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Wireless Communications Non-Terrestrial Networks 5G

**Satellite Communications** 

	All	Since 2019
Citations	24359	12280
h-index	66	49
i10-index	311	185

17 articles 112 articles

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TITLE	CITED BY	YEAR
Towards Reliable Participation in UAV-Enabled Federated Edge Learning of Non-IID Data Y Cheriguene, W Jaafar, H Yanikomeroglu, CA Kerrache IEEE Open Journal of Vehicular Technology	n	2023
A Vertical Heterogeneous Network (VHetNet)–Enabled Asynchronous Federated Learning-Based Anomaly Detection Framework for Ubiquitous Ic W Wang, O Abbasi, H Yanikomeroglu, C Liang, L Tang, Q Chen IEEE Open Journal of the Communications Society	т	2023
Computer Vision-Based Joint Space Sensing and Communication Systems Non-Source, Autonomy, and Low Latency H Yu, Z Hua, X Miao, S Wang, G Pan, J An, T Svensson, J Thompson, IEEE Wireless Communications 30 (6), 60-68	:	2023
Free-Space Optical (FSO) Satellite Networks Performance Analysis: Transmission Power, Latency, and Outage Probability J Liang, AU Chaudhry, E Erdogan, H Yanikomeroglu, GK Kurt, P Hu, IEEE Open Journal of Vehicular Technology		2023
RL-Based Cargo-UAV Trajectory Planning and Cell Association for Minimur Handoffs, Disconnectivity, and Energy Consumption N Cherif, W Jaafar, H Yanikomeroglu, A Yongacoglu IEEE Transactions on Vehicular Technology	m	2023
Swarm of Robotic Aerial Base Stations for mmWave Multi-Hop Backhauling Y Liao, V Friderikos, H Yanikomeroglu IEEE Wireless Communications Letters	J	2023
Overview of Passive Intermodulation in Modern Wireless Networks: Concepts and Cancellation Techniques T Ahmmed, A Kiayani, RM Shubair, H Yanikomeroglu IEEE Access 11, 128337-128353		2023
Energy Sustainability in Dense Radio Access Networks via High Altitude Platform Stations M Salamatmoghadasi, A Mehrabian, H Yanikomeroglu IEEE Networking Letters		2023
Cross-Tier Resource Allocation in Space-Air-Ground Integrated Networks for Internet of Remote Things	or	2023

TITLE	CITED BY	YEAR
Z Khodadadi, FS Tabataba, MS Fazel, MN Soorki, H Yanikomeroglu Authorea Preprints		
Interplay between physical layer security and blockchain technology for 5G and beyond: A comprehensive survey EM Ghourab, W Jaafar, L Bariah, S Muhaidat, H Yanikomeroglu, S Naser Authorea Preprints	1	2023
Latency Versus Transmission Power Trade-Off in Free-Space Optical (FSO) Satellite Networks With Multiple Inter-Continental Connections J Liang, AU Chaudhry, JW Chinneck, H Yanikomeroglu, GK Kurt, P Hu, IEEE Open Journal of the Communications Society	1	2023
Impact of hardware impairment on the uplink SIMO Cooperative NOMA with selection relay under imperfect CSI S Beddiaf, A Khelil, F Khennoufa, F Kara, K Rabie, X Li, H Kaya, A Emir, IEEE Access		2023
Video traffic analysis for real-time emotion recognition and visualization in online learning A Sassi, W Jaafar, S Cherif, JB Abderrazak, H Yanikomeroglu IEEE Access		2023
Data-Driven Modelling of Mobile Network Demand for Efficient Spectrum Management J Parekh, A Ghasemi, H Yanikomeroglu 2023 IEEE 34th Annual International Symposium on Personal, Indoor and Mobile	1	2023
Data-efficient energy-aware participant selection for UAV-enabled federated learning Y Cheriguene, W Jaafar, CA Kerrache, H Yanikomeroglu, FZ Bousbaa, 2023 IEEE 34th Annual International Symposium on Personal, Indoor and Mobile		2023
Enabling wireless network personalization using Zone of Tolerance modeling and predictive analytics R Alkurd, H Yanikomeroglu, IABU ALHAOL US Patent 11,736,973	g 3	2023
Outage Performance of Multi-Tier UAV Communication With Random Beam Misalignment W Wang, Z Fei, J Guo, S Durrani, H Yanikomeroglu IEEE Internet of Things Journal		2023
Sustaining dynamic traffic in dense urban areas with high altitude platform stations (HAPS) CE Kement, F Kara, W Jaafar, H Yanikomeroglu, G Senarath, ND Đào, IEEE Communications Magazine 61 (7), 150-156	3	2023
Wireless powered cooperative communication network for dual-hop uplink NOMA with IQI and SIC imperfections F Khennoufa, A Khelil, S Beddiaf, F Kara, K Rabie, H Kaya, A Emir, S Ikki, IEEE Access	1	2023

TITLE	CITED BY	YEAR
Multimode high-altitude platform stations for next-generation wireless networks: Selection mechanism, benefits, and potential challenges S Alfattani, W Jaafar, H Yanikomeroglu, A Yongaçoglu IEEE Vehicular Technology Magazine	2 *	2023
Joint Beamforming and User Association Design for Integrated HAPS- Terrestrial Networks AA Shamsabadi, A Yadav, H Yanikomeroglu arXiv preprint arXiv:2307.08202		2023
Robust deployment and resource allocation for robotic aerial base station enabled OFDM integrated sensing and communication Y Liao, V Friderikos, H Yanikomeroglu IEEE Wireless Communications Letters	1	2023
Robust and Feasible QoS-Aware mmWave Massive MIMO Hybrid Beamforming M Tajallifar, AR Sharafat, H Yanikomeroglu IEEE Transactions on Wireless Communications		2023
Interplay of NOMA and GSSK: Detection Strategies and Performance Analysis R Kishore, S Gurugopinath, L Bariah, S Muhaidat, PC Sofotasios, IEEE Open Journal of Vehicular Technology		2023
FLSTRA: Federated learning in stratosphere A Farajzadeh, A Yadav, O Abbasi, W Jaafar, H Yanikomeroglu IEEE Transactions on Wireless Communications	2	2023
Linear/Non-Linear Energy Harvesting Models via Multi-Antenna Relay Cooperation in V2V Communications S Kosu, M Babaei, SÖ Ata, L Durak-Ata, H Yanikomeroglu IEEE Transactions on Green Communications and Networking	3	2023
Distributed multiple-input multiple-output low earth orbit satellite systems an methods M Abdelsadek, GK Kurt, H Yanikomeroglu US Patent App. 18/074,893	d	2023
High Altitude Platform Station (HAPS)-Enabled Parallel Computing for Handoff Control in Vehicular Networks Q Ren, O Abbasi, GK Kurt, H Yanikomeroglu, J Chen ICC 2023-IEEE International Conference on Communications, 290-295		2023
MIMO Asynchronous MAC with Faster-than-Nyquist (FTN) Signaling Z Zhang, M Yuksel, H Yanikomeroglu, BK Ng, CT Lam arXiv preprint arXiv:2305.12261		2023
Energy Efficiency Analysis in Heterogeneous Networks: A Stochastic Geometry Perspective M Ardanuc, M Basaran, Y Hmamouche, L Durak-Ata, H Yanikomeroglu IEEE Open Journal of Vehicular Technology		2023

TITLE	CITED BY	YEAR
Neural Network Aided User Clustering in mmWave-NOMA Systems with User Decoding Capability Constraints AS Rajasekaran, H Yanikomeroglu IEEE Access	2	2023
Routing Heterogeneous Traffic in Delay-Tolerant Satellite Networks PG Madoery, GK Kurt, H Yanikomeroglu, P Hu, K Ahmed, S Martel, IEEE Journal of Radio Frequency Identification	4	2023
Capacity region of asynchronous multiple access channels with FTN Z Zhang, M Yuksel, GM Guvensen, H Yanikomeroglu IEEE Communications Letters	1	2023
Handoff-Aware Distributed Computing in High Altitude Platform Station (HAPS)—Assisted Vehicular Networks Q Ren, O Abbasi, GK Kurt, H Yanikomeroglu, J Chen IEEE Transactions on Wireless Communications	2	2023
Bit-Interleaved Multiple Access: Improved Fairness, Reliability, and Latency for Massive IoT Networks F Kara, H Kaya, H Yanikomeroglu, BK Ng, CT Lam IEEE Internet of Things Journal		2023
Energy Efficiency Optimization for Multiple Access in NOMA-Enabled Space Air-Ground Networks S Wang, Z Fei, J Guo, Q Cui, S Durrani, H Yanikomeroglu IEEE Internet of Things Journal	9- 4	2023
Energy-Efficient Optimization of Multi-User NOMA-Assisted Cooperative THz-SIMO MEC Systems O Maraqa, S Al-Ahmadi, A Rajasekaran, H Sokun, H Yanikomeroglu, IEEE Transactions on Communications	1	2023
A Positioning System in an Urban Vertical Heterogeneous Network (VHetNet) H Zheng, M Atia, H Yanikomeroglu IEEE Journal of Radio Frequency Identification	1	2023
Multi-Objective Energy Efficient Resource Allocation in Massive Multiple Input Multiple Output-Aided Heterogeneous Cloud Radio Access Networks N Amani, S Parsaeefard, H Yanikomeroglu IEEE Access 11, 33480-33497		2023
HAPS-Enabled Sustainability Provision in Cellular Networks through Cell-Switching G Berkay Koç, B Çiloğlu, M Öztürk, H Yanikomeroglu arXiv e-prints, arXiv: 2304.08620	1 *	2023
Managing Sets of Flying Base Stations Using Energy Efficient 3D Trajectory Planning in Cellular Networks MJ Sobouti, AH Mohajerzadeh, SAH Seno, H Yanikomeroglu IEEE Sensors Journal	2	2023

TITLE	CITED BY	YEAR
On the Performance of RIS-enabled NOMA for Aerial Networks L Bariah, F Boukhalfa, W Jaafar, S Muhaidat, H Yanikomeroglu 2023 IEEE Wireless Communications and Networking Conference (WCNC), 1-6	2	2023
Laser Inter-Satellite Link Setup Delay: Quantification, Impact, and Tolerable Value D Bhattacharjee, AU Chaudhry, H Yanikomeroglu, P Hu, G Lamontagne 2023 IEEE Wireless Communications and Networking Conference (WCNC), 1-6	7	2023
MetNet: A Novel Low-Complexity Neural Network-Aided Detection for Faster-Than-Nyquist (FTN) Signaling in ISI Channels A Abdelsamie, I Marsland, A Ibrahim, H Yanikomeroglu IEEE Open Journal of the Communications Society 4, 798-809		2023
Broadband Connectivity for Handheld Devices via LEO Satellites: Is Distributed Massive MIMO the Answer? MY Abdelsadek, G Karabulut-Kurt, H Yanikomeroglu, P Hu, IEEE Open Journal of the Communications Society 4, 713-726	3	2023
A VHetNet-Enabled Asynchronous Federated Learning-Based Anomaly Detection Framework for Ubiquitous IoT W Wang, O Abbasi, H Yanikomeroglu, C Liang, L Tang, Q Chen arXiv preprint arXiv:2303.02948	2	2023
Smart Resource Allocation Model via Artificial Intelligence in Software Defined 6G Networks A Nouruzi, A Rezaei, A Khalili, N Mokari, MR Javan, EA Jorswieck, arXiv preprint arXiv:2302.04655		2023
Self-evolving integrated vertical heterogeneous networks A Farajzadeh, MG Khoshkholgh, H Yanikomeroglu, O Ercetin IEEE Open Journal of the Communications Society 4, 552-580	8	2023
Laser Intersatellite Link Range in Free-Space Optical Satellite Networks: Impact on Latency AU Chaudhry, G Lamontagne, H Yanikomeroglu IEEE Aerospace and Electronic Systems Magazine 38 (4), 4-13	4	2023
Spectrum Sharing Schemes From 4G to 5G and Beyond: Protocol Flow, Regulation, Ecosystem, Economic M Parvini, AH Zarif, A Nouruzi, N Mokari, MR Javan, B Abbasi, A Ghasemi, IEEE Open Journal of the Communications Society 4, 464-517	12 *	2023
Resource-Efficient HAPS-RIS Enabled Beyond-Cell Communications S Alfattani, A Yadav, H Yanikomeroglu, A Yongacoglu IEEE Wireless Communications Letters 12 (4), 679-683	3	2023
HAPS for 6G Networks: Potential Use Cases, Open Challenges, and Possible Solutions O Abbasi, A Yadav, H Yanikomeroglu, ND Dao, G Senarath, P Zhu arXiv preprint arXiv:2301.08863	4	2023

TITLE	CITED BY	YEAR
Analysis of a HAPS-Aided GNSS in Urban Areas using a RAIM Algorithm H Zheng, M Atia, H Yanikomeroglu IEEE Open Journal of the Communications Society 4, 226-238	4	2023
Bit-Interleaved Coded Energy-Based Modulation with Iterative Decoding A Fazeli, HH Nguyen, H Yanikomeroglu IEEE Transactions on Communications 71 (3), 1243-1258	2	2023
Optical HAPS Eavesdropping in Vertical Heterogeneous Networks E Erdogan, OB Yahia, GK Kurt, H Yanikomeroglu IEEE Open Journal of Vehicular Technology 4, 208-216	1	2023
MOBILE COMMUNICATIONS AND NETWORKS H Alakoca, M Namdar, S Aldirmaz-Colak, M Basaran, A Basgumus, IEEE Communications Magazine, 2		2023
A unified performance analysis of cooperative NOMA with practical constraints: hardware impairment, imperfect SIC and CSI S Beddiaf, A Khelil, F Khennoufa, F Kara, H Kaya, X Li, K Rabie, IEEE Access 10, 132931-132948	10	2022
A novel tri-band antenna design for wireless LAN applications S Ahmad, H Boubakar, W Jaafar, H Yanikomeroglu 2022 IEEE Conference on Antenna Measurements and Applications (CAMA), 1-3	2	2022
Future Space Networks: Toward the Next Giant Leap for Humankind (Invited Paper) MY Abdelsadek, AU Chaudhry, T Darwish, E Erdogan, G Karabulut-Kurt, IEEE Transactions on Communications	d 18	2022
Designing a broadband MIMO antenna for next generation wireless communication systems S Ahmad, W Jaafar, H Yanikomeroglu GLOBECOM 2022-2022 IEEE Global Communications Conference, 5420-5425		2022
On the design of communication-efficient federated learning for health monitoring D Chu, W Jaafar, H Yanikomeroglu GLOBECOM 2022-2022 IEEE Global Communications Conference, 1128-1133	6	2022
A Graph-Based Customizable Handover Framework for LEO Satellite Networks M Hozayen, T Darwish, GK Kurt, H Yanikomeroglu 2022 IEEE Globecom Workshops (GC Wkshps), 868-873	2	2022
Power Allocation for a HAPS-Enabled MIMO NOMA System with Spatially Correlated Channels R Shafie, MJ Omidi, O Abbasi, H Yanikomeroglu 2022 IEEE Globecom Workshops (GC Wkshps), 1377-1382		2022
Novel low-complexity neural network aided detection for FTN signalling in IS channel A Abdelsamie, I Marsland, A Ibrahim, H Yanikomeroglu	SI 3	2022

TITLE	CITED BY	YEAR
GLOBECOM 2022-2022 IEEE Global Communications Conference, 825-830		
Beyond-cell communications via HAPS-RIS S Alfattani, A Yadav, H Yanikomeroglu, A Yongaçoglu 2022 IEEE Globecom Workshops (GC Wkshps), 1383-1388	5	2022
DeepRTSNet: Deep Robust Two-Stage Networks for ECG Denoising in Practical Use Case P Aghaomidi, A Mohammadisarab, J Mazloum, MA Akbarzadeh, M Orooji, IEEE Access 10, 128232-128249	2	2022
User selection and codebook design for NOMA-Based High Altitude Platform Station (HAPS) communications i Cumalı, B Özbek, GK Kurt, H Yanikomeroglu IEEE Transactions on Vehicular Technology 72 (3), 3636-3646	n 3	2022
On the deployment of blockchain in edge computing wireless networks W Jaafar, KJR Beyara, I Aouini, JB Abderrazak, H Yanikomeroglu 2022 IEEE 11th International Conference on Cloud Networking (CloudNet), 168-176		2022
Deep Adaptive Denoising Auto-Encoder Networks for ECG Noise Cancellation via Time-Frequency Domain A Mohammadisrab, P Aghaomidi, J Mazloum, MA Akbarzadeh, M Orooji, 2022 Asia-Pacific Signal and Information Processing Association Annual	1	2022
Metasurface Manipulation Attacks: Potential Security Threats of RIS-Aided 6G Communications H Alakoca, M Namdar, S Aldirmaz-Colak, M Basaran, A Basgumus, IEEE Communications Magazine 61 (1), 24-30	13	2022
Distributed massive MIMO for LEO satellite networks MY Abdelsadek, GK Kurt, H Yanikomeroglu IEEE Open Journal of the Communications Society 3, 2162-2177	15	2022
An Accurate Model for Computation Offloading in 6G Networks and a HAPS Based Case Study T Ovatman, GK Kurt, H Yanikomeroglu IEEE Open Journal of the Communications Society 3, 1963-1977	- 2	2022
k-Connectivity in Wireless Sensor Networks: Overview and Future Research Directions ZA Dagdeviren, VK Akram, O Dagdeviren, B Tavli, H Yanikomeroglu IEEE Network	n 3	2022
Optical Wireless Satellite Networks versus Optical Fiber Terrestrial Networks: The Latency Perspective: Invited Chapter AU Chaudhry, H Yanikomeroglu 30th Biennial Symposium on Communications 2021, 225-234	14	2022
iTUAVs: Intermittently tethered UAVs for future wireless networks N Cherif, W Jaafar, E Vinogradov, H Yanikomeroglu, S Pollin, IEEE Wireless Communications	2	2022

