



## IEEE Journal Papers (under review)

(3,900 citations)

<http://www.sce.carleton.ca/faculty/yanikomeroglu/cv/publications.pdf>

T. Ovatman, G. Karabulut Kurt, H. Yanikomeroglu, “**An accurate model for computation offloading and a HAPS-based case study**”, under review in *IEEE Transactions on Network and Service Management*.

K. Tekbiyik, G. Karabulut Kurt, A.R. Ekti, H. Yanikomeroglu, “**Graph attention networks for channel estimation in RIS-assisted satellite IoT communications**”, under review in *IEEE Transactions on Green Communications and Networking*. (02)

T. Ahmmed, A. Alidadi, Z. Zhang, A.U. Chaudhry, H. Yanikomeroglu, “**The digital divide in Canada and the role of LEO satellites in bridging the gap**”, under review in *IEEE Communications Magazine*.

A.U. Chaudhry, H. Yanikomeroglu, “**When to crossover from Earth to space for lower latency data communications?**”, under review in *IEEE Transactions on Aerospace and Electronic Systems*.

E. Erdogan, I. Altunbas, G. Karabulut Kurt, H. Yanikomeroglu, “**HAPS-aided optical inter-satellite connectivity with opportunistic scheduling**”, under review in *IEEE Communications Letters*.

O. Abbasi, H. Yanikomeroglu, “**Transmission scheme, detection and power allocation for uplink user cooperation with NOMA and RSMA**”, under review in *IEEE Transactions on Wireless Communications*.

O. Ben Yahia, E. Erdogan, G. Karabulut Kurt, I. Altunbas, H. Yanikomeroglu, “**HAPS selection for hybrid RF/FSO satellite networks**”, under review in *IEEE Transactions on Aerospace and Electronic Systems*. (01)



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A.M. Demirtas, M.S. Seyfioglu, I. Bor-Yaliniz, B. Tavli, H. Yanikomeroglu, “**Autonomous UAV base stations for next generation wireless networks: A deep learning approach**”, under review in *IEEE Network Magazine*.

J.-D. Medjo Me Biomo, H. Yanikomeroglu, G. Karabulut Kurt, “**Routing in satellite networks: A comparison between monolithic and polythitic constellations**”, under review in *IEEE Access*.

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T. Darwish, G. Karabulut Kurt, H. Yanikomeroglu, G. Lamontagne, M. Bellemare, “**Location management in IP-based future LEO satellite networks: A review**”, under review in *Proceedings of the IEEE*. (02)

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Q. Ren, O. Abbasi, G. Karabulut Kurt, H. Yanikomeroglu, J Chen, “**Caching and computation offloading in high altitude platform station (HAPS) assisted intelligent transportation systems**”, under review in *IEEE Transactions on Wireless Communications*.

P.M. Ghari, M. Sabbaghian, H. Yanikomeroglu, “**Moving aerial anchors assisted network localization**”, under review in *IEEE Transactions on Wireless Communications*.



## IEEE Journal Papers (accepted / to appear)

K. Tekbiyik, G. Karabulut Kurt, H. Yanikomeroglu, “**Energy-efficient RIS-assisted satellites for IoT networks**”, to appear in *IEEE Internet of Things Journal*. (02)

A. Hajijamali Arani, M.M. Azari, P. Hu, Y. Zhu, H. Yanikomeroglu, S. Safavi-Naeini, “**Green sky: Reinforcement learning for energy-efficient trajectory design of UAVs**”, to appear in *IEEE Internet of Things Journal*.

O. Ghdiri, W. Jaafar, S. Alfattani, J. Ben Abderrazak, H. Yanikomeroglu, “**Offline and online UAV-enabled data collection in time-constrained IoT networks**”, to appear in *IEEE Transactions on Green Communications and Networking*.

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A.U. Chaudhry, H. Yanikomeroglu, “**Free space optics for next-generation satellite networks**”, to appear in *IEEE Consumer Electronics Magazine*. (10)



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N. Cherif, M. Alzenad, H. Yanikomeroglu, A. Yongacoglu, “**Downlink coverage and rate analysis of an aerial user in vertical heterogeneous networks (VHetNets)**”, *IEEE Transactions on Wireless Communications*, Mar 2021 (16)

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N. Cherif, W. Jaafar, H. Yanikomeroglu, A. Yongacoglu, “**Disconnectivity-aware energy-efficient cargo-UAV trajectory planning with minimum handoffs**”, *IEEE ICC 2021*.

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