List of Publications – Halim Yanikomeroglu (updated on 29 August 2020)

(Please report incorrect or incomplete information to halim@see.carleton.ca)

DBLP
Google Scholar
ResearchGate
Elsevier Mendeley
Guide2Research

Submissions under Review


**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]

[J154] Arman Azizi, Saeedeh Parsaeefard, Mohammad Reza Javan, Nader Mokari, and Halim Yanikomeroglu, “Profit maximization in 5G+ networks with heterogeneous aerial and ground base
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]


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]

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]


deadlines”, *IEEE Global Communications Conference (Globecom) 2020*, 07–11 December 2020, Taipei, Taiwan.


[C255] 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]

[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]


[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]
[J145] Mohamed Alzenad and Halim Yanikomeroglu, “Coverage and rate analysis for vertical heterogeneous networks (VHetNets)”, *IEEE Transactions on Wireless Communications*, vol. 18, no. 12, pp. 5643-5657, December 2019. [ResearchGate] [Xplore]

[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]


[J140] Hossein Khoshnevis, Ian Marsland, Hamid Jafarkhani, and Halim Yanikomeroglu, “Space-time signal design for multilevel polar coding in slow fading broadcast channels”, *IEEE Transactions on Communications*, vol. 67, no. 9, pp. 5940-5952, September 2019. [arXiv] [ResearchGate] [Xplore]


[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]

[J136] Sepehr Rezvani, Saeedeh Parsaeefard, Nader Mokari, Mohammad R. Javan, and Halim Yanikomeroglu, “Cooperative multi-bitrate video caching and transcoding in multicarrier NOMA-
assisted heterogeneous virtualized MEC networks”, *IEEE Access*, vol. 7, pp. 93511-93536, 2019. [arXiv] [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]


[J126] Irem Bor-Yaliniz, Amr El-Keyi, and Halim Yanikomeroglu, “Spatial configuration of agile wireless networks with drone-BSs and user-in-the-loop”, *IEEE Transactions on Wireless Communications*, vol. 18, no. 2, pp. 753-768, February 2019. [arXiv] [ResearchGate] [Xplore]
Vitaly Petrov, Konstantin Mikhaylov, Dmitri Moltchanov, Sergey Andreev, Gabor Fodor, Johan Torsner, Halim Yanikomeroglu, Markku Juntti, and Yevgeni Koucheryavy, “When IoT keeps people in the loop: A path towards a new global utility”, *IEEE Communications Magazine*, vol. 57, no. 1, pp. 114-121, January 2019. [arXiv] [ResearchGate] [Xplore]

Safwan Alfattani, Wael Jaafar, Halim Yanikomeroglu, and Abbas Yongacoglu, “Multi-UAV data collection framework for wireless sensor networks”, *IEEE Global Communications Conference (Globecom) 2019*, 09–13 December 2019, Waikoloa, Hawaii, USA. [ResearchGate] [Xplore]

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]

Musa Usman Otaru, Mohammed Ajiya, Abdulkareem Adinoyi, Mohammed Aljlayl, and Halim Yanikomeroglu, “An ARQ-based cooperative relaying scheme for 5G IoT slice”, *IEEE Global Conference on Internet of Things (GCIoT)*, 04–07 December 2019, Dubai, UAE. [ResearchGate]

Rozhina Ghanavi, Maryam Sabbaghian, and Halim Yanikomeroglu, “Q-Learning based aerial base station placement for fairness enhancement in mobile networks”, *IEEE Global Conference on Signal Processing and Information Processing (GlobalSIP) 2019*, Ottawa, Ontario, Canada, 11–14 November 2019. [ResearchGate] [Xplore]


Monirosharieh Vameghestahbanati, Ian Marsland, Ramy H. Gohary, and Halim Yanikomeroglu, “Key performance indicators in multidimensional constellations for uplink SCMA systems”, *16th Canadian Workshop on Information Theory (CWIT)*, 02–05 June 2019, Hamilton, Ontario, Canada. [Xplore]

