List of Publications – Halim Yanikomeroglu

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DBLP
Google Scholar
ResearchGate
Elsevier Mendeley
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Submissions under Review


review in *IEEE Transactions on Vehicular Technology* (submission: 25 May 2020, 1st results: 12 July 2020).


[JS02] Monirosharieh Vameghestabbanati, Ian Marsland, Ramy H. Gohary, and Halim Yanikomeroglu, “Hypercube-based SNR-adaptive multidimensional constellation design for uplink SCMA systems”, under review in *IEEE Transactions on Communications* ( submission:


**Refereed Publications**

**2020**


[J159] 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* (acceptance: 24 July 2020). [arXiv] [ResearchGate] [Xplore]


[J157] 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* (acceptance: 26 June 2020). [arXiv] [ResearchGate] [Xplore]

[J155] Lina Bariah, Sami Muhaidat, Paschalis Sofotasios, Sanjeev Gurugopinath, Walaa Hamouda, and Halim Yanikomeroglu, “Non-orthogonal multiple access in the presence of additive generalized Gaussian noise”, *IEEE Communications Letters* (acceptance: 05 May 2020). [arXiv] [ResearchGate] [Xplore]


[J150] Amin Farajzadeh, Ozgur Ercetin, and Halim Yanikomeroglu, “Mobility-assisted over-the-air computation for backscatter sensor networks”, *IEEE Wireless Communications Letters*, vol. 9, no. 5, May 2020. [arXiv] [ResearchGate] [Xplore]


[J148] Rawan Alkurd, Ibrahim Abualhaol, and Halim Yanikomeroglu, “Big data and AI-based framework to enable personalization in wireless networks”, *IEEE Communications Magazine*, vol. 58, no. 3, pp. 18-24, March 2020. [ResearchGate] [Xplore]


Monirosharieh Vameghestahbanati, Ian Marsland, Ramy H. Gohary, and Halim Yanikomeroglu, “Hypercube-based multidimensional constellation design for uplink SCMA systems”, *IEEE International Conference on Communications Workshops (ICCW) 2020*, 07–11 June 2020, Dublin, Ireland. [ResearchGate] [Xplore]

Irem Bor-Yaliniz, Gamini Senarath, and Halim Yanikomeroglu, “Aerial access nodes and virtual wireless access: A look into integration strategies”, *IEEE International Conference on Communications (ICC) 2020*, 07–11 June 2020, Dublin, Ireland. [ResearchGate] [Xplore]


Abdulsamet Caglan, Adem Cicek, Enver Cavus, Ebrahim Bedeer, and Halim Yanikomeroglu, “Polar coded faster-than-Nyquist (FTN) signaling with symbol-by-symbol detection”, *IEEE Wireless Communications and Networking Conference (WCNC) 2020*, 25–28 May 2020, Seoul, South Korea. [arXiv] [ResearchGate] [Xplore]
[C251] Monirosharieh Vameghestahbanati, Ian D. Marsland, Ramy Gohary, Halim Yanikomeroglu, and Javad Abdoli, “How does channel coding affect the design of uplink SCMA multidimensional constellations?”, IEEE Wireless Communications and Networking Conference (WCNC) 2020, 25–28 May 2020, Seoul, South Korea. [ResearchGate] [Xplore]

2019


[J137] Hossein Vaezy, Mohammad Javad Omidi, Mohammad Mahdi Naghsh, and Halim Yanikomeroglu, “Energy efficient transceiver design in MIMO interference channels: The selfish, unselfish, worst-case, and robust methods”, *IEEE Transactions on Communications*, vol. 67, no. 8, pp. 5377-5389, August 2019. [ResearchGate] [Xplore]


[J135] Hossein Vaezy, Mohammad Javad Omidi, and Halim Yanikomeroglu, “Energy efficient precoder design in multi-user MIMO systems with imperfect channel state information”, *IEEE Wireless Communications Letters*, vol. 8, no. 3, pp. 669-672, June 2019. [arXiv] [ResearchGate] [Xplore]


[J133] Saeede Enayati, Hamid Saeedi, Hossein Pishro-Nik, and Halim Yanikomeroglu, “Moving aerial base station networks: Stochastic geometry analysis and design perspectives”, *IEEE Transactions on Wireless Communications*, vol. 18, no. 6, pp. 2977-2988, June 2019. [ResearchGate] [Xplore]