TITLE	CITED BY	YEAR
VHetNets for AI and AI for VHetNets: An Anomaly Detection Case Study for Ubiquitous IoT W Wang, O Abbasi, H Yanikomeroglu, C Liang, L Tang, Q Chen arXiv preprint arXiv:2210.08132	1	2022
High altitude platform station (HAPS)-aided GNSS for urban areas H Zheng, M Atia, H Yanikomeroglu 2022 IEEE International Conference on Wireless for Space and Extreme	4	2022
Satellite S Kota, G Giambene, M Abdelsadek, MS Alouini, S Babu, J Bas, 2022 IEEE Future Networks World Forum (FNWF), 1-182	2	2022
On Crossover Distance for Optical Wireless Satellite Networks and Optical Fiber Terrestrial Networks AU Chaudhry, H Yanikomeroglu 2022 IEEE Future Networks World Forum (FNWF), 480-485	1	2022
Vision-assisted user clustering for robust mmWave-NOMA systems AS Rajasekaran, HU Sokun, O Maraqa, H Yanikomeroglu, S Al-Ahmadi 2022 IEEE Future Networks World Forum (FNWF), 712-717	2	2022
Faster-than-nyquist signaling for mimo communications Z Zhang, M Yuksel, H Yanikomeroglu IEEE Transactions on Wireless Communications 22 (4), 2379-2392	7	2022
Coordinate Interleaved Faster-Than-Nyquist Signaling A Cicek, E Cavus, E Bedeer, I Marsland, H Yanikomeroglu IEEE Communications Letters 27 (1), 229-233	1	2022
Distributed Learning-Based Resource Allocation for Self-Organizing C-V2X Communication in Cellular Networks  N Banitalebi, P Azmi, N Mokari, AH Arani, H Yanikomeroglu IEEE Open Journal of the Communications Society 3, 1719-1736	3	2022
Handling interference in integrated HAPS-terrestrial networks through radio resource management AA Shamsabadi, A Yadav, O Abbasi, H Yanikomeroglu IEEE Wireless Communications Letters 11 (12), 2585-2589	6	2022
CNN-Based Detector for Spectrum Sensing With General Noise Models A Mehrabian, M Sabbaghian, H Yanikomeroglu IEEE Transactions on Wireless Communications 22 (2), 1235-1249	5	2022
Deep Learning Based Autonomous UAV-BSs for NGWNs: Overview and A Novel Architecture AM Demirtas, MS Seyfioglu, I Bor-Yaliniz, B Tavli, H Yanikomeroglu IEEE Consumer Electronics Magazine	3 *	2022
Federated Multi-Discriminator BiWGAN-GP Based Collaborative Anomaly Detection for Virtualized Network Slicing W Wang, C Liang, L Tang, H Yanikomeroglu, Q Chen	3	2022

TITLE	CITED BY	YEAR
IEEE Transactions on Mobile Computing		
Temporary laser inter-satellite links in free-space optical satellite networks AU Chaudhry, H Yanikomeroglu IEEE Open Journal of the Communications Society 3, 1413-1427	17	2022
Transmission scheme, detection and power allocation for uplink user cooperation with NOMA and RSMA O Abbasi, H Yanikomeroglu IEEE Transactions on Wireless Communications 22 (1), 471-485	12	2022
Variation approach-based nonlinear companding scheme for PAPR reduction in OFDM systems Z Xing, Y Li, AS Rajasekaran, D Peng, H Yanikomeroglu IEEE Transactions on Broadcasting 68 (4), 916-926	3	2022
A Glimpse of Physical Layer Decision Mechanisms: Facts, Challenges, and Remedies SG Cetin, C Goztepe, GK Kurt, H Yanikomeroglu IEEE Open Journal of the Communications Society 3, 1280-1294	1 *	2022
On the error performance of LoRa-enabled aerial networks over shadowed rician fading channels L Bariah, W Jaafar, S Muhaidat, H Elgala, H Yanikomeroglu IEEE Communications Letters 26 (10), 2322-2326		2022
Distributed online anomaly detection for virtualized network slicing environment W Wang, C Liang, Q Chen, L Tang, H Yanikomeroglu, T Liu IEEE Transactions on Vehicular Technology 71 (11), 12235-12249	5	2022
HAPS-ITS: Enabling future ITS services in trans-continental highways W Jaafar, H Yanikomeroglu IEEE Communications Magazine 60 (10), 80-86	7	2022
A hybrid energy harvesting protocol for cooperative noma: Error performance approach F Khennoufa, K Abdellatif, F Kara, H Kaya, X Li, K Rabie, arXiv preprint arXiv:2207.00133	1	2022
Error Analysis of Cooperative NOMA with Practical Constraints: Hardware-Impairment, Imperfect SIC and CSI B Safia, K Abdellatif, F Khennoufa, F Kara, H Kaya, X Li, K Rabie, arXiv preprint arXiv:2207.00146	1	2022
Location management in internet protocol-based future Leo satellite networks: a review T Darwish, GK Kurt, H Yanikomeroglu, G Lamontagne, M Bellemare IEEE Open Journal of the Communications Society	24 *	2022
The Digital Divide in Canada and the Role of LEO Satellites in Bridging the Gap T Ahmmed, A Alidadi, Z Zhang, AU Chaudhry, H Yanikomeroglu	26	2022

TITLE	CITED BY	YEAR
IEEE Communications Magazine 60 (6), 24-30		
Link Budget Analysis for Free-Space Optical Satellite Networks J Liang, AU Chaudhry, E Erdogan, H Yanikomeroglu 2022 IEEE 23rd International Symposium on a World of Wireless, Mobile and	14	2022
LOW EARTH ORBIT SATELLITES TO ENABLE ACCESS EQUALITY T Ahmmed, A Alidadi, Z Zhang, AU Chaudhry, H Yanikomeroglu, IEEE Communications Magazine, 2		2022
Time-switching and phase-shifting control for RIS-assisted SWIPT communications W Jaafar, L Bariah, S Muhaidat, H Yanikomeroglu IEEE Wireless Communications Letters 11 (8), 1728-1732	11	2022
Reconfigurable intelligent surfaces in action for nonterrestrial networks K Tekbıyık, GK Kurt, AR Ekti, H Yanikomeroglu IEEE Vehicular Technology Magazine 17 (3), 45-53	20	2022
Optical Satellite Eavesdropping O Ben Yahia, E Erdogan, G Karabulut Kurt, I Altunbas, H Yanikomeroglu IEEE Transactions on Vehicular Technology 71 (9), 10126-10131	11	2022
A Cell-Free Scheme for UAV Base Stations with HAPS-Assisted Backhauling in Terahertz Band O Abbasi, H Yanikomeroglu ICC 2022-IEEE International Conference on Communications, 249-254	g 5	2022
Caching and computation offloading in high altitude platform station (HAPS) assisted intelligent transportation systems Q Ren, O Abbasi, GK Kurt, H Yanikomeroglu, J Chen IEEE Transactions on Wireless Communications 21 (11), 9010-9024	30	2022
Power-time channel diversity (PTCD): A novel resource-efficient diversity technique for 6G and beyond F Kara, H Kaya, H Yanikomeroglu IEEE Wireless Communications Letters 11 (7), 1453-1457	1	2022
Enhancing UAV-based public safety networks with reconfigurable intelligent surfaces W Jaafar, L Bariah, S Muhaidat, H Yanikomeroglu Intelligent Unmanned Air Vehicles Communications for Public Safety Networks	2	2022
Error performance analysis of multiuser detection in uplink-NOMA with adaptive M-QAM H Semira, F Kara, H Kaya, H Yanikomeroglu IEEE Wireless Communications Letters 11 (8), 1654-1658	5	2022
Low-complexity decoder for overloaded uniquely decodable synchronous CDMA  M Kulhandjian, H Kulhandjian, C D'Amours, H Yanikomeroglu, DA Pados, IEEE Access 10, 46255-46275	6 *	2022

TITLE	CITED BY	YEAR
Energy efficiency maximization of full-duplex NOMA systems with improper Gaussian signaling under imperfect self-interference cancellation IA Mahady, E Bedeer, S Ikki, H Yanikomeroglu IEEE Communications Letters 26 (7), 1613-1617	4	2022
A deep learning-based approach for cell outage compensation in NOMA networks E Vaezpour, L Majzoobi, M Akbari, S Parsaeefard, H Yanikomeroglu IEEE Open Journal of Vehicular Technology 3, 149-166	6	2022
LEO satellites in 5G and beyond networks: A review from a standardization perspective T Darwish, GK Kurt, H Yanikomeroglu, M Bellemare, G Lamontagne IEEE Access 10, 35040-35060	51	2022
Authentication and handover challenges and methods for drone swarms Y Aydin, GK Kurt, E Ozdemir, H Yanikomeroglu IEEE Journal of Radio Frequency Identification 6, 220-228	14	2022
When to crossover from earth to space for lower latency data communications? AU Chaudhry, H Yanikomeroglu IEEE Transactions on Aerospace and Electronic Systems 58 (5), 3962-3978	9	2022
Toward a Smart Resource Allocation Policy via Artificial Intelligence in 6G Networks: Centralized or Decentralized?  A Nouruzi, A Rezaei, A Khalili, N Mokari, MR Javan, EA Jorswieck, arXiv preprint arXiv:2202.09093	2	2022
UxNB-Enabled Cell-Free Massive MIMO with HAPS-Assisted Sub-THz Backhauling O Abbasi, H Yanikomeroglu arXiv preprint arXiv:2201.07379	5	2022
Optimal power allocation in downlink multicarrier NOMA systems: Theory and fast algorithms S Rezvani, EA Jorswieck, R Joda, H Yanikomeroglu IEEE Journal on Selected Areas in Communications 40 (4), 1162-1189	31	2022
HAPS selection for hybrid RF/FSO satellite networks OB Yahia, E Erdogan, GK Kurt, I Altunbas, H Yanikomeroglu IEEE Transactions on Aerospace and Electronic Systems 58 (4), 2855-2867	23	2022
Optimization of quantized phase shifts for reconfigurable smart surfaces assisted communications M Rivera, M Chegini, W Jaafar, S Alfattani, H Yanikomeroglu 2022 IEEE 19th Annual Consumer Communications & Networking Conference (CCNC	5	2022
Low-density spreading design based on an algebraic scheme for NOMA systems G Millar, M Kulhandjian, A Alaca, S Alaca, C D'Amours, H Yanikomeroglu IEEE Wireless Communications Letters 11 (4), 698-702	4	2022

TITLE	CITED BY	YEAR
Cooperation in space: HAPS-aided optical inter-satellite connectivity with opportunistic scheduling E Erdogan, I Altunbas, GK Kurt, H Yanikomeroglu IEEE Communications Letters 26 (4), 882-886	10	2022
Circularly polarized dielectric resonator antenna for the terahertz band applications IE Lamri, S Ahmad, W Jaafar, M Alibakhshikenari, H Yanikomeroglu		2022
A weather-dependent hybrid RF/FSO satellite communication for improved power efficiency OB Yahia, E Erdogan, GK Kurt, I Altunbas, H Yanikomeroglu IEEE Wireless Communications Letters 11 (3), 573-577	33	2021
Low-complexity resource allocation for dense cellular vehicle-to-everything (C-V2X) communications MH Bahonar, MJ Omidi, H Yanikomeroglu IEEE Open Journal of the Communications Society 2, 2695-2713	6	2021
QoS-aware hybrid beamforming with minimal power in mmWave massive MIMO systems M Tajallifar, AR Sharafat, H Yanikomeroglu IEEE Access 9, 164668-164680	4	2021
High altitude platform station (HAPS) assisted computing for intelligent transportation systems Q Ren, O Abbasi, GK Kurt, H Yanikomeroglu, J Chen 2021 IEEE Global Communications Conference (GLOBECOM), 1-6	7	2021
UAV-based crowd surveillance in post COVID-19 era N Masmoudi, W Jaafar, S Cherif, JB Abderrazak, H Yanikomeroglu leee Access 9, 162276-162290	12	2021
Moving Aerial Anchors Assisted Network Localization PM Ghari, M Sabbaghian, H Yanikomeroglu IEEE Transactions on Wireless Communications 21 (10), 7839-7851	2	2021
The secrecy comparison of RF and FSO eavesdropping attacks in mixed RF-FSO relay networks E Erdogan, I Altunbas, GK Kurt, H Yanikomeroglu IEEE Photonics Journal 14 (1), 1-8	16	2021
A novel low complexity faster-than-Nyquist (FTN) signaling detector for ultra high-order QAM A Ibrahim, E Bedeer, H Yanikomeroglu IEEE Open Journal of the Communications Society 2, 2566-2580	18	2021
Joint Power Control, Channel Assignment and Cell Association in Heterogeneous Cellular Networks S Mohsenifard, AR Sharafat, H Yanikomeroglu arXiv preprint arXiv:2110.11121		2021

TITLE	CITED BY	YEAR
Utilizing Ground Nodes with Multi-Hop Capabilities to Extend the Range of UAV-BSs N Adam, C Tapparello, W Heinzelman, H Yanikomeroglu 2021 IEEE 4th 5G World Forum (5GWF), 123-129	1	2021
Phasing parameter analysis for satellite collision avoidance in starlink and kuiper constellations J Liang, AU Chaudhry, H Yanikomeroglu 2021 IEEE 4th 5G world forum (5GWF), 493-498	22	2021
Group authentication for drone swarms Y Aydin, GK Kurt, E Ozdemir, H Yanikomeroglu 2021 IEEE International Conference on Wireless for Space and Extreme	9	2021
Modified ARQ-based Cooperative Relaying Scheme for a Delay Tolerant Network M Otaru, A Adinoyi, M Ajiya, M Aljlayl, H Yanikomeroglu 2021 International Conference on Electrical, Computer, Communications and		2021
Reinforcement learning for energy-efficient trajectory design of UAVs AH Arani, MM Azari, P Hu, Y Zhu, H Yanikomeroglu, S Safavi-Naeini IEEE Internet of Things Journal 9 (11), 9060-9070	20	2021
Energy-efficient RIS-assisted satellites for IoT networks K Tekbıyık, GK Kurt, H Yanikomeroglu IEEE Internet of Things Journal 9 (16), 14891-14899	36	2021
Coded faster-than-nyquist signaling for short packet communications E Cerci, A Cicek, E Cavus, E Bedeer, H Yanikomeroglu 2021 IEEE 32nd Annual International Symposium on Personal, Indoor and Mobile	4	2021
Energy-efficient coverage enhancement of indoor THz-MISO systems: An FD-NOMA approach O Maraqa, AS Rajasekaran, HU Sokun, S Al-Ahmadi, H Yanikomeroglu, 2021 IEEE 32nd Annual International Symposium on Personal, Indoor and Mobile	9	2021
NETWORKING TECHNOLOGIES TO COMBAT THE COVID-19 PANDEMIC G Soldi, N Forti, D Gaglione, P Braca, LM Millefiori, S Marano, PK Willett, IEEE Communications Magazine, 2		2021
A Lightweight Machine Learning Assisted Power Optimization for Minimum Error in NOMA-CRS Over Nakagami- $m$ Channels F Kara, H Kaya, H Yanikomeroglu IEEE transactions on Vehicular Technology 70 (10), 11067-11072	6	2021
Localization threats in next-generation wireless networks C Goztepe, S Büyükçorak, GK Kurt, H Yanikomeroglu IEEE Communications Magazine 59 (9), 51-57	7	2021
3D aerial highway: The key enabler of the retail industry transformation N Cherif, W Jaafar, H Yanikomeroglu, A Yongacoglu IEEE Communications Magazine 59 (9), 65-71	32	2021

TITLE	CITED BY	YEAR
NOMA computation over multi-access channels for multimodal sensing M Kulhandjian, GK Kurt, H Kulhandjian, H Yanikomeroglu, C D'Amours IEEE Wireless Communications Letters 10 (11), 2577-2581	2	2021
Link budget analysis for reconfigurable smart surfaces in aerial platforms S Alfattani, W Jaafar, Y Hmamouche, H Yanikomeroglu, A Yongaçoglu IEEE Open Journal of the Communications Society 2, 1980-1995	38	2021
Offline and online UAV-enabled data collection in time-constrained IoT networks O Ghdiri, W Jaafar, S Alfattani, JB Abderrazak, H Yanikomeroglu IEEE Transactions on Green Communications and Networking 5 (4), 1918-1933	30	2021
Multi-user joint maximum-likelihood detection in uplink NOMA-IoT networks Removing the error floor H Semira, F Kara, H Kaya, H Yanikomeroglu IEEE Wireless Communications Letters 10 (11), 2459-2463	22	2021
A vision of self-evolving network management for future intelligent vertical HetNet T Darwish, GK Kurt, H Yanikomeroglu, G Senarath, P Zhu IEEE Wireless Communications 28 (4), 96-105	36	2021
Preserving User Privacy in Personalized Networks R Alkurd, I Abualhaol, H Yanikomeroglu IEEE Networking Letters 3 (3), 124-128	2	2021
Communication, computing, caching, and sensing for next-generation aerial delivery networks: Using a high-altitude platform station as an enabling technology GK Kurt, H Yanikomeroglu IEEE Vehicular Technology Magazine 16 (3), 108-117	24	2021
Bursty impulsive noise mitigation in NOMA: A MAP receiver-based approach MS Alam, B Selim, I Ahmed, G Kaddoum, H Yanikomeroglu IEEE Communications Letters 25 (9), 2790-2794	ז 3	2021
NOMA spectral efficiency maximization with improper Gaussian signaling and SIC imperfection IA Mahady, E Bedeer, S Ikki, H Yanikomeroglu ICC 2021-IEEE International Conference on Communications, 1-6	3	2021
User Satisfaction Prediction Framework for Personalized Wireless Networks A DNN Approach R Alkurd, I AbuAlhaol, H Yanikomeroglu 2021 IEEE International Conference on Communications Workshops (ICC	3:	2021
Disconnectivity-aware energy-efficient cargo-UAV trajectory planning with minimum handoffs N Cherif, W Jaafar, H Yanikomeroglu, A Yongacoglu ICC 2021-IEEE International Conference on Communications, 1-6	14	2021

