List of Publications – Halim Yanikomeroglu

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DBLP
Google Scholar
ResearchGate
Elsevier Mendeley
Guide2Research

Submissions under Review


Musa Otaru, Abdulkareem Adinoyi, Mohammed Ajiya, Mohammed Aljlayl, and Halim Yanikomeroglu, “Modified ARQ-based cooperative relaying scheme for a delay tolerant network”, IEEE ICC Workshops 2021, 14–18 June 2021, Montreal, Quebec, Canada.

[CS02] Nadir Adam, Cristiano Tapparello, Wendi Heinzelman, and Halim Yanikomeroglu, “Utilizing ground nodes with multi-hop capabilities to extend the range of UAV-BSs”, *IEEE ICC Workshops 2021*, 14–18 June 2021, Montreal, Quebec, Canada.


**Refereed Publications**

2021


Wael Jaafar and Halim Yanikomeroglu, “Dynamics of laser-charged UAVs: A battery perspective”, IEEE Internet of Things Journal (acceptance: 23 Dec 2020). [arXiv] [ResearchGate] [Xplore]

Medhat Elsayed, Melike Erol-Kantarci, and Halim Yanikomeroglu, “Transfer reinforcement learning for 5G-NR mm-wave networks”, IEEE Transactions on Wireless Communications (acceptance: 01 Dec 2020). [arXiv] [ResearchGate] [Xplore]


[J176] 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 Wireless Communications*, vol. 20, no. 3, pp. 1501-1516, March 2021. [arXiv] [ResearchGate] [Xplore]


[J174] Mohammad G. Khoshkholgh and Halim Yanikomeroglu, “Learning power control from a fixed batch of data”, *IEEE Wireless Communications Letters*, vol. 10, no. 3, pp. 512-516, March 2021. [arXiv] [ResearchGate] [Xplore]


[J172] 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*, vol. 9, pp. 31179-31190, 2021. [arXiv] [ResearchGate] [Xplore]

[J171] 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*, vol. 8, no. 3, pp. 1453-1466, February 1, 2021. [arXiv] [ResearchGate] [Xplore]


configurations and opportunities”, *IEEE Open Journal of Vehicular Technology*, vol. 2, pp. 45-53, 2021. [TechRxiv] [arXiv] [ResearchGate] [Xplore]


[C263] Omid Abbasi and Halim Yanikomeroglu, “Rate-splitting and NOMA-enabled uplink user cooperation”, *IEEE WCNC Workshops 2021*, 29 March – 01 April 2021, Nanjing, China.


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Omar Maraqa, Aditya S. Rajasekaran, Saad Al-Ahmadi, Halim Yanikomeroglu, and Sadiq M. Sait, “A survey of rate-optimal power domain NOMA with enabling technologies of future wireless networks”, *IEEE Communications Surveys & Tutorials*, vol. 22, no. 4, pp. 2192-2235, Fourthquarter 2020. [arXiv] [ResearchGate] [Xplore]


Elham Kalantari, Halim Yanikomeroglu, and Abbas Yongacoglu, “Wireless networks with cache-enabled and backhaul-limited aerial base stations”, *IEEE Transactions on Wireless Communications*, vol. 19, no. 11, pp. 7363-7376, November 2020. [arXiv] [ResearchGate] [Xplore]

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*, vol. 19, no. 11, pp. 7153-7168, November 2020. [arXiv] [ResearchGate] [Xplore]

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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*, vol. 24, no. 10, pp. 2137-2141, October 2020. [arXiv] [ResearchGate] [Xplore]


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Mohammad Reza Abedi, Mohammad Reza Javan, Nader Mokari Yamchi, and Halim Yanikomeroglu, “3D-MIMO dual communications in SCMA-based secure HetNets”, *IEEE Transactions on Vehicular Technology*, vol. 69, no. 8, pp. 8499-8513, August 2020. [ResearchGate] [Xplore]


Hossein Vaezy, Mehdi Salehi Heydar Abad, Ozgur Ercetin, Halim Yanikomeroglu, Mohammad Javad Omidi, and Mohammad Mahdi Naghsh, “Beamforming for maximal coverage in mmWave drones: A reinforcement learning approach”, *IEEE Communications Letters*, vol. 24, no. 5, pp. 1033-1037, May 2020. [ResearchGate] [Xplore]

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Michel Kulhandjian, Ebrahim Bedeer, Hovannes Kulhandjian, Claude D’Amours, and Halim Yanikomeroglu, “Low-complexity detection for faster-than-Nyquist signaling based on probabilistic data association”, *IEEE Communications Letters*, vol. 24, no: 4, pp. 762-766, April 2020. [arXiv] [ResearchGate] [Xplore]

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Nesrine Cherif, Wael Jaafar, Halim Yanikomeroglu, and Abbas Yongacoglu, “On the optimal 3D placement of a UAV base station for maximal coverage of UAV users”, *IEEE Global Communications Conference (Globecom) 2020*, 07–11 December 2020, Taipei, Taiwan. [arXiv] [ResearchGate] [Xplore]

[C259] Ozan Alp Topal, Gunes Karabulut Kurt, and Halim Yanikomeroglu, “Securing the inter-spacecraft links: Doppler frequency shift based physical layer key generation”, The 8th Annual IEEE International Conference on Wireless for Space and Extreme Environments (WISEE 2020), 12–14 October 2020, Venice, Italy. [ResearchGate] [Xplore]


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[C254] 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]


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[J144] Cankal Altun, Bulent Tavli, and Halim Yanikomeroglu, “Liberalization of digital twins of IoT enabled home appliances via blockchains and absolute ownership rights”, *IEEE Communications Magazine*, vol. 57, no. 12, pp. 65-71, December 2019. [ResearchGate] [Xplore]


[J142] Hatem Abou-Zeid, Farhan Pervez, Abdulkareem Adinoyi, Mohammed Aljlayl, and Halim Yanikomeroglu, “Cellular V2X transmission for connected and autonomous vehicles: Standardization, applications, and enabling technologies”, *IEEE Consumer Electronics Magazine*, vol. 8, no. 6, pp. 91-98, November–December 2019. [ResearchGate] [Xplore]


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[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]


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uniform constellation rearrangement for cooperative relaying”, *IEEE Transactions on Vehicular Technology*, vol. 60, no. 5, pp. 2340-2347, June 2011. [pdf]


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[C35] Halim Yanikomeroglu, "Cellular multihop communications: infrastructure-based relay network architecture for 4G wireless systems", the 22nd Queen's Biennial Symposium on Communications (QBSC'04), 1-3 June 2004, Queen's University, Kingston, Ontario, Canada; invited paper. [doc]


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Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC'01), September 30 - October 3, 2001, San Diego, CA, USA. [pdf]


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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.

"Relay-Based Deployment Concepts White Paper", prepared by nine researchers including H. Yanikomeroglu, World Wireless Research Forum (WWRF) meeting no. 9, July 2003, Zurich, Switzerland.
