IEEE Journal Papers (under review) (2591 citations)


IEEE Journal Papers (under review)


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”, under review in *IEEE Communications Magazine*.

W. Jaafar, H. Yanikomeroglu, “Dynamics of laser-charged UAVs: A battery perspective”, under review in *IEEE Internet of Things Journal*. (01)


N. Cherif, M. Alzenad, H. Yanikomeroglu, A. Yongacoglu, “Downlink coverage and rate analysis of an aerial user in vertical heterogeneous networks (VHetNets)”, under review in *IEEE Transactions on Wireless Communications*. (07)
IEEE Journal Papers (2021)


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<th>Title</th>
<th>Journal, Year</th>
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<tr>
<td>Wireless networks with cache-enabled and backhaul-limited aerial base stations</td>
<td><em>IEEE Transactions on Wireless Communications</em>, 2020. (01)</td>
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<td>Trajectory design and power allocation for drone-assisted NR-V2X network with dynamic NOMA/OMA</td>
<td><em>IEEE Trans Wireless Commun.</em></td>
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<td>Profit maximization in 5G+ with heterogeneous aerial and ground base stations</td>
<td><em>IEEE Transactions on Mobile Computing</em>, Oct 2020. (01)</td>
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<td>Backhaul-aware optimization of a UAV base station location and bandwidth allocation for profit maximization</td>
<td><em>IEEE Access</em>, 2020. (10)</td>
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<td>Beamforming for maximal coverage in mmWave drones: A reinforcement learning approach</td>
<td><em>IEEE Communications Letters</em>, May 2020. (02)</td>
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<td>Mobility-assisted over-the-air computation for backscatter sensor networks</td>
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<td>Optimal altitude selection of aerial base stations to maximize coverage and energy harvesting probabilities: A stochastic geometry analysis</td>
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Publications
Integrated Aerial/Terrestrial Access Networks


IEEE Conference Papers (2020–2021)


O.A. Topal, G. Karabulut Kurt, H. Yanikomeroglu, “Securing the inter-satellite links: Doppler frequency shift based physical layer key generation”, *IEEE WiSEE 2020*.


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<tr>
<td>Coverage and rate analysis for downlink unmanned aerial vehicles base stations with LoS/NLoS propagation</td>
<td>M. Alzenad, H. Yanikomeroglu</td>
<td><em>IEEE Globecom Workshops 2018</em></td>
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<td>User association and bandwidth allocation for terrestrial and aerial base stations with backhaul considerations</td>
<td>E. Kalantari, I. Bor-Yaliniz, A. Yongacoglu, H. Yanikomeroglu</td>
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<td>On the number and 3D placement of drone base stations in wireless cellular networks</td>
<td>E. Kalantari, H. Yanikomeroglu, A. Yongacoglu</td>
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<td>Efficient 3-D placement of an aerial base station in next generation cellular networks</td>
<td>I. Bor Yaliniz, A. El-Keyi, H. Yanikomeroglu</td>
<td><em>IEEE Int’l Conf. in Communications (ICC)</em> 2016</td>
<td>504</td>
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- U of Massachusetts Amherst, USA (Pishro-Nik)

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