TITLE	CITED BY	YEAR
Future ultra-dense LEO satellite networks: A cell-free massive MIMO approach MY Abdelsadek, H Yanikomeroglu, GK Kurt 2021 IEEE International Conference on Communications Workshops (ICC	24	2021
RSS-Based UAV-BS 3-D Mobility Management via Policy Gradient Deep Reinforcement Learning MG Khoshkholgh, H Yanikomeroglu ICC 2021-IEEE International Conference on Communications, 1-6	3	2021
Power Control in Spectrum Sharing Systems with Almost-Zero Inter-System Signaling Overhead MG Khoshkholgh, H Yanikorneroglu ICC 2021-IEEE International Conference on Communications, 1-6		2021
Channel estimation for full-duplex RIS-assisted HAPS backhauling with graph attention networks K Tekbıyık, GK Kurt, C Huang, AR Ekti, H Yanikomeroglu ICC 2021-IEEE International Conference on Communications, 1-6	26	2021
Approximation of Correlation Matrix for High Altitude Platform Stations A Cengiz, ST Başaran, GK Kurt, B Özbek, H Yanıkömeroğlu 2021 29th Signal Processing and Communications Applications Conference (SIU	1	2021
Physical layer security framework for optical non-terrestrial networks OB Yahia, E Erdogan, GK Kurt, I Altunbas, H Yanikomeroglu 2021 28th International Conference on Telecommunications (ICT), 162-166	10	2021
MRIRS: Mobile ad hoc routing assisted with intelligent reflecting surfaces Z Sadreddini, E Güler, M Khalily, H Yanikomeroglu IEEE Transactions on Cognitive Communications and Networking 7 (4), 1333-1346	13	2021
An efficient 3-D positioning approach to minimize required UAVs for IoT network coverage Z Rahimi, MJ Sobouti, R Ghanbari, SAH Seno, AH Mohajerzadeh, IEEE Internet of Things Journal 9 (1), 558-571	23	2021
BER Performance Comparison of AF and DF Assisted Relay Selection Schemes in Cooperative NOMA Systems I Umakoglu, M Namdar, A Basgumus, F Kara, H Kaya, H Yanikomeroglu 2021 IEEE International Black Sea Conference on Communications and	10	2021
Interplay between NOMA and GSSK: Detection strategies and performance analysis S Gurugopinath, S Muhaidat, R Kishore, PC Sofotasios, FE Bouanani, arXiv preprint arXiv:2105.11186	1	2021
Securing the inter-spacecraft links: Physical layer key generation from Doppler frequency shift OA Topal, GK Kurt, H Yanikomeroglu IEEE Journal of Radio Frequency Identification 5 (3), 232-243	9	2021

TITLE	CITED BY	YEAR
Deep learning empowered semi-blind joint detection in cooperative NOMA A Emir, F Kara, H Kaya, H Yanikomeroglu IEEE Access 9, 61832-61852	16	2021
A hybrid companding and clipping scheme for PAPR reduction in OFDM systems Z Xing, K Liu, AS Rajasekaran, H Yanikomeroglu, Y Liu IEEE Access 9, 61565-61576	26	2021
A novel low complexity faster-than-Nyquist signaling detector based on the primal-dual predictor-corrector interior point method A Ibrahim, E Bedeer, H Yanikomeroglu IEEE Communications Letters 25 (7), 2370-2374	10	2021
Spectrum sensing for symmetric α-stable noise model with convolutional neural networks A Mehrabian, M Sabbaghian, H Yanikomeroglu IEEE Transactions on Communications 69 (8), 5121-5135	10	2021
Game Theoretical Approaches for Cooperative UAV NOMA Networks Z Sadreddini, H Yanikomeroglu IEEE WIRELESS COMMUNICATIONS 28 (2), 166-171		2021
Laser intersatellite links in a starlink constellation: A classification and analysis AU Chaudhry, H Yanikomeroglu IEEE Vehicular Technology Magazine 16 (2), 48-56	107	2021
Graph attention networks for channel estimation in RIS-assisted satellite IoT communications K Tekbıyık, GK Kurt, AR Ekti, H Yanikomeroglu arXiv preprint arXiv:2104.00735	7	2021
Rate-splitting and NOMA-enabled uplink user cooperation O Abbasi, H Yanikomeroglu 2021 IEEE Wireless Communications and Networking Conference Workshops (WCNCW	. 11	2021
Placement optimization of multiple UAV base stations N Adam, C Tapparello, W Heinzelman, H Yanikomeroglu 2021 IEEE Wireless Communications and Networking Conference (WCNC), 1-7	10	2021
Intelligent reflecting surfaces assisted UAV communications for IoT networks: Performance analysis A Mahmoud, S Muhaidat, PC Sofotasios, I Abualhaol, OA Dobre, IEEE Transactions on Green Communications and Networking 5 (3), 1029-1040	83	2021
Group handover for drone base stations Y Aydin, GK Kurt, E Ozdemir, H Yanikomeroglu IEEE Internet of Things Journal 8 (18), 13876-13887	22	2021
A Novel Centralized Cloud-Based Mobile Data Rollover Management Z Sadreddini, H Yanikomeroglu		2021

TITLE	CITED BY	YEAR
IEEE Wireless Communications 28 (2), 166-171		
A vision and framework for the high altitude platform station (HAPS) networks of the future GK Kurt, MG Khoshkholgh, S Alfattani, A Ibrahim, TSJ Darwish, MS Alam, IEEE Communications Surveys & Tutorials 23 (2), 729-779	266	2021
New trends in stochastic geometry for wireless networks: A tutorial and survey Y Hmamouche, M Benjillali, S Saoudi, H Yanikomeroglu, M Di Renzo Proceedings of the IEEE 109 (7), 1200-1252	82	2021
Composite fading model for aerial MIMO FSO links in the presence of atmospheric turbulence and pointing errors HS Khallaf, K Kato, EM Mohamed, SM Sait, H Yanikomeroglu, M Uysal IEEE Wireless Communications Letters 10 (6), 1295-1299	11	2021
Cancel-for-Any-Reason Insurance Recommendation Using Customer Transaction-Based Clustering Z Sadreddini, I Donmez, H Yanikomeroglu IEEE Access 9, 39363-39374	4	2021
Intracell frequency band exiling for green wireless networks: Implementation performance metrics, and use cases AB Ozyurt, M Basaran, M Ardanuc, L Durak-Ata, H Yanikomeroglu IEEE Vehicular Technology Magazine 16 (2), 31-39	n, 6	2021
Robust resource allocation for cooperative MISO-NOMA-based heterogeneous networks A Rezaei, P Azmi, NM Yamchi, MR Javan, H Yanikomeroglu IEEE Transactions on Communications 69 (6), 3864-3878	18	2021
INTERNET OF THINGS AND SENSOR NETWORKS N Jiang, Y Deng, A Nallanathan, CE Kement, B Tavli, H Gultekin, IEEE Communications Magazine, 2		2021
Holistic privacy for electricity, water, and natural gas metering in next generation smart homes CE Kement, B Tavli, H Gultekin, H Yanikomeroglu IEEE Communications Magazine 59 (3), 24-29	6	2021
An agile and distributed mechanism for inter-domain network slicing in next generation mobile networks J Khamse-Ashari, G Senarath, I Bor-Yaliniz, H Yanikomeroglu IEEE Transactions on Mobile Computing 21 (10), 3486-3501	16	2021
DeepMuD: Multi-user detection for uplink grant-free NOMA IoT networks via deep learning A Emir, F Kara, H Kaya, H Yanikomeroglu IEEE Wireless Communications Letters 10 (5), 1133-1137	a 35	2021
Site diversity in downlink optical satellite networks through ground station selection	49	2021

TITLE	CITED BY	YEAR
E Erdogan, I Altunbas, GK Kurt, M Bellemare, G Lamontagne, IEEE Access 9, 31179-31190		
Data-Oriented View for Convolutional Coding With Adaptive Irregular Constellations	1	2021
MC Ilter, R Wichman, J Hämäläinen, H Yanikomeroglu, HC Yang IEEE Communications Letters 25 (6), 1771-1775		
HARQ in full-duplex relay-assisted transmissions for URLLC FE Airod, H Chafnaji, H Yanikomeroglu IEEE Open Journal of the Communications Society 2, 409-422	12	2021
Yüksek irtifa platform istasyonları için korelasyon matrisinin yaklaşımı A Cengiz, S Tedik Başaran, G Karabulut Kurt, B Özbek, H Yanıkömeroğlu SIU 2021-29th IEEE Conference on Signal Processing and Communications		2021
High altitude platform station based super macro base station constellations MS Alam, GK Kurt, H Yanikomeroglu, P Zhu, ND Đào IEEE Communications Magazine 59 (1), 103-109	107	2021
Aerial platforms with reconfigurable smart surfaces for 5G and beyond S Alfattani, W Jaafar, Y Hmamouche, H Yanikomeroglu, A Yongaçoglu, IEEE Communications Magazine 59 (1), 96-102	79	2021
Dynamics of laser-charged UAVs: A battery perspective W Jaafar, H Yanikomeroglu IEEE Internet of Things Journal 8 (13), 10573-10582	48	2020
Transfer reinforcement learning for 5G new radio mmWave networks M Elsayed, M Erol-Kantarci, H Yanikomeroglu IEEE Transactions on Wireless Communications 20 (5), 2838-2849	30	2020
A cognitive radio enabled RF/FSO communication model for aerial relay networks: Possible configurations and opportunities E Erdogan, I Altunbas, N Kabaoglu, H Yanikomeroglu IEEE Open Journal of Vehicular Technology 2, 45-53	17	2020
Faded-Experience Trust Region Policy Optimization for Model-Free Power Allocation in Interference Channel MG Khoshkholgh, H Yanikomeroglu IEEE Wireless Communications Letters 10 (3), 659-663	4	2020
Energy-efficient multi-UAV data collection for IoT networks with time deadlines O Ghdiri, W Jaafar, S Alfattani, JB Abderrazak, H Yanikomeroglu GLOBECOM 2020-2020 IEEE Global Communications Conference, 1-6	28	2020
On the optimal 3D placement of a UAV base station for maximal coverage of UAV users  N Cherif, W Jaafar, H Yanikomeroglu, A Yongacoglu GLOBECOM 2020-2020 IEEE Global Communications Conference, 1-6	f 37	2020

TITLE	CITED BY	YEAR
A blockchain-based authentication and key agreement (AKA) protocol for 50 networks M Hojjati, A Shafieinejad, H Yanikomeroglu IEEE Access 8, 216461-216476	35	2020
Wireless Access Architecture: The Next 20+ Years H Yanikomeroglu Proceedings of the 4th International Conference on Future Networks and		2020
A holistic investigation of terahertz propagation and channel modeling toward vertical heterogeneous networks K Tekbiyik, AR Ekti, GK Kurt, A Gorcin, H Yanikomeroglu IEEE Communications Magazine 58 (11), 14-20	45	2020
User clustering in mmWave-NOMA systems with user decoding capability constraints for B5G networks AS Rajasekaran, O Maraqa, HU Sokun, H Yanikomeroglu, S Al-Ahmadi IEEE Access 8, 209949-209963	12	2020
Dynamic NOMA/OMA for V2X networks with UAV relaying O Abbasi, H Yanikomeroglu, A Ebrahimi, N Mokari, M Alzenad 2020 IEEE 92nd Vehicular Technology Conference (VTC2020-Fall), 1-7	2	2020
User persona in personalized wireless networks: A big data-driven prediction framework R Alkurd, I AbuAlhaol, H Yanikomeroglu 2020 IEEE 92nd Vehicular Technology Conference (VTC2020-Fall), 1-7	າ 3	2020
On the downlink performance of RSMA-based UAV communications W Jaafar, S Naser, S Muhaidat, PC Sofotasios, H Yanikomeroglu IEEE Transactions on Vehicular Technology 69 (12), 16258-16263	43	2020
Downlink coverage and rate analysis of an aerial user in vertical heterogeneous networks (VHetNets) N Cherif, M Alzenad, H Yanikomeroglu, A Yongacoglu IEEE Transactions on Wireless Communications 20 (3), 1501-1516	57 *	2020
Learning power control from a fixed batch of data MG Khoshkholgh, H Yanikomeroglu IEEE Wireless Communications Letters 10 (3), 512-516	2	2020
Multiple access in aerial networks: From orthogonal and non-orthogonal to rate-splitting W Jaafar, S Naser, S Muhaidat, PC Sofotasios, H Yanikomeroglu IEEE Open Journal of Vehicular Technology 1, 372-392	63	2020
Hypercube-based SNR-adaptive multidimensional constellation design for uplink SCMA systems M Vameghestahbanati, ID Marsland, RH Gohary, H Yanikomeroglu IEEE Transactions on Communications 69 (1), 121-132	3	2020
An analysis of a stochastic on-off queueing mobility model for software-defined vehicle networks	10	2020

TITLE	CITED BY	YEAR
TA Edwan, A Tahat, H Yanikomeroglu, J Crowcroft IEEE Transactions on Mobile Computing 21 (5), 1552-1565		
Securing the inter-spacecraft links: Doppler frequency shift based physical layer key generation OA Topal, GK Kurt, H Yanikomeroglu 2020 IEEE International Conference on Wireless for Space and Extreme	8	2020
Free space optics for next-generation satellite networks AU Chaudhry, H Yanikomeroglu IEEE Consumer Electronics Magazine 10 (6), 21-31	95	2020
Low Complexity Soft-Output Faster-than-Nyquist Detector Based on Semidefinite Relaxation A Cicek, E Cavus, E Bedeer, H Yanikomeroglu arXiv preprint arXiv:2009.06128		2020
Uplink coverage and handoff rate with realistic power control models and blind cell search Y Hmamouche, M Benjillali, S Saoudi, H Yanikomeroglu 2020 IEEE 31st Annual International Symposium on Personal, Indoor and Mobile	1	2020
A prospective look: Key enabling technologies, applications and open research topics in 6G networks L Bariah, L Mohjazi, S Muhaidat, PC Sofotasios, GK Kurt, IEEE access 8, 174792-174820	256	2020
Backhaul-aware optimization of UAV base station location and bandwidth allocation for profit maximization CT Cicek, H Gultekin, B Tavli, H Yanikomeroglu IEEE Access 8, 154573-154588	53	* 2020
An application-driven nonorthogonal-multiple-access-enabled computation offloading scheme Q Ren, J Chen, O Abbasi, GK Kurt, H Yanikomeroglu, FR Yu IEEE Internet of Things Journal 8 (3), 1453-1466	10	2020
Personalized resource allocation in wireless networks: An Al-enabled and big data-driven multi-objective optimization R Alkurd, IY Abualhaol, H Yanikomeroglu IEEE Access 8, 144592-144609	16	2020
A survey of rate-optimal power domain NOMA with enabling technologies of future wireless networks O Maraqa, AS Rajasekaran, S Al-Ahmadi, H Yanikomeroglu, SM Sait IEEE Communications Surveys & Tutorials 22 (4), 2192-2235	f 324	2020
Wireless networks with cache-enabled and backhaul-limited aerial base stations E Kalantari, H Yanikomeroglu, A Yongacoglu IEEE Transactions on Wireless Communications 19 (11), 7363-7376	26	2020

TITLE	CITED BY	YEAR
Trajectory design and power allocation for drone-assisted NR-V2X network with dynamic NOMA/OMA O Abbasi, H Yanikomeroglu, A Ebrahimi, NM Yamchi IEEE Transactions on Wireless Communications 19 (11), 7153-7168	34	2020
Reconfigurable intelligent surface empowered terahertz communication for LEO satellite networks K Tekbıyık, GK Kurt, AR Ekti, A Görçin, H Yanikomeroglu arXiv preprint arXiv:2007.04281	59 *	2020
A flexible and lightweight group authentication scheme Y Aydin, GK Kurt, E Ozdemir, H Yanikomeroglu IEEE internet of things Journal 7 (10), 10277-10287	44	2020
Aerial Access Nodes and Virtual Wireless Access: A Look into Integration Strategies I Bor-Yaliniz, G Senarath, H Yanikomeroglu ICC 2020-2020 IEEE International Conference on Communications (ICC), 1-6		2020
Hypercube-based multidimensional constellation design for uplink SCMA systems M Vameghestahbanati, I Marsland, RH Gohary, H Yanikomeroglu 2020 IEEE International Conference on Communications Workshops (ICC	6	2020
Optimal Location of Cellular Base Station via Convex Optimization E Kalantari, S Loyka, H Yanikomeroglu, A Yongacoglu 2020 IEEE International Black Sea Conference on Communications and		2020
How does channel coding affect the design of uplink SCMA multidimensional constellations?  M Vameghestahbanati, I Marsland, RH Gohary, H Yanikomeroglu, 2020 IEEE Wireless Communications and Networking Conference (WCNC), 1-6	al 6	2020
Polar coded faster-than-Nyquist (FTN) signaling with symbol-by-symbol detection A Caglan, A Cicek, E Cavus, E Bedeer, H Yanikomeroglu 2020 IEEE Wireless Communications and Networking Conference (WCNC), 1-5	8	2020
3D-MIMO dual communications in SCMA-based secure HetNets MR Abedi, MR Javan, NM Yamchi, H Yanikomeroglu IEEE Transactions on Vehicular Technology 69 (8), 8499-8513	4	2020
Non-orthogonal multiple access in the presence of additive generalized Gaussian noise L Bariah, S Muhaidat, PC Sofotasios, S Gurugopinath, W Hamouda, IEEE Communications Letters 24 (10), 2137-2141	11	2020
Method for determining an encoding scheme and symbol mapping I Marsland, R Balogun, R Gohary, H Yanikomeroglu, ND Dao, US Patent 10,623,142	15	2020
Big-data-driven and Al-based framework to enable personalization in wireless networks	21	2020