Cihan Tugrul Cicek, Hakan Gultekin, Bulent Tavli, and Halim Yanikomeroglu, “UAV Base station location optimization for next generation wireless networks: Overview and future
2018

[J124] Jing Guo, Xiangyun Zhou, Salman Durrani, and Halim Yanikomeroglu, “Design of non-orthogonal multiple access enhanced backscatter communication”, *IEEE Transactions on Wireless Communications*, vol. 17, no. 10, pp. 6837-6852, October 2018. [arXiv] [ResearchGate] [Xplore]

[J123] Xianbin Cao, Peng Yang, Mohamed Alzenad, Xing Xi, Dapeng Wu, and Halim Yanikomeroglu, “Airborne communication networks: A survey”, *IEEE Journal on Selected Areas in Communications*, vol. 36, no. 9, pp. 1907-1926, September 2018. [ResearchGate] [Xplore]


[J118] Taimour Aldalgamouni, Mehmet Cagri Ilter, and Halim Yanikomeroglu, “Joint power allocation and constellation design for cognitive radio systems”, *IEEE Transactions on Vehicular Technology*, vol. 67, no. 5, pp. 4661-4665, May 2018. [ResearchGate] [Xplore]


networks”, *IEEE Transactions on Wireless Communications*, vol. 17, no. 5, pp. 2932-2945, May 2018. [ResearchGate] [Xplore]

[J114] Rozita Rashtchi, Ramy H. Gohary, and Halim Yanikomeroglu, “Conjoint routing and resource allocation in OFDMA-based D2D wireless networks”, *IEEE Access*, vol. 6, pp. 18,868-18,882, 2018. [ResearchGate] [Xplore]

[J113] Mohamed Alzenad, Amr El-Keyi, and Halim Yanikomeroglu, “3D placement of an unmanned aerial vehicle base station for maximum coverage of users with different QoS requirements”, *IEEE Wireless Communications Letters*, vol. 7, no. 1, pp. 38-41, February 2018. [arXiv] [ResearchGate] [Xplore]


[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 Chafnaji, 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]

2017


[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 Durrani, 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]


[J98] Quoc-Nam Le-The, Tamer Beitelmal, Faraj Lagum, Sebastian S. Szyszkowicz, and Halim Yanikomeroglu, “Cell switch-off algorithms for spatially irregular base station deployments”, *IEEE Wireless Communications Letters*, vol. 6, no. 3, pp. 354-357, June 2017. [ResearchGate] [Xplore]


Faraj Lagum, Quoc-Nam Le-The, Tamer Beitelmal, Sebastian S. Szyszkowicz, and Halim Yanikomeroglu, “Cell switch-off for networks deployed with variable spatial regularity”, IEEE Wireless Communications Letters, vol. 6, no. 2, pp. 234-237, April 2017. [ResearchGate] [Xplore]

Nima Palizban, Sebastian Szyszkowicz, and Halim Yanikomeroglu, “Automation of millimeter wave network planning for outdoor coverage in dense urban areas using wall-mounted base stations”, IEEE Wireless Communications Letters, vol. 6, no. 2, pp. 206-209, April 2017. [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]


Jing Guo, Salman Durrani, Xiangyun Zhou, and Halim Yanikomeroglu, “Machine-type
communication with random access and data aggregation: A stochastic geometry approach”, *IEEE Global Communications Conference (Globecom) 2017*, 4–8 December 2017, Singapore.


[C220] 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]

[C219] Hossein Khoshnevis, Ian Marsland, Hamid Jafarkhani, and Halim Yanikomeroglu, “Joint optimization of polar codes and STBCs”, *IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC) 2017*, 08–13 October 2017, Montreal, Quebec, Canada. [ResearchGate] [Xplore]

[C218] Hossein Khoshnevis, Ian Marsland, and Halim Yanikomeroglu, “Polar coded multi-antenna multidimensional constellations in partially coherent channels”, *IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC) 2017*, 08–13 October 2017, Montreal, Quebec, Canada. [ResearchGate] [Xplore]