[J132] Xiaohui Zhou, Jing Guo, Salman Durrani, and Halim Yanikomeroglu, “Underlay drone cell for temporal events: Impact of drone height and aerial channel environments”, *IEEE Internet of Things Journal*, vol. 6, no. 2, pp. 1704-1718, April 2019. [arXiv] [ResearchGate] [Xplore]

[J131] Hossein Khoshnevis, Ian Marsland, and Halim Yanikomeroglu, “Throughput-based design for polar coded-modulation”, *IEEE Transactions on Communications*, vol. 67, no. 3, pp. 1770-1782, March 2019. [arXiv] [ResearchGate] [Xplore]


[J128] Irem Bor-Yaliniz, Mohamed Salem, Gamini Senarath, and Halim Yanikomeroglu, “Is 5G ready for drones?: A look into contemporary and prospective wireless networks from a standardization perspective”, *IEEE Wireless Communications Magazine*, vol. 26, no. 1, pp. 18-27, February 2019. [ResearchGate] [Xplore]


[C249] Nesrine Cherif, Mohamed Alzenad, Halim Yanikomeroglu, and Abbas Yongacoglu, “Downlink coverage analysis of an aerial user in vertical heterogeneous networks”, IEEE Global Communications Conference (Globecom) 2019, 09–13 December 2019, Waikoloa, Hawaii, USA. [Xplore]


[C233] Cihan Tugrul Cicek, Hakan Gultekin, Bulent Tavli, and Halim Yanikomeroglu, “UAV Base station location optimization for next generation wireless networks: Overview and future research directions”, IEEE UVS-Oman 2019, Muscat, Oman, 5–7 February 2019. [arXiv] [ResearchGate] [Xplore]

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[C228] Xiaohui Zhou, Jing Guo, Salman Durrani, and Halim Yanikomeroglu, “Uplink coverage performance of an underlay drone cell for temporary events”, Invited Paper, IEEE International Conference on Communications Workshops (ICCW) 2018, 20–24 May 2018, Kansas City, MO, USA. [arXiv] [ResearchGate] [Xplore]


[C226] Taimour Aldalgamouni, Mehmet Cagri Ilter, Osamah S. Badarneh, and Halim Yanikomeroglu, “Performance analysis of Fisher-Snedecor F composite fading channels”, IEEE Middle East and North Africa Communications Conference (MENACOMM) 2018, 18–20 April 2018, Jounieh, Lebanon. [ResearchGate] [Xplore]


[C224] Rozhina Ghanavi, Elham Kalantari, Maryam Sabbaghian, Halim Yanikomeroglu, and Abbas Yongacoglu, “Efficient 3D aerial base station placement considering users mobility by reinforcement learning”, IEEE Wireless Communications and Networking Conference (WCNC) 2018, 15–18 April 2018, Barcelona, Spain. [arXiv] [ResearchGate] [Xplore]

[C223] Fatima Ezzahra Airod, Houda Chafrani, and Halim Yanikomeroglu, “Performance analysis of low latency multiple full-duplex selective decode and forward relays”, IEEE Wireless Communications and Networking Conference (WCNC) 2018, 15–18 April 2018, Barcelona, Spain. [arXiv] [ResearchGate] [Xplore]

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[J104] Yaser M. M. Fouad, Ramy H. Gohary, and Halim Yanikomeroglu, “Number-theoretic sequence design for uncoordinated autonomous multiple access in relay-assisted machine-type communications”, *IEEE Transactions on Vehicular Technology*, vol. 66, no. 10, pp. 9018-9034, October 2017. [ResearchGate] [Xplore]

[J103] Jing Guo, Salman Durran, Xiangyun Zhou, and Halim Yanikomeroglu, “Massive machine type communication with data aggregation and resource scheduling”, *IEEE Transactions on Communications*, vol. 65, no. 9, pp. 4012-4026, September 2017. [arXiv] [ResearchGate] [Xplore]


[J101] Karim G. Seddik, Ramy H. Gohary, Mohammad T. Hussein, Mohammad Shaqfeh, Hussein Alnuweiri, and Halim Yanikomeroglu, “Multi-resolution multicasting over the Grassmann and Stiefel manifolds”, *IEEE Transactions on Wireless Communications*, vol. 16, no. 8, pp. 5296-5310, August 2017. [ResearchGate] [Xplore]

[J100] Mohamed Alzenad, Amr El-Keyi, Faraj Lagum, and Halim Yanikomeroglu, “3D placement of an unmanned aerial vehicle base station (UAV-BS) for energy-efficient maximal coverage”, *IEEE Wireless Communications Letters*, vol. 6, no. 3, pp. 434-437, August 2017. [arXiv] [ResearchGate] [Xplore]