TITLE	CITED BY	YEAR
R Alkurd, I Abualhaol, H Yanikomeroglu IEEE Communications Magazine 58 (3), 18-24		
Beamforming for maximal coverage in mmWave drones: A reinforcement learning approach H Vaezy, MSH Abad, O Ercetin, H Yanikomeroglu, MJ Omidi, MM Naghsh IEEE Communications Letters 24 (5), 1033-1037	25	2020
Mobility-assisted over-the-air computation for backscatter sensor networks A Farajzadeh, O Ercetin, H Yanikomeroglu IEEE Wireless Communications Letters 9 (5), 675-678	16	2020
Low-complexity detection for faster-than-Nyquist signaling based on probabilistic data association  M Kulhandjian, E Bedeer, H Kulhandjian, C D'Amours, H Yanikomeroglu IEEE Communications Letters 24 (4), 762-766	15	2019
Liberalization of digital twins of IoT-enabled home appliances via blockchains and absolute ownership rights C Altun, B Tavli, H Yanikomeroglu IEEE Communications Magazine 57 (12), 65-71	36	2019
Downlink coverage analysis of an aerial user in vertical heterogeneous networks  N Cherif, M Alzenad, H Yanikomeroglu, A Yongacoglu 2019 IEEE Global Communications Conference (GLOBECOM), 1-6	8	2019
Multi-UAV data collection framework for wireless sensor networks S Alfattani, W Jaafar, H Yanikomeroglu, A Yongacoglu 2019 IEEE Global Communications Conference (GLOBECOM), 1-6	43	2019
An ARQ-based cooperative relaying scheme for 5G IoT slice M Otaru, M Ajiya, A Adinoyi, M Aljlayl, H Yanikomeroglu 2019 IEEE Global Conference on Internet of Things (GCIoT), 1-5	2	2019
On the error probability of cognitive RF-FSO relay networks over Rayleigh/EW fading channels with primary-secondary interference E Erdogan, N Kabaoglu, I Altunbas, H Yanikomeroglu IEEE Photonics Journal 12 (1), 1-13	26	2019
System and method for random access J Dang, H Yanikomeroglu, NG Senarath US Patent 10,476,834	4	2019
Resource allocation-based PAPR analysis in uplink SCMA-OFDM systems AS Rajasekaran, M Vameghestahbanati, M Farsi, H Yanikomeroglu, IEEE Access 7, 162803-162817	33	2019
Optimal altitude selection of aerial base stations to maximize coverage and energy harvesting probabilities: A stochastic geometry analysis S Enayati, H Saeedi, H Pishro-Nik, H Yanikomeroglu IEEE Transactions on Vehicular Technology 69 (1), 1096-1100	9	2019

TITLE	CITED BY	YEAR
Cellular V2X transmission for connected and autonomous vehicles standardization, applications, and enabling technologies H Abou-Zeid, F Pervez, A Adinoyi, M Aljlayl, H Yanikomeroglu IEEE Consumer Electronics Magazine 8 (6), 91-98	46	2019
System and method for utilizing multidimensional constellations H Khoshnevis, I Marsland, H Yanikomeroglu, ND Dao, NG Senarath US Patent 10,433,187		2019
Coverage and rate analysis for vertical heterogeneous networks (VHetNets) M Alzenad, H Yanikomeroglu IEEE Transactions on Wireless Communications 18 (12), 5643-5657	105	2019
Dual communications in MIMO SCMA-based secure HetNets MR Abedi, MR Javan, N Mokari, H Yanikomeroglu 2019 IEEE 30th Annual International Symposium on Personal, Indoor and Mobile	2	2019
The joint impact of fading severity, irregular constellation, and non-Gaussian noise on signal space diversity-based relaying networks MC llter, HU Sokun, H Yanikomeroglu, R Wichman, J Hämäläinen IEEE Access 7, 116162-116171	2	2019
A novel SD-based detection for generalized SCMA constellations M Vameghestahbanati, I Marsland, RH Gohary, H Yanikomeroglu IEEE Transactions on Vehicular Technology 68 (10), 10278-10282	18	2019
Joint radio resource allocation and 3D beam-forming in MISO-NOMA-based network with profit maximization for mobile virtual network operators A Zakeri, N Mokari, H Yanikomeroglu arXiv preprint arXiv:1907.05161	2	2019
Cooperative multi-bitrate video caching and transcoding in multicarrier NOMA-assisted heterogeneous virtualized MEC networks S Rezvani, S Parsaeefard, N Mokari, MR Javan, H Yanikomeroglu IEEE Access 7, 93511-93536	18	2019
Profit maximization in 5G+ networks with heterogeneous aerial and ground base stations A Azizi, S Parsaeefard, MR Javan, N Mokari, H Yanikomeroglu IEEE Transactions on Mobile Computing 19 (10), 2445-2460	16	2019
A New Meta-heuristic Approach for 3D Placement of Multiple Unmanned Aerial Vehicle Base Stations In Wireless Networks R Özdağ, H Yanikomeroglu Proceedings Book, 64	3	2019
Optimal TAS for cross-interference mitigation in cognitive MIMO MRC systems Z El-Moutaouakkil, K Tourki, S Saoudi, H Yanikomeroglu 2019 15th International Wireless Communications & Mobile Computing	2	2019
Key Performance Indicators in Multidimensional Constellations for Uplink SCMA Systems		2019

TITLE	CITED BY	YEAR
M Vameghestahbanati, I Marsland, RH Gohary, H Yanikomeroglu 2019 16th Canadian Workshop on Information Theory (CWIT), 1-6		
System and method for wireless load balancing R Schoenen, Z Wang, H Yanikomeroglu, NG Senarath, ND Dao US Patent 10,306,515	1	2019
Future of ultra-dense networks beyond 5G: Harnessing heterogeneous moving cells S Andreev, V Petrov, M Dohler, H Yanikomeroglu IEEE Communications Magazine 57 (6), 86-92	130	2019
Space—time signal design for multilevel polar coding in slow fading broadcast channels H Khoshnevis, I Marsland, H Jafarkhani, H Yanikomeroglu IEEE Transactions on Communications 67 (9), 5940-5952	3	2019
UAV data collection over NOMA backscatter networks: UAV altitude and trajectory optimization A Farajzadeh, O Ercetin, H Yanikomeroglu ICC 2019-2019 IEEE International Conference on Communications (ICC), 1-7	82	2019
How do non-ideal UAV antennas affect air-to-ground communications? MG Khoshkholgh, K Navaie, H Yanikomeroglu, VCM Leung, KG Shin ICC 2019-2019 IEEE International Conference on Communications (ICC), 1-7	6	2019
Coverage performance of aerial-terrestrial HetNets MG Khoshkholgh, K Navaie, H Yanikomeroglu, VCM Leung, KG Shin 2019 IEEE 89th Vehicular Technology Conference (VTC2019-Spring), 1-5	15	2019
Energy efficient transceiver design in MIMO interference channels: The selfish, unselfish, worst-case, and robust methods H Vaezy, MJ Omidi, MM Naghsh, H Yanikomeroglu IEEE Transactions on Communications 67 (8), 5377-5389	7	2019
Fast decoder for overloaded uniquely decodable synchronous optical CDMA M Kulhandjian, H Kulhandjian, C D'Amours, H Yanikomeroglu, 2019 IEEE Wireless Communications and Networking Conference (WCNC), 1-7	<b>A</b> 6	2019
Randomized caching in cooperative UAV-enabled fog-RAN MG Khoshkholgh, K Navaie, H Yanikomeroglu, VCM Leung, KG Shin 2019 IEEE Wireless Communications and Networking Conference (WCNC), 1-6	17	2019
Caching or no caching in dense HetNets? MG Khoshkholgh, K Navaie, KG Shin, VCM Leung, H Yanikomeroglu 2019 IEEE Wireless Communications and Networking Conference (WCNC), 1-7	3	2019
Low-complexity detection of M-ary PSK faster-than-Nyquist signaling E Bedeer, H Yanikomeroglu, MH Ahmed 2019 IEEE Wireless Communications and Networking Conference Workshop (WCNCW	9	2019
Multidimensional constellations for uplink SCMA systems—A comparative study M Vameghestahbanati, ID Marsland, RH Gohary, H Yanikomeroglu	120	2019

TITLE	CITED BY	YEAR
IEEE Communications Surveys & Tutorials 21 (3), 2169-2194		
Moving aerial base station networks: A stochastic geometry analysis and design perspective S Enayati, H Saeedi, H Pishro-Nik, H Yanikomeroglu IEEE Transactions on Wireless Communications 18 (6), 2977-2988	73	2019
System and method for providing adaptive synchronization of LTE communication systems H Yanikomeroglu, A El-Keyi, O Ureten, TN Yensen US Patent 10,219,234	1	2019
Is 5G ready for drones: A look into contemporary and prospective wireless networks from a standardization perspective I Bor-Yaliniz, M Salem, G Senerath, H Yanikomeroglu IEEE Wireless Communications 26 (1), 18-27	112	2019
UAV base station location optimization for next generation wireless networks: Overview and future research directions CT Cicek, H Gultekin, B Tavli, H Yanikomeroglu 2019 1st International Conference on Unmanned Vehicle Systems-Oman (UVS), 1-6	115	2019
Sum-rate maximization of NOMA systems under imperfect successive interference cancellation IA Mahady, E Bedeer, S Ikki, H Yanikomeroglu IEEE Communications Letters 23 (3), 474-477	111	2019
Noncoherent MIMO signaling for block-fading channels: Approaches and challenges RH Gohary, H Yanikomeroglu ieee vehicular technology magazine 14 (1), 80-88	22	2019
A synthetic user behavior dataset design for data-driven Al-based personalized wireless networks R Alkurd, I AbuAlhaol, H Yanikomeroglu 2019 IEEE International Conference on Communications Workshops (ICC	9	2019
Dataset Modeling for Data-Driven AI-Based Personalized Wireless Network R Alkurd, I AbuAlhaol, H Yanikomeroglu ICC 2019 - 2019 IEEE International Conference on Communications (ICC	S	2019
Q-learning based aerial base station placement for fairness enhancement in mobile networks yanikomeroglu ghanavi, sabbaghian IEEE Global Conference on Signal Processing and Information Processing	1 4	* 2019
Coverage and rate analysis for unmanned aerial vehicle base stations with LoS/NLoS propagation M Alzenad, H Yanikomeroglu 2018 IEEE Globecom Workshops (GC Wkshps), 1-7	55	2018
Signal space cognitive cooperation E Erdogan, A Afana, HU Sokun, S Ikki, L Durak-Ata, H Yanikomeroglu	5	2018

TITLE	CITED BY	YEAR
IEEE Transactions on Vehicular Technology 68 (2), 1953-1957		
When IoT keeps people in the loop: A path towards a new global utility V Petrov, K Mikhaylov, D Moltchanov, S Andreev, G Fodor, J Torsner, IEEE Communications Magazine 57 (1), 114-121	56	2018
Energy efficient precoder in multi-user MIMO systems with imperfect channel state information H Vaezy, MJ Omidi, H Yanikomeroglu IEEE Wireless Communications Letters 8 (3), 669-672	el 5	2018
Throughput-based design for polar-coded modulation H Khoshnevis, I Marsland, H Yanikomeroglu IEEE Transactions on Communications 67 (3), 1770-1782	14	2018
Connected and autonomous driving J Tian, A Chin, H Yanikomeroglu IT Professional 20 (6), 31-34	13	2018
Integrated terrestrial/non-terrestrial 6G networks for ubiquitous 3D super- connectivity H Yanikomeroglu Proceedings of the 21st ACM International Conference on Modeling, Analysis	26	2018
Spatial configuration of agile wireless networks with drone-BSs and user-in-the-loop I Bor-Yaliniz, A El-Keyi, H Yanikomeroglu IEEE Transactions on Wireless Communications 18 (2), 753-768	46	2018
Underlay drone cell for temporary events: Impact of drone height and aerial channel environments X Zhou, S Durrani, J Guo, H Yanikomeroglu IEEE Internet of Things Journal 6 (2), 1704-1718	46	2018
Guest editorial airborne communication networks X Cao, SL Kim, K Obraczka, CX Wang, DO Wu, H Yanikomeroglu IEEE Journal on Selected Areas in Communications 36 (9), 1903-1906	9	2018
Backscatter communications with NOMA J Guo, X Zhou, S Durrani, H Yanikomeroglu 2018 15th International Symposium on Wireless Communication Systems (ISWCS), 1-5	11	2018
Design of non-orthogonal multiple access enhanced backscatter communication  J Guo, X Zhou, S Durrani, H Yanikomeroglu  IEEE Transactions on Wireless Communications 17 (10), 6837-6852	92	2018
Airborne communication networks: A survey X Cao, P Yang, M Alzenad, X Xi, D Wu, H Yanikomeroglu IEEE Journal on Selected Areas in Communications 36 (9), 1907-1926	299	2018
A Convolutionally Encoded OSTBC System with SNR-Adaptive Constellations for Low-Latency and Low-Complexity Communications		2018

TITLE	CITED BY	YEAR
MC Ilter, R Wichman, J Hämäläinen, H Yanikomeroglu 2018 IEEE 19th International Workshop on Signal Processing Advances in		
Convolutionally coded SNR-adaptive transmission for low-latency communications MC Ilter, H Yanikomeroglu IEEE Transactions on Vehicular Technology 67 (9), 8964-8968	6	2018
System and method for user terminal-aware cell switch-off I Aydin, ND Dao, NG Senarath, H Yanikomeroglu US Patent 9,980,218	4	2018
Effects of blockage in deploying mmWave drone base stations for 5G networks and beyond M Gapeyenko, I Bor-Yaliniz, S Andreev, H Yanikomeroglu, Y Koucheryavy 2018 IEEE international conference on communications workshops (icc	57	2018
Uplink coverage performance of an underlay drone cell for temporary events X Zhou, J Guo, S Durrani, H Yanikomeroglu 2018 IEEE International Conference on Communications Workshops (ICC	39	2018
TAS strategies for incremental cognitive MIMO relaying: New results and accurate comparison Z El-Moutaouakkil, K Tourki, H Yanikomeroglu, S Saoudi IEEE Access 6, 23480-23499	8	2018
Performance analysis of Fisher-Snedecor F composite fading channels T Aldalgamouni, MC Ilter, OS Badarneh, H Yanikomeroglu 2018 IEEE Middle East and North Africa Communications Conference (MENACOMM), 1-5	28	2018
Fairness-oriented resource allocation for energy efficiency optimization in uplink OFDMA networks HU Sokun, E Bedeer, RH Gohary, H Yanikomeroglu 2018 IEEE Wireless Communications and Networking Conference (WCNC), 1-6	7	2018
Performance analysis of low latency multiple full-duplex selective decode and forward relays FE Airod, H Chafnaji, H Yanikomeroglu 2018 IEEE Wireless Communications and Networking Conference (WCNC), 1-6	6	2018
Efficient 3D aerial base station placement considering users mobility by reinforcement learning R Ghanavi, E Kalantari, M Sabbaghian, H Yanikomeroglu, A Yongacoglu 2018 IEEE Wireless Communications and Networking Conference (WCNC), 1-6	135	2018
Conjoint routing and resource allocation in OFDMA-based D2D wireless networks R Rashtchi, RH Gohary, H Yanikomeroglu IEEE Access 6, 18868-18882	4	2018
Chinese remainder theorem-based sequence design for resource block assignment in relay-assisted Internet-of-Things communications YMM Fouad, RH Gohary, H Yanikomeroglu	5	2018

TITLE	CITED BY	YEAR
IEEE Transactions on Wireless Communications 17 (5), 3401-3416		
System and method for charging services using effective quanta units R Schoenen, H Yanikomeroglu US Patent 9,911,106	5	2018
Sector and site switch-off regular patterns for energy saving in cellular networks T Beitelmal, SS Szyszkowicz, DG González, H Yanikomeroglu IEEE Transactions on Wireless Communications 17 (5), 2932-2945	18	2018
Measurement-Based Path Loss and Delay Spread Propagation Models in VHF/UHF Bands for IoT Communications EB Mohamed, J Pugh, C Brown, H Yanikomeroglu 2017 IEEE 86th Vehicular Technology Conference (VTC-Fall)		2018
Admission Control of Wireless Virtual Networks in H et H et N ets M Mirahsan, G Senarath, H Farmanbar, ND Dao, H Yanikomeroglu IEEE Transactions on Vehicular Technology 67 (5), 4565-4576	8	2018
FSO-based vertical backhaul/fronthaul framework for 5G+ wireless network M Alzenad, MZ Shakir, H Yanikomeroglu, MS Alouini IEEE Communications Magazine 56 (1), 218-224	s 496	2018
Joint power allocation and constellation design for cognitive radio systems T Aldalgamouni, MC Ilter, H Yanikomeroglu IEEE Transactions on Vehicular Technology 67 (5), 4661-4665	5	2018
A novel self-interference cancellation scheme for channel-unaware differential space-time two-way relay networks S Bameri, S Talebi, RH Gohary, H Yanikomeroglu IEEE Transactions on Wireless Communications 17 (2), 1226-1241	8	2017
Strategic densification with UAV-BSs in cellular networks F Lagum, I Bor-Yaliniz, H Yanikomeroglu IEEE Wireless Communications Letters 7 (3), 384-387	111	2017
Machine-type communication with random access and data aggregation: A stochastic geometry approach J Guo, S Durrani, X Zhou, H Yanikomeroglu GLOBECOM 2017-2017 IEEE Global Communications Conference, 1-7	1	2017
Environment-aware drone-base-station placements in modern metropolitan I Bor-Yaliniz, SS Szyszkowicz, H Yanikomeroglu IEEE Wireless Communications Letters 7 (3), 372-375	s 62	2017
Design of High-SNR Multidimensional Constellations for Orthogonal Transmission in a Nakagami- $m$ Fading Channel H Khoshnevis, I Marsland, H Yanikomeroglu IEEE Access 5, 26623-26638	7	2017
Polar code design for irregular multidimensional constellations PR Balogun, ID Marsland, RH Gohary, H Yanikomeroglu	15	2017