[C217] Amr El-Keyi, Hamza Umit Sokun, Tu Ngoc Nguyen, Qiubo Ye, Haiying Julie Zhu, and Halim Yanikomeroglu, “A novel probabilistic path loss model for simulating coexistence between 802.11 and 802.15.4 networks in smart home environments”, *IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC) 2017*, 08–13 October 2017, Montreal, Quebec, Canada. [ResearchGate] [Xplore]


[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]


2016


[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]


[J74] Huseyin Ugur Yildiz, Bulent Tavli, and Halim Yanikomeroglu, “Transmission power
control for link level handshaking in wireless sensor networks”, *IEEE Sensors Journal*, vol. 16, no. 2, pp. 561-576, 15 January 2016. [ResearchGate] [Xplore]


[C206] Ziwen Zhao, Sebastian Szyszkoicz, 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 Szyszkoicz, 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 Szyszkoicz, 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]


[C199] Amr El-Keyi and Halim Yanikomeroglu, “Cooperative versus full-duplex communication
in cellular networks: A comparison of the total degrees of freedom”, 2016 IEEE 84th Vehicular Technology Conference (VTC2016-Fall), 18–21 September 2016, Montreal, QC, Canada. [Xplore]


2015


MIMO multi-channel-frequency-flat systems”, *IEEE Communications Letters*, vol. 19, no. 3, pp. 475-478, March 2015. [Xplore]


[C188] Ibrahim Aydin, Halim Yanikomeroglu, and Umit Aygolu, “User-aware cell switch-off
algorithms”, 11th International Wireless Communications & Mobile Computing Conference (IWCMC), 24–27 August 2015, Dubrovnik, Croatia. [pdf]


2014


[C178] Rainer Schoenen and Halim Yanikomeroglu, “Resource pooling in network virtualization and heterogeneous scenarios using stochastic Petri nets”, IEEE Global Communications Conference (Globecom) 2014, 8–12 December 2014, Austin, TX, USA. [pdf]


2013


Kevin Luo, Ramy Gohary, and Halim Yanikomeroglu, “Analysis of the generalized DF-CF for Gaussian relay channels: decode or compress?”, *IEEE Transactions on Communications*, vol. 61, no. 5, pp. 1810-1821, May 2013. [pdf]


Ali Yildiz, Tolga Girici, and Halim Yanikomeroglu, “A pricing based algorithm for cell
switching off in green cellular networks”, IEEE Vehicular Technology Conference (VTC2013-Spring), 2–5 June 2013, Dresden, Germany. [pdf]


2012


[C155] Rozita Rashtchi, Ramy Gohary, and Halim Yanikomeroglu, “Efficiently computable


[C151] Ramy Gohary and Halim Yanikomeroglu, "Grassmannian decode-and-forward achieves the ergodic high SNR capacity of the non-coherent MIMO relay channel within a constant gap”, IEEE Information Theory Workshop (ITW 2012), 3–7 September 2012, Lausanne, Switzerland. [pdf]


[C146] Talha Ahmad, Ramy Gohary, Halim Yanikomeroglu, Saad Al-Ahmadi, and Gary Boudreau, “Coordinated max-min fair port selection in a multi-cell distributed antenna system
using semidefinite relaxation”, IEEE International Conference on Communications (ICC 2012), 10–15 June 2012, Ottawa, ON, Canada.


2011


2010


of wireless shadowing correlation models”, *IEEE Transactions on Vehicular Technology*, vol. 59, no. 9, pp. 4222-4236, November 2010. [pdf]


[C120] Alireza Sharifian, Petar Djukic, Halim Yanikomeroglu, and Jietao Zhang, “Max-min fair resource allocation for multiuser amplify-and-forward relay networks”, IEEE Vehicular Technology Conference (VTC2010-Fall), 6 – 9 September 2010, Ottawa, ON, Canada. [pdf]


[C118] Mohammad G. Khoshkholgh, Keivan Navaie, and Halim Yanikomeroglu, “Novel approaches to determine the optimal operating point of spectrum sensing in overlay spectrum sharing”, IEEE Vehicular Technology Conference (VTC2010-Fall), 6 – 9 September 2010, Ottawa, ON, Canada.


