



## IEEE Magazine Papers – under review

(4,313 citations)

[M29] W. Jaafar, H. Yanikomeroglu, “**HAPS-ITS: Enabling future ITS services in trans-continental highways**”, under review in *IEEE Communications Magazine*.

[M28] K. Tekbiyik, G. Karabulut Kurt, A.R. Ekti, H. Yanikomeroglu, “**Reconfigurable intelligent surfaces in action for non-terrestrial networks**”, *IEEE Wireless Communications Magazine*. (02)

[M27] S. Gecgel, C. Goztepe, G. Karabulut Kurt, H. Yanikomeroglu, “**Learning-driven decision mechanisms in physical layer: Facts, challenges, and remedies**” under review in *IEEE Vehicular Technology Magazine*.

[M26] N. Cherif, W. Jaafar, H. Yanikomeroglu, A. Yongacoglu, “**3D Aerial highways: The key enabler of the retail industry transformation**”, under review in *IEEE Communications Magazine*. (04)

[M25] C. Goztepe, S. Büyükçorak, G. Karabulut Kurt, H. Yanikomeroglu, “**Localization threats in next-generation wireless networks**”, under review in *IEEE Communications Magazine*.

[M24] T. Darwish, G. Karabulut Kurt, H. Yanikomeroglu, G. Senarath, P. Zhu, “**A vision of self-evolving network management for future intelligent vertical HetNet**”, under review in *IEEE Wireless Communications Magazine*. (04)



## IEEE Magazine Papers – 2021

**[M23]** G. Karabulut Kurt, H. Yanikomeroglu, “**Communication, computing, caching and sensing for next generation aerial delivery networks**”, to appear in *IEEE Vehicular Technology Magazine*.

**[M22]** A.U. Chaudhry, Halim Yanikomeroglu, “**Laser inter-satellite links in a Starlink constellation: A classification and analysis**”, to appear in *IEEE Vehicular Technology Magazine*, 2021.

**[M21]** A. Burak Ozyurt, M. Basaran, M. Ardanuc, L. Durak-Ata, H. Yanikomeroglu, “**Intra-cell frequency band exiling for green wireless networks**”, to appear in *IEEE Vehicular Technology Magazine*, 2021.

**[M20]** A.U. Chaudhry, H. Yanikomeroglu, “**Free space optics for next-generation satellite networks**”, to appear in *IEEE Consumer Electronics Magazine*, 2021. (04)

**[M19]** Z. Sadreddini, H. Yanikomeroglu, “**A novel centralized cloud-based mobile data rollover management**”, *IEEE Wireless Communications Magazine*, Apr 2021.

**[M18]** C.E. Kement, B. Tavli, H. Gultekin, H. Yanikomeroglu, “**Holistic privacy for electricity, water, and natural gas metering in next generation smart homes**”, *IEEE Communications Magazine*, Mar 2021. (02)

**[M17]** M.S. Alam, G. Karabulut Kurt, H. Yanikomeroglu, P. Zhu, N.-D. Dao, “**High altitude platform station based super macro base station (HAPS-SMBS) constellations**”, *IEEE Communications Magazine*, Jan 2021. (08)

**[M16]** S. Alfattani, W. Jaafar, Y. Hmamouche, H. Yanikomeroglu, A. Yongacoglu, N.D. Dao, P. Zhu, “**Aerial platforms with reconfigurable smart surfaces for 5G and beyond**”, *IEEE Communications Magazine*, Jan 2021. (09)



## IEEE Magazine Papers – 2020

**[M15]** K. Tekbiyik, A.R. Ekti, G. Karabulut Kurt, A. Gorcin, H. Yanikomeroglu, “A holistic investigation on terahertz propagation and channel modeling toward vertical heterogeneous networks”, *IEEE Communications Magazine*, Nov 2020. (08)