TITLE	CITED BY	YEAR
IEEE Access 5, 21941-21953		
Revisiting error analysis in convolutionally coded systems: The irregular constellation case MC Ilter, PA Dmochowski, H Yanikomeroglu IEEE Transactions on Communications 66 (2), 465-477	9	2017
Joint optimization of polar codes and STBCs H Khoshnevis, I Marsland, H Jafarkhani, H Yanikomeroglu 2017 IEEE 28th Annual International Symposium on Personal, Indoor, and		2017
Polar coded multi-antenna multidimensional constellations in partially coherent channels H Khoshnevis, I Marsland, H Yanikomeroglu 2017 IEEE 28th Annual International Symposium on Personal, Indoor, and	1	2017
Efficient resource allocation for video streaming for 5G network-to-vehicle communications F Pervez, A Adinoyi, H Yanikomeroglu 2017 IEEE 28th Annual International Symposium on Personal, Indoor, and	18	2017
A novel probabilistic path loss model for simulating coexistence between 802.11 and 802.15. 4 networks in smart home environments A El-Keyi, HU Sokun, TN Nguyen, Q Ye, HJ Zhu, H Yanikomeroglu 2017 IEEE 28th Annual International Symposium on Personal, Indoor, and	9	2017
User association and bandwidth allocation for terrestrial and aerial base stations with backhaul considerations E Kalantari, I Bor-Yaliniz, A Yongacoglu, H Yanikomeroglu 2017 IEEE 28th Annual International Symposium on Personal, Indoor, and	126	2017
Underlay D2D Communication in a Finite Cellular Network with Exclusion Zone J Guo, S Durrani, X Zhou, H Yanikomeroglu 2017 IEEE 86th Vehicular Technology Conference (VTC-Fall), 1-7		2017
Throughput-based design of polar codes H Khoshnevis, I Marsland, H Yanikomeroglu 2017 IEEE 86th Vehicular Technology Conference (VTC-Fall), 1-5	1	2017
LTE physical-layer identity detection in the presence of jamming A El-Keyi, O Uereten, T Yensen, H Yanikomeroglu 2017 IEEE 86th Vehicular Technology Conference (VTC-Fall), 1-6	5	2017
Polar codes for SCMA systems M Vameghestahbanati, I Marsland, RH Gohary, H Yanikomeroglu 2017 IEEE 86th Vehicular Technology Conference (VTC-Fall), 1-5	13	2017
Measurement-based path loss and delay spread propagation models in VHF/UHF bands for IoT communications E Bedeer, J Pugh, C Brown, H Yanikomeroglu 2017 IEEE 86th Vehicular Technology Conference (VTC-Fall), 1-5	6	2017

TITLE	CITED BY	YEAR
A novel approach for QoS-aware joint user association, resource block and discrete power allocation in HetNets HU Sokun, RH Gohary, H Yanikomeroglu IEEE Transactions on Wireless Communications 16 (11), 7603-7618	10	2017
3-D placement of an unmanned aerial vehicle base station for maximum coverage of users with different QoS requirements M Alzenad, A El-Keyi, H Yanikomeroglu IEEE Wireless Communications Letters 7 (1), 38-41	471	2017
LTE for public safety networks: Synchronization in the presence of jamming A El-Keyi, O ÜReten, H Yanikomeroglu, T Yensen IEEE Access 5, 20800-20813	13	2017
Enabling sphere decoding for SCMA  M Vameghestahbanati, E Bedeer, I Marsland, RH Gohary, IEEE Communications Letters 21 (12), 2750-2753	40	2017
System and methods for multi-objective cell switch-off in wireless networks DG Gonzalez, H Yanikomeroglu, NG Senarath US Patent 9,730,153	13	2017
Low-complexity detection of high-order QAM faster-than-Nyquist signaling E Bedeer, MH Ahmed, H Yanikomeroglu IEEE Access 5, 14579-14588	32	2017
Self-interference cancellation for channel-unaware differential space-time two-way relay networks S Bameri, S Talebi, RH Gohary, H Yanikomeroglu 2017 IEEE 18th International Workshop on Signal Processing Advances in	2	2017
Massive machine type communication with data aggregation and resource scheduling J Guo, S Durrani, X Zhou, H Yanikomeroglu IEEE Transactions on Communications 65 (9), 4012-4026	73	2017
Multi-resolution multicasting over the Grassmann and Stiefel manifolds KG Seddik, RH Gohary, MT Hussien, M Shaqfeh, H Alnuweiri, IEEE Transactions on Wireless Communications 16 (8), 5296-5310	9	2017
Joint backhaul and access optimization for service-segment-based VN admission control M Mirahsan, H Farmanbar, H Yanikomeroglu 2017 IEEE International Conference on Communications (ICC), 1-6	2	2017
Reduced complexity optimal detection of binary faster-than-Nyquist signalin E Bedeer, H Yanikomeroglu, MH Ahmed 2017 IEEE International Conference on Communications (ICC), 1-6	g 22	2017
Backhaul-aware robust 3D drone placement in 5G+ wireless networks E Kalantari, MZ Shakir, H Yanikomeroglu, A Yongacoglu 2017 IEEE international conference on communications workshops (ICC	294	2017

TITLE	CITED BY	YEAR
Non-coherent multi-layer constellations for unequal error protection KM Attiah, K Seddik, RH Gohary, H Yanikomeroglu 2017 IEEE International Conference on Communications (ICC), 1-6	2	2017
Number-theoretic sequence design for uncoordinated autonomous multiple access in relay-assisted machine-type communications YMM Fouad, RH Gohary, H Yanikomeroglu IEEE Transactions on Vehicular Technology 66 (10), 9018-9034	2	2017
System and method for grassmannian signaling in a broadband network Y Fouad, R Gohary, H Yanikomeroglu, H Nikopour US Patent 9,654,324		2017
Optimization of discrete power and resource block allocation for achieving maximum energy efficiency in OFDMA networks HU Sokun, E Bedeer, RH Gohary, H Yanikomeroglu IEEE Access 5, 8648-8658	27	2017
3-D placement of an unmanned aerial vehicle base station (UAV-BS) for energy-efficient maximal coverage M Alzenad, A El-Keyi, F Lagum, H Yanikomeroglu IEEE Wireless Communications Letters 6 (4), 434-437	900	2017
System and method for wireless load balancing R Schoenen, Z Wang, H Yanikomeroglu, NG Senarath, DAO Ngoc-Dung US Patent 9,642,039	15	2017
V. CONCLUSION HU Sokun, H Yanikomeroglu IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY 66 (5), 4501		2017
Cell switch-off algorithms for spatially irregular base station deployments QN Le-The, T Beitelmal, F Lagum, SS Szyszkowicz, H Yanikomeroglu IEEE Wireless Communications Letters 6 (3), 354-357	13	2017
A very low complexity successive symbol-by-symbol sequence estimator for faster-than-Nyquist signaling E Bedeer, MH Ahmed, H Yanikomeroglu IEEE Access 5, 7414-7422	60	2017
Cell switch-off for networks deployed with variable spatial regularity F Lagum, QN Le-The, T Beitelmal, SS Szyszkowicz, H Yanikomeroglu IEEE Wireless Communications Letters 6 (2), 234-237	17	2017
Automation of millimeter wave network planning for outdoor coverage in dense urban areas using wall-mounted base stations N Palizban, S Szyszkowicz, H Yanikomeroglu IEEE Wireless Communications Letters 6 (2), 206-209	45	2017
Antenna selection in MIMO cognitive AF relay networks with mutual interference and limited feedback E Erdogan, A Afana, S Ikki, H Yanikomeroglu	16	2017

TITLE	CITED BY	YEAR
IEEE Communications Letters 21 (5), 1111-1114		
A spectrally efficient signal space diversity-based two-way relaying system HU Sokun, MC Ilter, S Ikki, H Yanikomeroglu IEEE Transactions on Vehicular Technology 66 (7), 6215-6230	5	2017
Toward massive ray-based simulations of mmWave small cells on open urban maps D Solomitckii, M Gapeyenko, SS Szyszkowicz, S Andreev, IEEE Antennas and Wireless Propagation Letters 16, 1435-1438	7	2016
Spatial clustering in slotted ALOHA two-hop random access for machine type communication Z Zhao, SS Szyszkowicz, T Beitelmal, H Yanikomeroglu 2016 IEEE Global Communications Conference (GLOBECOM), 1-6	11	2016
Interference alignment for heterogeneous full-duplex cellular networks A El-Keyi, H Yanikomeroglu 2016 IEEE Global Communications Conference (GLOBECOM), 1-7	3	2016
Robust resource allocation to enhance physical layer security in systems with full-duplex receivers: Active adversary MR Abedi, N Mokari, H Saeedi, H Yanikomeroglu IEEE Transactions on Wireless Communications 16 (2), 885-899	87	2016
The new frontier in RAN heterogeneity: Multi-tier drone-cells I Bor-Yaliniz, H Yanikomeroglu IEEE Communications Magazine 54 (11), 48-55	510	2016
Antenna Port Selection in a Coordinated Cloud Radio Access Network G Bulu, T Ahmad, RH Gohary, C Toker, H Yanikomeroglu IEEE Communications Letters 21 (3), 588-591	1	2016
A novel multiobjective cell switch-off framework for cellular networks DG González, J Hämäläinen, H Yanikomeroglu, M García-Lozano, IEEE access 4, 7883-7898	28	2016
Device-to-device communication underlaying a finite cellular network region J Guo, S Durrani, X Zhou, H Yanikomeroglu IEEE Transactions on Wireless Communications 16 (1), 332-347	47	2016
System and method for multiple-input multiple-output communication R Gohary, H Yanikomeroglu US Patent 9,467,212	3	2016
System and method for controlling multiple wireless access nodes Y Cai, FR Yu, G Senarath, H Yanikomeroglu US Patent 9,451,611	5	2016
On the number and 3D placement of drone base stations in wireless cellula networks E Kalantari, H Yanikomeroglu, A Yongacoglu 2016 IEEE 84th vehicular technology conference (VTC-Fall), 1-6	r 456	2016

TITLE	CITED BY	YEAR
Green cellular demand control with user-in-the-loop enabled by smart data pricing using an effective quantum (eBit) tariff R Schoenen, HU Sokun, H Yanikomeroglu 2016 IEEE 84th Vehicular Technology Conference (VTC-Fall), 1-7	5	2016
Regular and static sector-based cell switch-off patterns T Beitelmal, SS Szyszkowicz, H Yanikomeroglu 2016 IEEE 84th Vehicular Technology Conference (VTC-Fall), 1-5	6	2016
Cooperative versus Full-Duplex Communication in Cellular Networks: A Comparison of the Total Degrees of Freedom A El-Keyi, H Yanikomeroglu 2016 IEEE 84th Vehicular Technology Conference (VTC-Fall), 1-6		2016
Arbitrary Constellations with Coded Maximum Ratio Transmission over Downlink Nakagami-m Fading Channels MC Ilter, PA Dmochowski, H Yanikomeroglu 2016 IEEE 84th Vehicular Technology Conference (VTC-Fall), 1-5		2016
Quantifying the regularity of perturbed triangular lattices using CoV-based metrics for modeling the locations of base stations in HetNets F Lagum, SS Szyszkowicz, H Yanikomeroglu 2016 IEEE 84th Vehicular Technology Conference (VTC-Fall), 1-5	10	2016
Next-generation environment-aware cellular networks: Modern green techniques and implementation challenges H Ghazzai, E Yaacoub, A Kadri, H Yanikomeroglu, MS Alouini IEEE Access 4, 5010-5029	45	2016
On the spectral efficiency of selective decode-and-forward relaying HU Sokun, H Yanikomeroglu IEEE Transactions on Vehicular Technology 66 (5), 4500-4506	12	2016
Exploring synergy between communications, caching, and computing in 5G grade deployments S Andreev, O Galinina, A Pyattaev, J Hosek, P Masek, H Yanikomeroglu, IEEE Communications Magazine 54 (8), 60-69	- 97	2016
A systematic design approach for non-coherent Grassmannian constellations KM Attiah, K Seddik, RH Gohary, H Yanikomeroglu 2016 IEEE International Symposium on Information Theory (ISIT), 2948-2952	11	2016
Non-coherent open-loop MIMO communications over temporally-correlated channels J Cabrejas, S Roger, D Calabuig, YMM Fouad, RH Gohary, JF Monserrat, IEEE Access 4, 6161-6170	14	2016
System and methods to achieve optimum efficiency-jain fairness in wireless systems AB Sediq, R Gohary, H Yanikomeroglu, G Senarath, HT Cheng US Patent 9,369,925	5	2016

TITLE	CITED BY	YEAR
Analytic modeling of sir in cellular networks with heterogeneous traffic M Mirahsan, H Yanikomeroglu, G Senarath, ND Đào IEEE Communications Letters 20 (8), 1627-1630	3	2016
Efficient 3-D placement of an aerial base station in next generation cellular networks RI Bor-Yaliniz, A El-Keyi, H Yanikomeroglu 2016 IEEE international conference on communications (ICC), 1-5	892	2016
Polar codes for noncoherent MIMO signalling PR Balogun, ID Marsland, RH Gohary, H Yanikomeroglu 2016 IEEE International Conference on Communications (ICC), 1-6	12	2016
Energy efficient power control and radio resource management in multi- connectivity framework Ö Haliloğlu, C Toker, G Bulu, B Yüksekkaya, H Yanıkömeroğlu 2016 24th Signal Processing and Communication Application Conference (SIU	2	2016
Secure communication in OFDMA-based cognitive radio networks: An incentivized secondary network coexistence approach MR Abedi, N Mokari, MR Javan, H Yanikomeroglu IEEE Transactions on Vehicular Technology 66 (2), 1171-1185	38	2016
Automated placement of individual millimeter-wave wall-mounted base stations for line-of-sight coverage of outdoor urban areas SS Szyszkowicz, A Lou, H Yanikomeroglu IEEE Wireless Communications Letters 5 (3), 316-319	31	2016
System and method for greedy-based autonomous resource block assignment scheme for cellular networks with self-organizing relaying terminals Y Fouad, R Gohary, H Yanikomeroglu, G Senarath US Patent 9,288,679		2016
CoV-based metrics for quantifying the regularity of hard-core point processes for modeling base station locations F Lagum, SS Szyszkowicz, H Yanikomeroglu IEEE Wireless Communications Letters 5 (3), 276-279	21	2016
BER upper bound expressions in coded two-transmission schemes with arbitrarily spaced signal constellations MC Ilter, H Yanikomeroglu, PA Dmochowski IEEE Communications Letters 20 (2), 248-251	9	2015
Irregular multidimensional constellations for orthogonal STBCs H Khoshnevis, I Marsland, H Yanikomeroglu 2015 IEEE Global Communications Conference (GLOBECOM), 1-5	3	2015
A signal space diversity-based time division broadcast protocol in two-way relay systems HU Sokun, MC Ilter, S Ikki, H Yanikomeroglu 2015 IEEE Global Communications Conference (GLOBECOM), 1-6	1	2015

TITLE	CITED BY	YEAR
Space-Time Block Codes over the Stiefel Manifold MT Hussien, KG Seddik, RH Gohary, M Shaqfeh, H Alnuweiri, 2015 IEEE Global Communications Conference (GLOBECOM), 1-7	2	2015
Limited rate feedback scheme for resource allocation in secure relay- assisted OFDMA networks MR Abedi, N Mokari, MR Javan, H Yanikomeroglu IEEE Transactions on Wireless Communications 15 (4), 2604-2618	22	2015
Optimum transmission through the multiple-antenna Gaussian multiple access channel D Calabuig, RH Gohary, H Yanikomeroglu IEEE Transactions on Information Theory 62 (1), 230-243	8	2015
User-in-the-loop for hethetnets with backhaul capacity constraints M Mirahsan, R Schoenen, H Yanikomeroglu, G Senarath, N Dung-Dao IEEE Wireless Communications 22 (5), 50-57	20	2015
Exploiting the $N$ -to-1 Mapping in Compress-and-Forward Relaying K Luo, RH Gohary, H Yanikomeroglu IEEE Transactions on Information Theory 62 (1), 290-308	4	2015
The capacity of a broadcast channel with Gaussian jamming and a friendly eavesdropper K Luo, RH Gohary, H Yanikomeroglu 2015 IEEE Information Theory Workshop-Fall (ITW), 327-331	5	2015
The ergodic high SNR capacity of the spatially-correlated non-coherent MIMO channel within an SNR-independent gap RH Gohary, H Yanikomeroglu 2015 IEEE Information Theory Workshop-Fall (ITW), 234-238	3	2015
Transmission power control for link-level handshaking in wireless sensor networks HU Yildiz, B Tavli, H Yanikomeroglu IEEE Sensors Journal 16 (2), 561-576	74	2015
Secure robust resource allocation in the presence of active eavesdroppers using full-duplex receivers MR Abedi, N Mokari, H Saeedi, H Yanikomeroglu 2015 IEEE 82nd Vehicular Technology Conference (VTC2015-Fall), 1-5	9	2015
QoS-guaranteed user association in HetNets via semidefinite relaxation HU Sokun, RH Gohary, H Yanikomeroglu 2015 IEEE 82nd Vehicular Technology Conference (VTC2015-Fall), 1-5	11	2015
Generalized cross-layer designs for generic half-duplex multicarrier wireless networks with frequency-reuse R Rashtchi, RH Gohary, H Yanikomeroglu IEEE Transactions on Wireless Communications 15 (1), 458-471	s 9	2015
User-aware cell switch-off algorithms I Aydin, H Yanikomeroglu, Ü Aygölü	14	2015

