 2nd revision: 08 Mar 2021, 3rd results: 23 Mar 2021, 3rd revision: 25 Mar 2021, accept: 15 Apr 2021).

**[]** Ozan Alp Topal, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Securing the inter-spacecraft links: Doppler frequency shift based physical layer key generation”, *IEEE Journal of Radio Frequency Identification* (submission: 15 Jan 2021, 1st results: 03 Feb 2021, 1st revision: 22 Feb 2021, 2nd results: 15 Mar 2021, 2nd revision: 22 Mar 2021, accept: 19 Apr 2021). [[arXiv](https://arxiv.org/abs/2008.13396)]

**[]** Rawan Alkurd, Ibrahim Abualhaol, and Halim Yanikomeroglu, “User satisfaction prediction framework for personalized wireless networks: A DNN approach”, *IEEE ICC 2020*, *IEEE Globecom 2020, IEEE ICC 2021*, *IEEE ICC Workshops 2021*.

**[]** Musa Otaru, Abdulkareem Adinoyi, Mohammed Ajiya, Mohammed Aljlayl, and Halim Yanikomeroglu, “Modified ARQ-based cooperative relaying scheme for a delay tolerant network”, *IEEE WCNC 2021*, *IEEE ICC Workshops 2021*, *ICECCME 2021*.

**[]** Nadir Adam, Cristiano Tapparello, Wendi Heinzelman, and Halim Yanikomeroglu, “Utilizing ground nodes with multi-hop capabilities to extend the range of UAV-BSs”, *IEEE WCNC 2021*, *IEEE ICC Workshops 2021*, *PIMRC 2021*, *IEEE 5G World Forum 2021*.

**[]** Omid Abbasi and Halim Yanikomeroglu, “A cell-free scheme for UAV base stations with HAPS-assisted backhauling in THz band”, *IEEE Globecom 2021*, *IEEE ICC 2022*.

**[]** Jintao Liang, Aizaz U. Chaudhry, Eylem Erdogan, and Halim Yanikomeroglu, “Link budget analysis for optical links in free-space optical satellite networks”, *IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, 14–17 June 2022, Belfast, Northern Ireland, UK; *WoWMoM Workshops*.