**[M14]** R. Alkurd, I. Abualhaol, H. Yanikomeroglu, “Big-data-driven and AI-based framework to enable personalization in wireless networks”, *IEEE Communications Magazine*, Mar 2020. (07)



## IEEE Magazine Papers – 2019

[M13] C. Altun, B. Tavli, H. Yanikomeroglu, “**Liberalization of digital twins of IoT enabled home appliances via blockchains and absolute ownership rights**”, *IEEE Communications Magazine*, Dec 2019. (06)

[M12] H. Abou-Zeid, F. Pervez, A. Adinoyi, M. Aljlayl, H. Yanikomeroglu, “**Cellular V2X transmission for connected and autonomous vehicles: Standardization, applications, and enabling technologies**”, *IEEE Consumer Electronics Magazine*, Nov-Dec 2019. (16)

[M11] S. Andreev, V. Petrov, M. Dohler, H. Yanikomeroglu, “**Future of ultra-dense networks beyond 5G: Harnessing heterogeneous moving cells**”, *IEEE Communications Magazine*, Jun 2019. (74)

[M10] R.H. Gohary, H. Yanikomeroglu, “**Noncoherent MIMO signaling for block-fading channels: Approaches and challenges**”, *IEEE Vehicular Technology Magazine*, Mar 2019. (06)

[M09] I. Bor-Yaliniz, M. Salem, G. Senerath, H. Yanikomeroglu, “**Is 5G ready for drones?: A look into contemporary and prospective wireless networks from a standardization perspective**”, *IEEE Wireless Communications Magazine*, Feb 2019. (50)

[M08] V. Petrov, K. Mikhaylov, D. Moltchanov, S. Andreev, G. Fodor, J. Torsner, H. Yanikomeroglu, M. Juntti, Y. Koucheryavy, “**When IoT keeps people in the loop: A path towards a new global utility**”, *IEEE Communications Magazine*, Jan 2019. (40)



## IEEE Magazine Papers – 2018 and Before

**[M07]** M. Alzenad, M.Z. Shakir, H. Yanikomeroglu, M.-S. Alouini, “**FSO-based vertical backhaul/fronthaul framework for 5G+ wireless networks**”, *IEEE Communications Magazine*, Jan 2018. (273)

**[M06]** I. Bor-Yaliniz, H. Yanikomeroglu, “**The new frontier in RAN heterogeneity: Multi-tier drone-cells**”, *IEEE Communications Magazine*, Nov 2016. (359)

**[M05]** S. Andreev, O. Galinina, A. Pyattaev, J. Hosek, P. Masek, H. Yanikomeroglu, Y. Koucheryavy, “**Exploring synergy between communications, caching, and computing in 5G-grade deployments**”, *IEEE Communications Magazine*, Aug 2016. (74)

**[M04]** M. Mirahsan, R. Schoenen, H. Yanikomeroglu, G. Senerath, N.-D. Dao, “**User-in-the-loop for HetHetNets with backhaul capacity constraints**”, *IEEE Wireless Communications Mag.*, Oct 2015. (19)

**[M03]** M.N. Tehrani, M. Uysal, H. Yanikomeroglu, “**Device-to-device communication in 5G cellular networks: Challenges, solutions and future directions**”, *IEEE Communications Mag.*, May 2014. (1024)

**[M02]** R. Schoenen, H. Yanikomeroglu, “**User-in-the-loop: Spatial and temporal demand shaping for sustainable wireless networks**”, *IEEE Communications Magazine*, Feb 2014. (44)

**[M01]** R. Pabst, B.H. Walke, D.C. Schultz, P. Herhold, H. Yanikomeroglu, S. Mukherjee, H. Viswanathan, M. Lott, W. Zirwas, M. Dohler, H. Aghvami, D.D. Falconer, G.P. Fettweis, “**Relay-based deployment concepts for wireless and mobile broadband radio**”, *IEEE Communications Magazine*, Sep 2004. (2280)