TITLE	CITED BY	YEAR
2015 International Wireless Communications and Mobile Computing Conference		
Near-optimum power control for two-tier SIMO uplink under power and interference constraints B Yuksekkaya, H Inaltekin, C Toker, H Yanikomeroglu 2015 IEEE 16th International Workshop on Signal Processing Advances in		2015
Secure robust resource allocation using full-duplex receivers M Abedi, N Mokari, H Saeedi, H Yanikomeroglu 2015 IEEE International Conference on Communication Workshop (ICCW), 497-502	10	2015
Load balancing in cellular networks with user-in-the-loop: A spatial traffic shaping approach Z Wang, R Schoenen, H Yanikomeroglu, M St-Hilaire 2015 IEEE International Conference on Communications (ICC), 2638-2643	12	2015
Measuring the spatial heterogeneity of outdoor users in wireless cellular networks based on open urban maps M Mirahsan, R Schoenen, SS Szyszkowicz, H Yanikomeroglu 2015 IEEE international conference on communications (ICC), 2834-2838	16	2015
Inter-cell interference coordination for wireless communication systems AB Sediq, R Schoenen, H Yanikomeroglu, G Senarath, Z Chao, US Patent 9,042,933	15	2015
HetHetNets: Heterogeneous traffic distribution in heterogeneous wireless cellular networks M Mirahsan, R Schoenen, H Yanikomeroglu IEEE Journal on Selected Areas in Communications 33 (10), 2252-2265	140	2015
Power control for two-tier SIMO-MIMO uplink under interference constraints B Yüksekkaya, H İnaltekin, C Toker, H Yanıkömeroğlu 2015 23nd Signal Processing and Communications Applications Conference (SIU		2015
Outage probability of ad hoc networks with wireless information and power transfer J Guo, S Durrani, X Zhou, H Yanikomeroglu IEEE Wireless Communications Letters 4 (4), 409-412	49	2015
Joint realtime and nonrealtime flows packet scheduling and resource block allocation in wireless OFDMA networks A Sharifian, R Schoenen, H Yanikomeroglu IEEE Transactions on Vehicular Technology 65 (4), 2589-2607	21	2015
Optimal design and power allocation for multicarrier decode and forward relays RH Gohary, R Rashtchi, H Yanikomeroglu 2015 IEEE International Conference on Acoustics, Speech and Signal	4	2015
Power allocation optimization in selective DF relaying with different modulation levels in the presence of imperfect channel estimations HU Sokun, AB Sediq, S Ikki, H Yanikomeroglu IEEE Communications Letters 19 (5), 867-870	2	2015

TITLE	CITED BY	YEAR
Time-frequency Grassmannian signalling for MIMO multi-channel-frequency flat systems YMM Fouad, RH Gohary, J Cabrejas, H Yanikomeroglu, D Calabuig, IEEE Communications Letters 19 (3), 475-478	/ <del>-</del> 6	2014
The impact of user spatial heterogeneity in heterogeneous cellular networks Z Wang, R Schoenen, H Yanikomeroglu, M St-Hilaire 2014 IEEE Globecom Workshops (GC Wkshps), 1278-1283	S 16	2014
Resource pooling in network virtualization and heterogeneous scenarios using Stochastic Petri nets R Schoenen, H Yanikomeroglu 2014 IEEE Global Communications Conference, 1193-1198		2014
Trade-offs in sum-rate maximization and fairness in relay-enhanced OFDMA-based cellular networks D Incebacak, H Yanikomeroglu, B Tavli 2014 IEEE Global Communications Conference, 4770-4775	3	2014
Statistical modeling of spatial traffic distribution with adjustable heterogenei and B S-correlation in wireless cellular networks M Mirahsan, R Schoenen, H Yanikomeroglu 2014 IEEE Global Communications Conference, 3647-3652	ty 10	2014
Optimized distributed inter-cell interference coordination (ICIC) scheme using projected subgradient and network flow optimization AB Sediq, R Schoenen, H Yanikomeroglu, G Senarath IEEE Transactions on Communications 63 (1), 107-124	28	2014
On the Accuracy of the High-SNR Approximation of the Differential Entropy of Signals in Additive Gaussian Noise: Real and Complex Cases RH Gohary, H Yanikomeroglu IEEE Transactions on Vehicular Technology 64 (10), 4845-4850	1	2014
Radio resource allocation for OFDM-based dynamic spectrum sharing: duality gap and time averaging MG Khoshkholgh, NM Yamchi, K Navaie, H Yanikomeroglu, VCM Leung, IEEE Journal on Selected Areas in Communications 33 (5), 848-864	10	2014
Energy efficient radio resource management in a coordinated multi-cell distributed antenna system O Haliloglu, C Toker, G Bulu, H Yanikomeroglu 2014 IEEE 25th Annual International Symposium on Personal, Indoor, and	3	2014
An upper bound on BER in a coded two-transmission scheme with same- size arbitrary 2D constellations MC llter, H Yanikomeroglu 2014 IEEE 25th Annual International Symposium on Personal, Indoor, and	3	2014
System and Method for Network Resource Allocation Considering User Experience, Satisfaction and Operator Interest A Sharifian, R Schoenen, H Yanikomeroglu, G Senarath, HT Cheng,	88	2014

TITLE	CITED BY	YEAR
US Patent App. 14/181,160		
Multi-resolution broadcasting over the Grassmann and Stiefel manifolds MT Hussien, KG Seddik, RH Gohary, M Shaqfeh, H Alnuweiri, 2014 IEEE International Symposium on Information Theory, 1907-1911	7	2014
A cross-layer design for generic interference-limited multicarrier networks R Rashtchi, RH Gohary, H Yanikomeroglu 2014 IEEE 15th International Workshop on Signal Processing Advances in	1	2014
An efficient greedy-based autonomous resource block assignment scheme for 5G cellular networks with self-organizing relaying terminals YMM Fouad, RH Gohary, H Yanikomeroglu 2014 IEEE 15th International Workshop on Signal Processing Advances in		2014
Optimization of a class of non-convex objectives on the Gaussian MIMO multiple access channel: Algorithm development and convergence analysis D Calabuig, RH Gohary, H Yanikomeroglu 2014 IEEE 15th International Workshop on Signal Processing Advances in	1	2014
A novel multiobjective framework for cell switch-off in dense cellular networks D González, H Yanikomeroglu, M Garcia-Lozano, SR Boqué 2014 IEEE International Conference on Communications (ICC), 2641-2647	27	2014
Unified and non-parameterized statistical modeling of temporal and spatial traffic heterogeneity in wireless cellular networks M Mirahsan, Z Wang, R Schoenen, H Yanikomeroglu, M St-Hilaire 2014 IEEE International Conference on Communications Workshops (ICC), 55-60	21	2014
A set cover based algorithm for cell switch-off with different cell sorting criteria T Beitelmal, H Yanikomeroglu 2014 IEEE International Conference on Communications Workshops (ICC), 641-646	26	2014
Selective DF relaying in multi-relay networks with different modulation levels HU Sokun, AB Sediq, S Ikki, H Yanikomeroglu 2014 IEEE International Conference on Communications (ICC), 5035-5041	6	2014
Interference-aware energy-efficient resource allocation for OFDMA-based heterogeneous networks with incomplete channel state information S Bu, FR Yu, H Yanikomeroglu IEEE Transactions on Vehicular Technology 64 (3), 1036-1050	131	2014
Device-to-device communication in 5G cellular networks: challenges, solutions, and future directions MN Tehrani, M Uysal, H Yanikomeroglu IEEE Communications Magazine 52 (5), 86-92	1279	2014
On the accuracy of the high SNR approximation of the differential entropy of signals in additive Gaussian noise RH Gohary, H Yanikomeroglu 2014 IEEE International Conference on Acoustics, Speech and Signal	f 2	2014

TITLE	CITED BY	YEAR
A simple approximation of the aggregate interference from a cluster of many interferers with correlated shadowing SS Szyszkowicz, H Yanikomeroglu IEEE transactions on wireless communications 13 (8), 4415-4423	7	2014
Grassmannian signalling achieves tight bounds on the ergodic high-SNR capacity of the noncoherent MIMO full-duplex relay channel RH Gohary, H Yanikomeroglu IEEE transactions on information theory 60 (5), 2480-2494	16	2014
User-in-the-loop: Spatial and temporal demand shaping for sustainable wireless networks R Schoenen, H Yanikomeroglu IEEE Communications Magazine 52 (2), 196-203	53	2014
Routing, scheduling and power allocation in generic OFDMA wireless networks: Optimal design and efficiently computable bounds R Rashtchi, RH Gohary, H Yanikomeroglu IEEE transactions on wireless communications 13 (4), 2034-2046	14	2014
A novel multiobjective framework for cell switch-off in dense cellular networks  D González González, H Yanikomeroglu, M García Lozano, S Ruiz Boqué Proceedings of COST IC1004 Cooperative Radio Communications for Green Smart		2014
Non-coherent MIMO communication for the 5th generation mobile: Overview and practical aspects S Roger Varea, J Cabrejas Peñuelas, D Calabuig Soler, Waves 6, 5-15	v 12	2014
Erlang analysis of cellular networks using stochastic Petri nets and user-in- the-loop extension for demand control R Schoenen, H Yanikomeroglu 2013 IEEE Globecom Workshops (GC Wkshps), 298-303	8	2013
An efficient cross layer design for OFDMA-based wireless networks with channel reuse R Rashtchi, RH Gohary, H Yanikomeroglu 2013 IEEE Global Communications Conference (GLOBECOM), 3589-3595	2	2013
Scheduling apparatus and method of relay-based network YD Kim, MR Salem, A Adinoyi, H Yanikomeroglu, D Falconer US Patent 8,565,144	1	2013
Generalized coordinated port selection in a multi-cell distributed antenna system using semidefinite relaxation G Bulu, T Ahmad, R Gohary, H Yanikomeroglu, C Toker 2013 IEEE 24th Annual International Symposium on Personal, Indoor, and	2	2013
Energy efficiency and capacity evaluation of LTE-Advanced downlink CoMF schemes subject to channel estimation errors and system delay G Cili, H Yanikomeroglu, FR Yu	5	2013

TITLE	CITED BY	YEAR
2013 IEEE 78th Vehicular Technology Conference (VTC Fall), 1-5		
Optimal design of the spectrum sensing parameters in the overlay spectrum sharing MG Khoshkholgh, K Navaie, H Yanikomeroglu IEEE Transactions on Mobile Computing 13 (9), 2071-2085	13	2013
Optimum transmission through the Gaussian multiple access channel D Calabuig, R Gohary, H Yanikomeroglu 2013 IEEE International Symposium on Information Theory, 201-205	1	2013
Resource allocation method and device for amplify-and-forward relay network A Sharifian, P Djukic, H Yanikomeroglu, J Zhang US Patent 8,477,679	8	2013
Method and system for capacity and coverage enhancement in wireless networks with relays S Periyalwar, O Mubarek, H Yanikomeroglu US Patent 8,478,283	93	2013
Optimal tradeoff between sum-rate efficiency and Jain's fairness index in resource allocation AB Sediq, RH Gohary, R Schoenen, H Yanikomeroglu IEEE Transactions on Wireless Communications 12 (7), 3496-3509	148	2013
Coordinated Multi-Point (CoMP) adaptive estimation and prediction scheme using superimposed and decomposed channel tracking G Cili, H Yanikomeroglu, FR Yu 2013 IEEE International Conference on Communications Workshops (ICC), 116-121	S 7	2013
Interference management in underlay spectrum sharing using indirect powe control signalling MG Khoshkholgh, K Navaie, H Yanikomeroglu IEEE transactions on wireless communications 12 (7), 3264-3277	r 14	2013
Joint optimization of the transmit covariance and relay precoder in general Gaussian amplify-and-forward relay channels RH Gohary, H Yanikomeroglu IEEE transactions on information theory 59 (9), 5331-5351	3	2013
Dynamic demand control with differentiated qos in user-in-the-loop controlle cellular networks R Schoenen, H Yanikomeroglu 2013 IEEE 77th Vehicular Technology Conference (VTC Spring), 1-6	d 8	2013
Radio resource management in a coordinated cellular distributed antenna system by using particle swarm optimization O Haliloglu, C Toker, G Bulu, H Yanikomeroglu 2013 IEEE 77th Vehicular Technology Conference (VTC Spring), 1-5	3	2013
A pricing based algorithm for cell switching off in green cellular networks A Yildiz, T Girici, H Yanikomeroglu	28	2013

TITLE	CITED BY	YEAR
2013 IEEE 77th vehicular technology conference (VTC Spring), 1-6		
Analysis of the generalized DF-CF for Gaussian relay channels: Decode or compress?  K Luo, RH Gohary, H Yanikomeroglu IEEE transactions on communications 61 (5), 1810-1821	10	2013
Apparatus and method for allocating subchannels and controlling interference in OFDMA systems MR Salem, A Adinoiyi, M Rahman, H Yanikomeroglu, D Falconer, YD Kim US Patent 8,339,975	4	2012
Turbo receiver design for relay ARQ transmissions Z El-Moutaouakkil, TA Idir, S Saoudi, H Yanikomeroglu, M Ghogho GLOBECOM 2012: IEEE Global Communications Conference, .		2012
Scheme for Energy Saving in Dense Cell Deployments F Alaca, AB Sediq, H Yanikomeroglu		2012
A genetic algorithm based cell switch-off scheme for energy saving in dense cell deployments F Alaca, AB Sediq, H Yanikomeroglu 2012 IEEE Globecom Workshops, 63-68	43	2012
Efficiently computable bounds on the rates achieved by a cross layer design with binary scheduling in generic OFDMA wireless networks R Rashtchi, RH Gohary, H Yanikomeroglu 2012 IEEE Globecom Workshops, 146-151	ı	2012
Turbo receiver design for MIMO relay ARQ transmissions Z El-Moutaouakkil, T Ait-Idir, S Saoudi, H Yanikomeroglu, M Ghogho 2012 IEEE Global Communications Conference (GLOBECOM), 4488-4493		2012
Secondary user access in LTE architecture based on a base-station-centric framework with dynamic pricing S Dixit, S Periyalwar, H Yanikomeroglu IEEE Transactions on Vehicular Technology 62 (1), 284-296	24	2012
A decoding procedure for compress-and-forward and quantize-and-forward relaying K Luo, RH Gohary, H Yanikomeroglu 2012 50th Annual Allerton Conference on Communication, Control, and	3	2012
Economics of user-in-the-loop demand control with differentiated QoS in cellular networks R Schoenen, H Yanikomeroglu 2012 IEEE 23rd International Symposium on Personal, Indoor and Mobile Radio	6	2012
Optimal tradeoff between efficiency and Jain's fairness index in resource allocation AB Sediq, RH Gohary, H Yanikomeroglu 2012 IEEE 23rd International symposium on personal, indoor and mobile radio	58	2012

TITLE	CITED BY	YEAR
Grassmannian signalling achieves the ergodic high SNR capacity of the nor coherent MIMO relay channel within an SNR-independent gap RH Gohary, H Yanikomeroglu 2012 IEEE Information Theory Workshop, 442-446	-	2012
First survey results of quantified user behavior in user-in-the-loop scenarios for sustainable wireless networks R Schoenen, G Bulu, A Mirtaheri, T Beitelmal, H Yanikomeroglu 2012 IEEE Vehicular Technology Conference (VTC Fall), 1-5	12	2012
Spectral efficiency and fairness tradeoffs in cellular networks with realtime+ nonrealtime traffic mix using stochastic Petri nets R Schoenen, AB Sediq, H Yanikomeroglu, G Senarath, Z Chao, 2012 IEEE Vehicular Technology Conference (VTC Fall), 1-5	7	2012
Outage performance of the primary service in spectrum sharing networks MG Khoshkholgh, K Navaie, H Yanikomeroglu IEEE Transactions on Mobile Computing 12 (10), 1955-1971	23	2012
Separating the effect of independent interference sources with Rayleigh faded signal link: Outage analysis and applications AS Kahlon, SS Szyszkowicz, S Periyalwar, H Yanikomeroglu IEEE Wireless Communications Letters 1 (5), 409-411	4	2012
A sufficient convergence condition for the quantized iterative water-filling algorithm RH Gohary, H Yanikomeroglu 2012 IEEE 13th International Workshop on Signal Processing Advances in		2012
Cell switch off technique combined with coordinated multi-point (CoMP) transmission for energy efficiency in beyond-LTE cellular networks G Cili, H Yanikomeroglu, FR Yu 2012 IEEE international conference on communications (ICC), 5931-5935	121	2012
Coordinated max-min fair port selection in a multi-cell distributed antenna system using semidefinite relaxation T Ahmad, R Gohary, H Yanikomeroglu, S Ai-Ahmadi, G Boudreau 2012 IEEE International Conference on Communications (ICC), 3616-3620	4	2012
Joint routing, scheduling and power allocation in OFDMA wireless ad hoc networks R Rashtchi, RH Gohary, H Yanikomeroglu 2012 IEEE International Conference on Communications (ICC), 5483-5487	13	2012
On the impact of correlated shadowing on the performance of user-in-the- loop for mobility T Beitelmal, R Schoenen, H Yanikomeroglu 2012 IEEE International Conference on Communications (ICC), 7040-7044	9	2012
Turbo packet combining for relaying schemes over multiantenna broadband channels H Chafnaji, T Ait-Idir, H Yanikomeroglu, S Saoudi	5	2012