Mohammad Reza Abedi, Nader Mokari, Hamid Saeedi, and Halim Yanikomeroglu, “Robust resource allocation to enhance physical layer security in systems with full-duplex receivers: Active adversary”, *IEEE Transactions on Wireless Communications*, vol. 16, no. 2, pp. 885-899, February 2017. [ResearchGate] [Xplore]

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Elham Kalantari, Irem Bor-Yaliniz, Abbas Yongacoglu, and Halim Yanikomeroglu, “User association and bandwidth allocation for terrestrial and aerial base stations with backhaul considerations”, Invited Paper, *IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC) 2017*, 08–13 October 2017, Montreal, Quebec, Canada. [arXiv] [ResearchGate] [Xplore]

Farhan Pervez, Abdulkareem Adinoyi, and Halim Yanikomeroglu, “Efficient resource allocation for video streaming for 5G network-to-vehicle communications”, *IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC) 2017 Workshops*, 08–13 October 2017, Montreal, Quebec, Canada. [ResearchGate] [Xplore]

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[C213] Amr El-Keyi, Oktay Ureten, Trevor Yensen, and Halim Yanikomeroglu, “LTE physical-layer identity detection in the presence of jamming”, IEEE Vehicular Technology Conference (VTC2017-Fall), 24–27 September 2017, Toronto, Canada. [ResearchGate] [Xplore]

[C212] Hossein Khoshnevis, Ian Marsland, and Halim Yanikomeroglu, "Throughput-based design of polar codes", IEEE Vehicular Technology Conference (VTC2017-Fall), 24–27 September 2017, Toronto, Canada. [ResearchGate] [Xplore]


[C210] Elham Kalantari, Muhammad Zeeshan Shakir, Halim Yanikomeroglu, and Abbas Yongacoglu, “Backhaul-aware robust 3D drone placement in 5G+ wireless networks”, IEEE International Conference on Communications (ICC) Workshops 2017 – Workshop on Flexible Networks (FlexNets), 21 May 2017, Paris, France. [arXiv] [ResearchGate] [Xplore]


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[J86] David Gonzalez G, Jyri Hamalainen, Halim Yanikomeroglu, Mario Garcia-Lozano, and

[J85] Irem Bor-Yaliniz and Halim Yanikomeroglu, “The new frontier in RAN heterogeneity: Multi-tier drone-cells”, *IEEE Communications Magazine*, vol. 54, no. 11, pp. 48-55, November 2016. [ResearchGate] [arXiv] [Xplore]


[J81] Sergey Andreev, Olga Galinina, Alexander Pyattaev, Jiri Hosek, Pavel Masek, Halim Yanikomeroglu, and Yevgeni Koucheryavy, “Exploring synergy between communications, caching, and computing in 5G-grade deployments”, *IEEE Communications Magazine*, no. 8, pp. 60-69, August 2016. [ResearchGate] [Xplore]

[J80] Sebastian Szyszkowicz, Andres Lou, and Halim Yanikomeroglu, “Automated placement of individual millimeter-wave wall-mounted base stations for line-of-sight coverage of outdoor urban areas”, *IEEE Wireless Communications Letters*, vol. 5, no. 3, pp. 316-319, June 2016. [ResearchGate] [Xplore]

[J79] Faraj Lagum, Sebastian S. Szyszkowicz, and Halim Yanikomeroglu, “CoV-based metrics to quantify the regularity of hard-core point processes for modeling the locations of base stations”, *IEEE Wireless Communications Letters*, vol. 5, no. 3, pp. 276-279, June 2016. [Xplore]


[J77] Mohammad Reza Abedi, Nader Mokari, Mohammad Reza Javan, and Halim Yanikomeroglu, “Limited rate feedback scheme for resource allocation in secure relay-assisted OFDMA networks”, *IEEE Transactions on Wireless Communications*, vol. 15, no. 4, pp. 2604-2618, April 2016. [ResearchGate] [Xplore]

[J75] Rozita Rashtchi, Ramy H. Gohary, and Halim Yanikomeroglu, “Generalized cross-layer designs for generic half-duplex multicarrier wireless networks with frequency reuse”, *IEEE Transactions on Wireless Communications*, vol. 15, no. 1, pp. 458-471, January 2016. [ResearchGate] [arXiv] [Xplore]