[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.


2009


[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]


[C91] Saad Al-Ahmadi and Halim Yanikomeroglu, “On the role of the input power constraint in the beamforming optimality range in TIMO channels”, Canadian Workshop on Information Theory (CWIT), 13 – 15 May 2009, Ottawa, ON, Canada. [pdf]


2008


2007


2006


[C61] Mahmudur Rahman and Halim Yanikomeroglu, “QoS provisioning in the absence of ARQ


2005


2004


[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]


Donald Walsh and Halim Yanikomeroglu, "Reverse-link power allocation in two-hop multimedia CDMA networks", IEEE Canadian Conference on Electrical and Computer Engineering 2004 (CCECE'04), 2-5 May 2004, Niagara Falls, Ontario, Canada. [pdf] [doc]


2003


Van Sreng, Halim Yanikomeroglu, and David D. Falconer, "Relayer selection strategies in cellular networks with peer-to-peer relaying", IEEE Vehicular Technology Conference Fall 2003 (VTC'F03), 4-9 October 2003, Orlando, Florida, USA. [pdf]

Shoaev Hares, Halim Yanikomeroglu, and Bassam Hashem, "A relaying algorithm for multihop TDMA TDD networks using diversity", IEEE Vehicular Technology Conference Fall 2003 (VTC'F03), 4-9 October 2003, Orlando, Florida, USA. [pdf]

Mohamed H. Ahmed, Halim Yanikomeroglu, and Samy Mahmoud, "Fairness enhancement of link adaptation techniques in wireless access networks", IEEE Vehicular Technology Conference Fall 2003 (VTC'F03), 4-9 October 2003, Orlando, Florida, USA. [pdf]

Shoaev Hares, Halim Yanikomeroglu, and Bassam Hashem, "Multi-hop relaying with diversity in peer-to-peer networks", World Wireless Research Forum (WWRF9) meeting no. 9, 1-2 July 2003, Zurich, Switzerland. [doc]

Mohamed H. Ahmed, Halim Yanikomeroglu, David D. Falconer, and Samy Mahmoud,
"Performance enhancement of joint adaptive modulation, coding and power control using cochannel-interferer assistance and channel reallocation", IEEE Wireless Communications and Networking Conference (WCNC'03), 16-20 March 2003, New Orleans, LA, USA. [pdf]


2002


[C18] Mohamed H. Ahmed, Samy Mahmoud, and Halim Yanikomeroglu, "A simulation testbed for radio resource management in broadband fixed wireless access", 21st Queen's Biennial Symposium on Communications (QBSC'02), 2-5 June, 2002, Queen's University, Kingston, ON, Canada. [pdf]


2001


[C15] John Boyer, David D. Falconer, and Halim Yanikomeroglu, "A theoretical characterization of the multihop wireless communications channel without diversity", the 12th IEEE International
Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC'01), September 30 - October 3, 2001, San Diego, CA, USA. [pdf]


2000


1999


1998


[C06] Halim Yanikomeroglu and Elvino S. Sousa, "CDMA sectorized distributed antenna


1997


[C03] Halim Yanikomeroglu and Elvino S. Sousa, "Steiner minimal tree architectures for the interconnection of wireless access networks", Proc. the 5th Canadian Workshop on Information Theory (CWIT’97), pp. 113-116, 3-6 June 1997, Toronto, ON, Canada.

1996

[C02] Halim Yanikomeroglu and Elvino S. Sousa, "Wireless access network architectures", in Proc. 3rd International Workshop on Mobile Multimedia Communications (MoMuC’96), 25-27 September 1996, Princeton, NJ, USA.

1993

[C01] Halim Yanikomeroglu and Elvino S. Sousa, "CDMA distributed antenna system for indoor wireless communications", in Proc. 2nd International Conference on Universal Personal Communications (ICUPC’93), pp. 990-994, October 1993, Ottawa, ON, Canada. [pdf]

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.