TITLE	CITED BY	YEAR
IEEE transactions on vehicular technology 61 (7), 2965-2977		
Towards 5G wireless cellular networks: Views on emerging concepts and technologies H Yanikomeroglu 2012 20th Signal Processing and Communications Applications Conference (SIU	7	2012
Quantified user behavior in user-in-the-loop spatially and demand controlled cellular systems R Schoenen, G Bulu, A Mirtaheri, T Beitelmal, H Yanikomeroglu European Wireless 2012; 18th European Wireless Conference 2012, 1-8	<b>i</b> 20	2012
Selection combining of signals with different modulation levels in Nakagami- m fading AB Sediq, H Yanikomeroglu IEEE communications letters 16 (5), 752-755	- 12	2012
Convergence of iterative water-filling with quantized feedback: A sufficient condition RH Gohary, H Yanikomeroglu IEEE transactions on signal processing 60 (5), 2688-2693	4	2012
Coordinated port selection and beam steering optimization in a multi-cell distributed antenna system using semidefinite relaxation T Ahmad, RH Gohary, H Yanikomeroglu, S Al-Ahmadi, G Boudreau IEEE Transactions on wireless communications 11 (5), 1861-1871	25	2012
An autonomous resource block assignment scheme for OFDMA-based relay-assisted cellular networks YMM Fouad, RH Gohary, H Yanikomeroglu IEEE transactions on wireless communications 11 (2), 637-647	9	2011
RESOURCE ALLOCATION METHOD AND DEVICE FOR AMPLIFY-AND-FORWARD RELAY NETWORK S ALIREZA, D PETAR, Y HALIM, J ZHANG WO Patent WO/2011/140,851		2011
Wireless hop-by-hop credit-based flow control extended to source for stable best effort traffic R Schoenen, H Yanikomeroglu 2011 Australasian Telecommunication Networks and Applications Conference	3	2011
Turbo packet combining for hybrid AF/DF multi-relay-assisted systems over multi-antenna broadband channels H Chafnaji, TA Idir, H Yanikomeroglu, S Saoudi WWRF27: 27th Wireless World Research Forum		2011
Virtual antenna based combining for hybrid AF/DF relaying scheme over multi-antenna broadband channels H Chafnaji, TA Idir, H Yanikomeroglu, S Saoudi WWRF: Wireless World Research Forum		2011

TITLE	CITED BY	YEAR
On the generalization of decode-and-forward and compress-and-forward for Gaussian relay channels K Luo, RH Gohary, H Yanikomeroglu 2011 IEEE Information Theory Workshop, 623-627	8	2011
Green communications by demand shaping and User-in-the-Loop tariff- based control R Schoenen, G Bulu, A Mirtaheri, H Yanikomeroglu 2011 IEEE Online Conference on Green Communications, 64-69	24	2011
A novel distributed inter-cell interference coordination scheme based on projected subgradient and network flow optimization AB Sediq, R Schoenen, H Yanikomeroglu, G Senarath, Z Chao 2011 IEEE 22nd International Symposium on Personal, Indoor and Mobile Radio	14	2011
Identification of spectrum sharing opportunities for a finite field secondary network through an exact outage expression under Rayleigh fading AS Kahlon, SS Szyszkowicz, S Periyalwar, H Yanikomeroglu 2011 IEEE 22nd International Symposium on Personal, Indoor and Mobile Radio	1	2011
Outage in a cellular network overlaid with an ad hoc network: The uplink case AS Kahlon, S Periyalwar, H Yanikomeroglu, SS Szyszkowicz 2011 IEEE 22nd International Symposium on Personal, Indoor and Mobile Radio	6	2011
Fairness analysis in cellular networks using stochastic Petri nets R Schoenen, AB Sediq, H Yanikomeroglu, G Senarath, Z Chao 2011 IEEE 22nd International Symposium on Personal, Indoor and Mobile Radio	8	2011
A new formula for the BER of binary modulations with dual-branch selection over generalized-K composite fading channels IS Ansari, S Al-Ahmadi, F Yilmaz, MS Alouini, H Yanikomeroglu IEEE Transactions on Communications 59 (10), 2654-2658	405	2011
A cumulant-based investigation of the impact of secondary users' field size on spectrum-sharing opportunities M Aljuaid, H Yanikomeroglu IEEE transactions on vehicular technology 60 (7), 3490-3497	7	2011
Aggregate interference distribution from large wireless networks with correlated shadowing: An analytical—numerical—simulation approach SS Szyszkowicz, F Alaca, H Yanikomeroglu, JS Thompson IEEE Transactions on Vehicular Technology 60 (6), 2752-2764	10	2011
An Exact Closed-Form Expression for the BER of Binary Modulations with Dual-Branch Selection over Generalized-K Fading IS Ansari, S Al-Ahmadi, F Yilmaz, MS Alouini, H Yanikomeroglu 2011 IEEE 73rd Vehicular Technology Conference (VTC Spring), 1-4		2011
A Resource Block Assignment Scheme for OFDMA-Based Cellular Networks with Self-Organizing Terminal Relays YMM Fouad, RH Gohary, H Yanikomeroglu	5	2011

TITLE	CITED BY	YEAR
2011 IEEE 73rd Vehicular Technology Conference (VTC Spring), 1-5		
On the delay-fairness through scheduling for wireless OFDMA networks A Sharifian, H Yanikomeroglu 2011 IEEE 73rd Vehicular Technology Conference (VTC Spring), 1-5	7	2011
Downlink linear transmission schemes in a single-cell distributed antenna system with port selection T Ahmad, S Al-Ahmadi, H Yanikomeroglu, G Boudreau 2011 IEEE 73rd Vehicular Technology Conference (VTC Spring), 1-5	13	2011
Multihop wireless channel models suitable for stochastic Petri nets and markov state analysis R Schoenen, MR Salem, AB Sediq, H Yanikomeroglu 2011 IEEE 73rd Vehicular Technology Conference (VTC Spring), 1-5	10	2011
User in the loop: Mobility aware users substantially boost spectral efficiency of cellular OFDMA systems R Schoenen, H Yanikomeroglu, B Walke IEEE Communications letters 15 (5), 488-490	28	2011
A survey of opportunities for free space optics in next generation cellular networks F Demers, H Yanikomeroglu, M St-Hilaire 2011 Ninth annual communication networks and services research conference	110	2011
An emerging concept for 4G+ wireless cellular networks: Terminal relaying RH Gohary, H Yanikomeroglu 2011 Saudi International Electronics, Communications and Photonics	4	2011
Optimized nonuniform constellation rearrangement for cooperative relaying AB Sediq, P Djukic, H Yanikomeroglu, J Zhang IEEE Transactions on Vehicular Technology 60 (5), 2340-2347	22	2011
Fair resource allocation toward ubiquitous coverage in OFDMA-based cellular relay networks with asymmetric traffic M Salem, A Adinoyi, H Yanikomeroglu, D Falconer IEEE Transactions on Vehicular Technology 60 (5), 2280-2292	32	2011
Performance analysis of selection combining of signals with different modulation levels in cooperative communications AB Sediq, H Yanikomeroglu IEEE Transactions on Vehicular Technology 60 (4), 1880-1887	41	2011
DATA TRANSMISSION METHOD, SYSTEM, INTERMEDIATE NODE AND SOURCE NODE IN COOPERATIVE RELAY NETWORK J ZHANG, SBS AKRAM, D PETAR, Y HALIM WO Patent WO/2011/134,305		2011
On the beamforming optimality range in TIMO channels with common and individual input power constraints S Al-Ahmadi, H Yanikomeroglu IEEE Transactions on Communications 59 (3), 648-651	3	2011

TITLE	CITED BY	YEAR
Spectrum Sharing in DS-CDMA/OFDM Wireless Mobile Networks K Navaie, H Yanikomeroglu, MG Khoshkholgh, AR Sharafat, H Nikoofar Cognitive Radio Mobile Ad Hoc Networks, 91-125		2011
Mixed time-scale generalized fair scheduling for amplify-and-forward relay networks A Sharifian, P Djukic, H Yanikomeroglu, J Zhang 2010 IEEE Global Telecommunications Conference GLOBECOM 2010, 1-5	3	2010
Signal-level turbo packet combining for multi-rate relay-assisted systems over multi-antenna broadband channels H Chafnaji, T Ait-Idir, H Yanikomeroglu, S Saoudi 2010 IEEE Global Telecommunications Conference GLOBECOM 2010, 1-5	8	2010
Threshold-based relay selection for detect-and-forward relaying in cooperative wireless networks F Atay Onat, Y Fan, H Yanikomeroglu, HV Poor EURASIP journal on wireless communications and networking 2010, 1-9	37	2010
On the feasibility of wireless shadowing correlation models SS Szyszkowicz, H Yanikomeroglu, JS Thompson IEEE Transactions on Vehicular Technology 59 (9), 4222-4236	180	2010
The ergodic and outage capacities of distributed antenna systems in generalized-K fading channels S Al-Ahmadi, H Yanikomeroglu 21st Annual IEEE International Symposium on Personal, Indoor and Mobile	8	2010
Relay ARQ strategies for single carrier MIMO broadband amplify-and-forward cooperative transmission Z El-Moutaouakkil, T Ait-Idir, H Yanikomeroglu, S Saoudi 21st Annual IEEE International Symposium on Personal, Indoor and Mobile	9	2010
Identifying boundaries of dominant regions dictating spectrum sharing opportunities for large secondary networks M Aljuaid, H Yanikomeroglu 21st Annual IEEE International Symposium on Personal, Indoor and Mobile	8	2010
Optimal relay location for fading relay channels R Yin, Y Zhang, J Zhang, G Yu, Z Zhang, H Yanikomeroglu 2010 IEEE 72nd Vehicular Technology Conference-Fall, 1-5	14	2010
Max-min fair resource allocation for multiuser amplify-and-forward relay networks A Sharifian, P Djukic, H Yanikomeroglu, J Zhang 2010 IEEE 72nd Vehicular Technology Conference-Fall, 1-5	10	2010
Hierarchical and adaptive spectrum sensing in cognitive radio based multi- hop cellular networks H Zhuang, Z Luo, J Zhang, H Yanikomeroglu 2010 IEEE 72nd Vehicular Technology Conference-Fall, 1-6	5	2010

TITLE	CITED BY	YEAR
A competitive and dynamic pricing model for secondary users in infrastructure based networks S Dixit, S Periyalwar, H Yanikomeroglu 2010 IEEE 72nd Vehicular Technology Conference-Fall, 1-5	6	2010
Novel approaches to determine the optimal operating point of spectrum sensing in overlay spectrum sharing MG Khoshkholgh, K Navaie, H Yanikomeroglu 2010 IEEE 72nd Vehicular Technology Conference-Fall, 1-5	8	2010
Investigating the Gaussian convergence of the distribution of the aggregate interference power in large wireless networks M Aljuaid, H Yanikomeroglu IEEE Transactions on Vehicular Technology 59 (9), 4418-4424	78	2010
Turbo packet combining techniques for multi-relay-assisted systems over multi-antenna broadband channels H Chafnaji, H Yanikomeroglu, T Ait-Idir, S Saoudi Proceedings of the 6th International Wireless Communications and Mobile	2	2010
Analysis of packet combining for single carrier multi-relay broadband system H Chafnaji, T Ait-Idir, H Yanikomeroglu, S Saoudi 2010 IEEE 11th International Workshop on Signal Processing Advances in	1	2010
On the statistics of the sum of correlated generalized-K RVs S Al-Ahmadi, H Yanikomeroglu 2010 IEEE International Conference on Communications, 1-5	12	2010
Impact of the secondary network on the outage performance of the primary service in spectrum sharing MG Khoshkholgh, K Navaie, H Yanikomeroglu 2010 IEEE International Conference on Communications, 1-5	6	2010
Generalized proportionally fair scheduling for multi-user amplify-and-forward relay networks A Sharifian, P Djukic, H Yanikomeroglu, J Zhang 2010 IEEE 71st Vehicular Technology Conference, 1-5	J 9	2010
Nomadic relay-directed joint power and subchannel allocation in OFDMA-based cellular fixed relay networks M Salem, A Adinoyi, H Yanikomeroglu, YD Kim 2010 IEEE 71st Vehicular Technology Conference, 1-5	5	2010
Generalized constellation rearrangement in cooperative relaying AB Sediq, P Djukic, H Yanikomeroglu, J Zhang 2010 IEEE 71st Vehicular Technology Conference, 1-5	6	2010
Efficient simulation using shadowing fields of many wireless interferers with correlated shadowing SS Szyszkowicz, F Alaca, H Yanikomeroglu, JS Thompson 2010 IEEE 71st Vehicular Technology Conference, 1-5	8	2010

TITLE	CITED BY	YEAR
Inter-cell interference coordination in ofdma networks: A novel approach based on integer programming M Rahman, H Yanikomeroglu 2010 IEEE 71st Vehicular Technology Conference, 1-5	30	2010
A cumulant-based characterization of the aggregate interference power in wireless networks M Aljuaid, H Yanikomeroglu 2010 IEEE 71st Vehicular Technology Conference, 1-5	33	2010
Fairness-aware radio resource management in downlink OFDMA cellular relay networks M Salem, A Adinoyi, M Rahman, H Yanikomeroglu, D Falconer, YD Kim IEEE Transactions on wireless communications 9 (5), 1628-1639	150	2010
Investigating the validity of the Gaussian approximation for the distribution of the aggregate interference power in large wireless networks M Aljuaid, H Yanikomeroglu 2010 25th Biennial Symposium on Communications, 122-125	of 7	2010
Near-optimal non-uniform constellation rearrangement for cooperative relaying AB Sediq, P Djukic, H Yanikomeroglu, J Zhang 2010 25th Biennial Symposium on Communications, 159-162	5	2010
An overview of radio resource management in relay-enhanced OFDMA-based networks M Salem, A Adinoyi, M Rahman, H Yanikomeroglu, D Falconer, YD Kim, IEEE Communications Surveys & Tutorials 12 (3), 422-438	228	2010
On the approximation of the PDF of the sum of independent generalized-K RVs by another generalized-K PDF with applications to distributed antenna systems S Al-Ahmadi, H Yanikomeroglu 2010 IEEE Wireless Communication and Networking Conference, 1-6	26	2010
A novel architecture for multi-hop wimax systems: Shared relay segmentation J Lee, H Yanikomeroglu 2010 IEEE Wireless Communication and Networking Conference, 1-6	11	2010
Radio resource management in OFDMA-based cellular networks enhanced with fixed and nomadic relays M Salem, A Adinoyi, H Yanikomeroglu, YD Kim 2010 IEEE Wireless Communication and Networking Conference, 1-6	25	2010
Impact of secondary users' field size on spectrum sharing opportunities M Aljuaid, H Yanikomeroglu 2010 IEEE Wireless Communication and Networking Conference, 1-6	13	2010
Enhancing cell-edge performance: a downlink dynamic interference avoidance scheme with inter-cell coordination	387	2010

TITLE	CITED BY	YEAR
M Rahman, H Yanikomeroglu IEEE Transactions on Wireless Communications 9 (4), 1414-1425		
Access strategies for spectrum sharing in fading environment: Overlay, underlay, and mixed MG Khoshkholgh, K Navaie, H Yanikomeroglu IEEE Transactions on Mobile Computing 9 (12), 1780-1793	242	2010
Achievable capacity in hybrid DS-CDMA/OFDM spectrum-sharing MG Khoshkholgh, K Navaie, H Yanikomeroglu IEEE Transactions on Mobile Computing 9 (6), 765-777	23	2010
Opportunities and challenges in OFDMA-based cellular relay networks: A radio resource management perspective M Salem, A Adinoyi, H Yanikomeroglu, D Falconer IEEE Transactions on Vehicular Technology 59 (5), 2496-2510	149	2010
On the approximation of the generalized-K distribution by a gamma distribution for modeling composite fading channels S Al-Ahmadi, H Yanikomeroglu IEEE Transactions on Wireless Communications 9 (2), 706-713	235	2010
A Distributed Framework with a Novel Pricing Model for Dynamic Spectrum Access to Secondary Users in Infrastructure based Wireless Networks H Yanikomeroglu		2010
Advanced Radio Access Networks for LTE and Beyond P Djukic, M Rahman, H Yanikomeroglu, J Zhang Evolved Cellular Network Planning and Optimization for UMTS and LTE	2	2010
Limit theorem on the sum of identically distributed equally and positively correlated joint lognormals SS Szyszkowicz, H Yanikomeroglu IEEE Transactions on Communications 57 (12), 3538-3542	35	2009
Performance of selection relaying and cooperative diversity A Adinoyi, Y Fan, H Yanikomeroglu, HV Poor, F Al-Shaalan IEEE Transactions on Wireless Communications 8 (12), 5790-5795	144	2009
Cross-layer resource scheduling for video traffic in the downlink of OFDMA-based wireless 4G networks FA Bokhari, H Yanikomeroglu, WK Wong, M Rahman EURASIP Journal on Wireless Communications and Networking 2009, 1-10	26	2009
On the use of high-order moment matching to approximate the generalized-K distribution by a gamma distribution S Al-Ahmadi, H Yanikomeroglu GLOBECOM 2009-2009 IEEE Global Telecommunications Conference, 1-6	2	2009
Fitting the modified-power-lognormal to the sum of independent lognormals distribution SS Szyszkowicz, H Yanikomeroglu GLOBECOM 2009-2009 IEEE Global Telecommunications Conference, 1-6	11	2009