[C206] Ziwen Zhao, Sebastian Szyszkowicz, Tamer Beitalmal, and Halim Yanikomeroglu, “Spatial clustering in slotted ALOHA two-hop random access for machine type communication”, *2016 IEEE Global Communications Conference (Globecom)*, 4–8 December 2016, Washington, DC, USA. [Xplore]


[C204] Faraj Lagum, Sebastian Szyszkowicz, and Halim Yanikomeroglu, “Quantifying the regularity of perturbed triangular lattices using CoV-based metrics for modeling the locations of Base Stations in HetNets”, *IEEE 84th Vehicular Technology Conference (VTC2016-Fall)*, 18–21 September 2016, Montreal, QC, Canada. [Xplore]

[C203] Rainer Schoenen, Hamza Umit Sokun, and Halim Yanikomeroglu, “Green cellular demand control with user-in-the-loop enabled by smart data pricing using an effective quantum (eBit) tariff”, *IEEE 84th Vehicular Technology Conference (VTC2016-Fall)*, Invited Paper, 18–21 September 2016, Montreal, QC, Canada. [Xplore]

[C202] Elham Kalantari, Halim Yanikomeroglu, and Abbas Yongacoglu, “On the number and 3D placement of drone base stations in wireless cellular networks”, *IEEE 84th Vehicular Technology Conference (VTC2016-Fall)*, 18–21 September 2016, Montreal, QC, Canada. [arXiv] [ResearchGate] [Xplore]
[C201] Tamer Beitelmal, Sebastian Szyszkowicz, and Halim Yanikomeroglu, “Regular and static sector-based cell switch-off patterns”, IEEE 84th Vehicular Technology Conference (VTC2016-Fall), 18–21 September 2016, Montreal, QC, Canada. [Xplore]


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[C191] Kevin Luo, Ramy H. Gohary, and Halim Yanikomeroglu, “The capacity of a broadcast
channel with Gaussian jamming and a friendly eavesdropper”, *IEEE Information Theory Workshop (ITW) 2015*, 11–15 October 2015, Jeju Island, Korea. [pdf]


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evaluation of LTE-Advanced downlink CoMP schemes subject to channel estimation errors and system delay”, IEEE VTC2013-Fall, 2–5 September 2013, Las Vegas, USA. [pdf]


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[C150] Rainer Schoenen, Gurhan Bulu, Amir Mirtaheri, Tamer Beitelmal, and Halim Yanikomeroglu, “First survey results of quantified user behavior in user-in-the-loop scenarios for
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Soumitra Dixit, Shalini Periyalwar, and Halim Yanikomeroglu, “A competitive and dynamic pricing model for secondary users in infrastructure based wireless networks”, IEEE Vehicular Technology Conference (VTC2010-Fall), 6 – 9 September 2010, Ottawa, ON, Canada. [pdf]


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[C105] Muhammad Aljuaid and Halim Yanikomeroglu, “Investigating the validity of a Gaussian approximation for the distribution of the aggregate interference power in large wireless networks”, 25th Biennial Symposium on Communications (QBSC 2010), 12 – 14 May 2010, Queen’s University, Kingston, ON, Canada. [pdf]

[C104] Akram Bin Sediq, Petar Djukic, Halim Yanikomeroglu, and Jietao Zhang, “Near-optimal non-uniform constellation rearrangement for cooperative relaying”, 25th Biennial Symposium on Communications (QBSC 2010), 12 – 14 May 2010, Queen’s University, Kingston, ON, Canada.


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[J25] Abdulkareem Adinoyi, Yijia Fan, Halim Yanikomeroglu, H. Vincent Poor, and Furaih A-


[C99] Sebastian Szyszkowicz and Halim Yanikomeroglu, “Fitting the modified power-lognormal to the sum of independent lognormals distribution”, IEEE Globecom 2009, 30 November – 4 December 2009, Honolulu, HI, USA. [pdf]


[C96] Houda Chafnaji, Tarik Ait-Idir, Halim Yanikomeroglu, and Samir Saoudi, “Turbo packet
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[C56] Keivan Navaie and Halim Yanikomeroglu, "An optimal downlink joint base-station


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Book Chapters


Selected Non-Refereed Publications

"WWRF WG4 - White Paper: Relay-Based Deployment Concepts for Wireless and Mobile Broadband Cellular Radio", prepared by contributions from thirteen researchers including H. Yanikomeroglu, Joint Workshop IEEE - WWRF, October 2003, New York, USA.

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