TITLE	CITED BY	YEAR
A fair radio resource allocation scheme for ubiquitous high-data-rate coverage in OFDMA-based cellular relay networks M Salem, A Adinoyi, H Yanikomeroglu, D Falconer, YD Kim GLOBECOM 2009-2009 IEEE Global Telecommunications Conference, 1-6	28	2009
Turbo packet combining for broadband MIMO relay communication T Ait-Idir, H Chafnaji, H Yanikomeroglu, S Saoudi 2009 Mediterrannean Microwave Symposium (MMS), 1-4	1	2009
Performance analysis of soft-bit maximal ratio combining in cooperative relay networks AB Sediq, H Yanikomeroglu IEEE transactions on wireless communications 8 (10), 4934-4939	28	2009
On the role of the input power constraint in the beamforming optimality rangin TIMO channels H Yanikomeroglu, S Al-Ahmadi IEEE	ge	2009
A distributed framework with a novel pricing model for enabling dynamic spectrum access for secondary users S Dixit, S Periyalwar, H Yanikomeroglu 2009 IEEE 70th Vehicular Technology Conference Fall, 1-5	8	2009
Performance analysis of SNR-based selection combining and BER-based selection combining of signals with different modulation levels in cooperative communications  AB Sediq, H Yanikomeroglu 2009 IEEE 70th Vehicular Technology Conference Fall, 1-5	12 ⁄e	2009
Throughput fairness and efficiency of link adaptation techniques in wireless networks MH Ahmed, H Yanikomeroglu IET communications 3 (7), 1227-1238	3 10	2009
Joint turbo equalization for relaying schemes over frequency-selective fadir channels H Chafnaji, T Ait-Idir, H Yanikomeroglu, S Saoudi Proceedings of the 2009 International Conference on Wireless Communications	ng 5	2009
Fairness-aware joint routing and scheduling in OFDMA-based multi-cellular fixed relay networks M Salem, A Adinoyi, M Rahman, H Yanikomeroglu, D Falconer, YD Kim, IEEE International Communications Conference	r 37 '	2009
On the role of the input power constraint in the beamforming optimality rangin TIMO channels S Al-Ahmadi, H Yanikomeroglu 2009 11th Canadian Workshop on Information Theory, 59-62	ge	2009
User-centric RRM and optimizable protocol design for beyond-4G rans P Djukic, H Yanikomeroglu, J Zhang	8	2009

TITLE	CITED BY	YEAR
Proceedings of Wireless World Research Forum Meeting 22 (WWRF22), 1-5		
Diversity-multiplexing tradeoff bounds for wireless relay networks J Boyer, DD Falconer, H Yanikomeroglu 2009 IEEE Wireless Communications and Networking Conference, 1-6		2009
On the approximation of the generalized-K PDF by a Gamma PDF using th moment matching method S Al-Ahmadi, H Yanikomeroglu 2009 IEEE Wireless Communications and Networking Conference, 1-6	e 50	2009
Interference avoidance with dynamic inter-cell coordination for downlink LTI system M Rahman, H Yanikomeroglu, W Wong 2009 IEEE Wireless Communications and Networking Conference, 1-6	E 166	2009
On the impact of the primary network activity on the achievable capacity of spectrum sharing over fading channels MG Khoshkholgh, K Navaie, H Yanikomeroglu IEEE transactions on wireless communications 8 (4), 2100-2111	51	2009
A simple distributed antenna processing scheme for cooperative diversity Y Fan, A Adinoyi, JS Thompson, H Yanikomeroglu, HV Poor IEEE Transactions on Communications 57 (3), 626-629	24	2009
Cross-Layer Resource Scheduling for Video Traffic in the Downlink of OFDMA-Based Wireless 4G Networks-Volume 2009, Article ID 212783, 10 pages FA Bokhari, H Yanikomeroglu, WK Wong, M Rahman EURASIP Journal on Wireless Communications and Networking 23	2	2009
Modified-power-lognormal approximation to the sum of lognormals distribution SS Szyszkowicz, H Yanikomeroglu Global Telecommunications Conference, 1-6	5	2009
Utility-based adaptive radio resource allocation in OFDM wireless networks with traffic prioritization M Katoozian, K Navaie, H Yanikomeroglu IEEE Transactions on wireless communications 8 (1), 66-71	114	2009
Impact of the secondary service transmit power constraint on the achievabl capacity of spectrum sharing in Rayleigh fading environment MG Khoshkholgh, K Navaie, H Yanikomeroglu IEEE communications letters 12 (12), 865-867	e 6	2008
Asymptotic BER analysis of threshold digital relaying schemes in cooperative wireless systems FA Onat, Y Fan, H Yanikomeroglu, JS Thompson IEEE Transactions on Wireless Communications 7 (12), 4938-4947	81	2008
Threshold based relay selection in cooperative wireless networks FA Onat, Y Fan, H Yanikomeroglu, HV Poor	59	2008

TITLE	CITED BY	YEAR
IEEE GLOBECOM 2008-2008 IEEE Global Telecommunications Conference, 1-5		
Threshold selection for SNR-based selective digital relaying in cooperative wireless networks FA Onat, A Adinoyi, Y Fan, H Yanikomeroglu, JS Thompson, ID Marsland IEEE Transactions on Wireless Communications 7 (11), 4226-4237	232	2008
Threshold based distributed detection that achieves full diversity in wireless sensor networks Y Fan, FA Onat, H Yanikomeroglu, HV Poor 2008 42nd Asilomar Conference on Signals, Systems and Computers, 74-79	2	2008
Beyond-4G cellular networks: Advanced radio access network (RAN) architectures, advanced radio resource management (RRM) techniques, an other enabling technologies H Yanikomeroglu, J Zhang WWRF Meeting 21	9 d	2008
On the performance of time division multiple access-based multihop fixed cellular networks with respect to available frequency carriers MH Ahmed, I Syed, H Yanikomeroglu IET communications 2 (9), 1196-1204	10	2008
Impact of the primary network activity on the maximum achievable capacity of DS-CDMA/OFDM spectrum sharing MG Khoshkholgh, K Navaie, H Yanikomeroglu 2008 IEEE 68th Vehicular Technology Conference, 1-5	4	2008
Fairness assessment of the adaptive token bank fair queuing scheduling algorithm FA Bokhari, H Yanikomeroglu, WK Wong, M Rahman 2008 IEEE 68th Vehicular Technology Conference, 1-5	4	2008
On the asymptotic analysis of average interference power generated by a wireless sensor network M Aljuaid, H Yanikomeroglu 2008 IEEE 68th Vehicular Technology Conference, 1-5	6	2008
Diversity combining of signals with different modulation levels in cooperative relay networks AB Sediq, H Yanikomeroglu 2008 IEEE 68th Vehicular Technology Conference, 1-5	20	2008
On the performance of selection relaying A Adinoyi, Y Fan, H Yanikomeroglu, HV Poor 2008 IEEE 68th Vehicular Technology Conference, 1-5	65	2008
Decoding-based channel estimation for selective cooperation diversity protocols S Valentin, T Volkhausen, FA Onat, H Yanikomeroglu, H Karl 2008 IEEE 19th International Symposium on Personal, Indoor and Mobile Radio	5	2008

TITLE	CITED BY	YEAR
Adaptive multiple time-scale power allocation for spectrum sharing in DS-CDMA networks MG Khoshkholgh, K Navaie, H Yanikomeroglu ICC Workshops-2008 IEEE International Conference on Communications Workshops	4	2008
Enabling partial forwarding by decoding-based one and two-stage selective cooperation S Valentin, T Volkhausen, FA Onat, H Yanikomeroglu, H Karl ICC Workshops-2008 IEEE International Conference on Communications Workshops	13	2008
Adaptive token bank fair queuing scheduling in the downlink of 4G wireless multicarrier networks FA Bokhari, WK Wong, H Yanikomeroglu VTC Spring 2008-IEEE Vehicular Technology Conference, 1995-2000	10	2008
Optimal utility-based resource allocation for OFDM networks with multiple types of traffic M Katoozian, K Navaie, H Yanikomeroglu VTC Spring 2008-IEEE Vehicular Technology Conference, 2223-2227	22	2008
Interference avoidance through dynamic downlink OFDMA subchannel allocation using intercell coordination M Rahman, H Yanikomeroglu VTC Spring 2008-IEEE Vehicular Technology Conference, 1630-1635	57	2008
Analysis of interference from large clusters as modeled by the sum of many correlated lognormals SS Szyszkowicz, H Yanikomeroglu 2008 IEEE Wireless Communications and Networking Conference, 741-745	12	2008
Efficient cooperative diversity schemes and radio resource allocation for IEEE 802.16 j B Can, H Yanikomeroglu, FA Onat, E De Carvalho, H Yomo 2008 IEEE Wireless Communications and Networking Conference, 36-41	78	2008
MODULATION AND SIGNAL DESIGN-Impact of the Secondary Service Transmit Power Constraint on the Achievable Capacity of Spectrum Sharing in Rayleigh Fading Environment MG Khoshkholgh, K Navaie, H Yanikomeroglu IEEE Communications Letters 12 (12), 865	)	2008
Fast track article: Generating random graphs for the simulation of wireless ad hoc, actuator, sensor, and internet networks, Pervasive and Mobile Computing, v. 4 n. 5 FA Onat, I Stojmenovic, H Yanikomeroglu October	65	* 2008
Multicell downlink OFDM subchannel allocations using dynamic intercell coordination M Rahman, H Yanikomeroglu IEEE GLOBECOM 2007-IEEE Global Telecommunications Conference, 5220-5225	38	2007

TITLE	CITED BY	YEAR
Antenna combining for multi-antenna multi-relay channels Y Fan, A Adinoyi, JS Thompson, H Yanikomeroglu European Transactions on Telecommunications 18 (6), 617-626	24	2007
On the tails of the distribution of the sum of lognormals SS Szyszkowicz, H Yanikomeroglu 2007 IEEE International Conference on Communications, 5324-5329	22	2007
On the diversity-multiplexing tradeoff for multi-antenna multi-relay channels Y Fan, JS Thompson, A Adinoyi, H Yanikomeroglu 2007 IEEE International Conference on Communications, 5252-5257	16	2007
Cooperative connectivity models for wireless relay networks J Boyer, DD Falconer, H Yanikomeroglu IEEE Transactions on Wireless Communications 6 (6), 1992-2000	38	2007
Diversity order bounds for wireless relay networks J Boyer, DD Falconer, H Yanikomeroglu 2007 IEEE Wireless Communications and Networking Conference, 1800-1804	13	2007
Optimum threshold for SNR-based selective digital relaying schemes in cooperative wireless networks FA Onat, A Adinoyi, Y Fan, H Yanikomeroglu, JS Thompson 2007 IEEE Wireless Communications and Networking Conference, 969-974	63	2007
Cooperative relaying in multi-antenna fixed relay networks A Adinoyi, H Yanikomeroglu IEEE Transactions on Wireless Communications 6 (2), 533-544	296	2007
Optimal downlink resource allocation for cellular CDMA networks K Navaie Nova Science Publishers, Inc.	2	2007
Assessment of relay based deployment concepts and detailed description of multi-hop capable RAN protocols as input for the concept group work K Doppler, S Redana, K Schultz, N Johansson, M Wodczak, P Rost, IST-4-027756 WINNER II, D3	F 24	2007
Hybrid macro/microdiversity techniques in the reverse-link wireless communication networks A Adinoyi, H Yanikomeroglu IEEE transactions on wireless communications 5 (12), 3344-3349	2	2006
Wireless Communications C Yuen, YL Guan, TT Tjhung, MA Sadrabadi, AK Khandani, F Lahouti, IEEE Transactions on Wireless Communications	1	2006
Opportunistic nonorthogonal packet scheduling in fixed broadband wireless access networks M Rahman, H Yanikomeroglu, MH Ahmed, S Mahmoud EURASIP Journal on Wireless Communications and Networking 2006, 1-11	9	2006

TITLE	CITED BY	YEAR
WLC15-5: QoS Provisioning in the Absence of ARQ in Cellular Fixed Relay Networks through Inter-Cell Coordination M Rahman, H Yanikomeroglu IEEE Globecom 2006, 1-5	5	2006
WLC41-3: On the Performance of Cooperative Wireless Fixed Relays in Asymmetric Channels A Adinoyi, H Yanikomeroglu IEEE Globecom 2006, 1-5	25	2006
WLC35-6: Relay-assisted spatial multiplexing in wireless fixed relay networks FA Onat, H Yanikomeroglu, S Periyalwar IEEE Globecom 2006, 1-6	27	2006
A novel scheme for aggregate throughput maximization with fairness constraints in cellular networks MH Ahmed, H Yanikomeroglu IEEE Vehicular Technology Conference, 1-5	8	2006
Spectral efficiency and user diversity gains through cooperative fixed relays A Adinoyi, H Yanikomeroglu IEEE Vehicular Technology Conference, 1-5	5	2006
Routing Mechanisms for Multi-hop Cellular Communications in the WINNER Air Interface K Navaie, Y Liu, M Abaii, A Florea, H Yanikomeroglu, R Tafazolli IEEE Vehicular Technology Conference, 1-4	7	2006
Downlink joint base-station assignment and packet scheduling algorithm for cellular CDMA/TDMA networks K Navaie, H Yanikomeroglu 2006 IEEE International Conference on Communications 9, 4339-4344	31	2006
Analytical modeling of interference in cellular fixed relay networks SS Szyszkowicz, H Yanikomeroglu, E Fituri, S Periyalwar 2006 Canadian Conference on Electrical and Computer Engineering, 1562-1565	6	2006
Adaptive multi-stream relaying FA Onat, H Yanikomeroglu, S Periyalwar 2006 Canadian Conference on Electrical and Computer Engineering, 1351-1354	8	2006
Induced cooperative multi-user diversity relaying for multi-hop cellular networks K Navaie, H Yanikomeroglu 2006 IEEE 63rd Vehicular Technology Conference 2, 658-662	16	2006
On the scalability of relay based wireless networks A Florea, H Yanikomeroglu IEEE Wireless Communications and Networking Conference, 2006. WCNC 2006. 1	10	2006
Multi-antenna aspects of wireless fixed relays A Adinoyi, H Yanikomeroglu	17	* 2006

TITLE	CITED BY	YEAR
IEEE Wireless Communications and Networking Conference, 2006. WCNC 2006. 2		
Space diversity for multi-antenna multi-relay channels Y Fan, J Thompson, A Adinoyi, H Yanikomeroglu 12th European Wireless Conference 2006-Enabling Technologies for Wireless	17	2006
Optimal downlink resource allocation for non-real time traffic in cellular CDMA/TDMA networks K Navaie, H Yanikomeroglu IEEE Communications Letters 10 (4), 278-280	39	2006
Interference management using basestation coordination in broadband wireless access networks MH Ahmed, H Yanikomeroglu, S Mahmoud Wireless Communications and Mobile Computing 6 (1), 95-103	24	2006
Fairness of resource allocation in cellular networks: A survey K Montuno, Y Zhacfi Resource allocation in next generation wireless networks 5, 249	31	2006
Multi-route and Multi-user Diversity in Infrastructure-based Multi-hop Networks K Navaie, H Yanikomerolgu Cooperation in Wireless Networks: Principles and Applications, Editors: F	2	2006
Multi-route and Multi-user Diversity K Navaie, H Yanikomeroglu Cooperation in Wireless Networks: Principles and Applications: Real Egoistic	2	2006
On the optimal number of hops in infrastructure-based fixed relay networks A Florea, H Yanikomeroglu GLOBECOM'05. IEEE Global Telecommunications Conference, 2005. 6, 6 pp3247	68	2005
Practical capacity calculation for time-hopping ultra-wide band multiple- access communications A Adinoyi, H Yanikomeroglu IEEE communications letters 9 (7), 601-603	13	2005
Dynamic frequency hopping in cellular fixed relay networks O Mubarek, H Yanikomeroglu, S Periyalwar 2005 IEEE 61st Vehicular Technology Conference 5, 3112-3116	37	2005
Improving base station coordination based packet scheduling schemes in fixed broadband wireless access networks M Rahman, H Yanikomeroglu, MH Ahmed, S Mahmoud IEEE International Conference on Communications, 2005. ICC 2005. 2005 5		2005
On the impact of system resource constraints on wireless relaying channels J Boyer, DD Falconer, H Yanikomeroglu IEEE International Conference on Communications, 2005. ICC 2005. 2005 5	7	2005
SINR threshold lower bound for SINR-based call admission control in CDM/networks with imperfect power control	A 35	2005

TITLE	CITED BY	YEAR
MH Ahmed, H Yanikomeroglu IEEE Communications Letters 9 (4), 331-333		
On the performance of hybrid macro/microdiversity in the reverse-link microcellular networks A Adinoyi, H Yanikomeroglu IEEE Wireless Communications and Networking Conference, 2005 2, 973-977	5	2005
Proposal of the best suited deployment concepts for the identified scenarios and related RAN protocols D Schultz, R Pabst, N Johansson, M Schmidt, L Coletti, S Brunazzi, IST-WINNER D 3	7	2005
Multi-user diversity in multi-hop cellular networks K Navaie, H Yanikomeroglu Proceedings of the Canadian Workshop on Information Theory (CWIT'05)	2	2005
On the maximum diversity order of wireless relay networks: Common codebook generation J Boyer, D Falconer, H Yanikomeroglu IEEE Trans. Commun	3	2005
Tutorial: Infrastructure-based wireless multihop/relay/mesh networks H Yanikomeroglu IEEE Globecom 2004	4	2004
A lower bound on SINR threshold for call admission control in multiple-class CDMA systems with imperfect power-control MH Ahmed, H Yanikomeroglu IEEE Global Telecommunications Conference, 2004. GLOBECOM'04. 5, 3280-3284	7	2004
On the aggregate SNR of amplified relaying channels J Boyer, DD Falconer, H Yanikomeroglu IEEE Global Telecommunications Conference, 2004. GLOBECOM'04. 5, 3394-3398	20	2004
Range extension without capacity penalty in cellular networks with digital fixed relays H Hu, H Yanikomeroglu, DD Falconer, S Periyalwar IEEE Global Telecommunications Conference, 2004. GLOBECOM'04. 5, 3053-3057	261	2004
Feasibility of providing high data coverage in cellular fixed relay networks H Bolukbasi, H Yanikomeroglu, D Falconer, S Periyalwar World Wireless Research Forum meeting no. 12 (WWRF-12), 3-4	4	2004
Multihop diversity in wireless relaying channels J Boyer, DD Falconer, H Yanikomeroglu IEEE Transactions on communications 52 (10), 1820-1830	865	2004
Relay-based deployment concepts for wireless and mobile broadband radio R Pabst, BH Walke, DC Schultz, P Herhold, H Yanikomeroglu, IEEE Communications magazine 42 (9), 80-89	2333	2004

TITLE	CITED BY	YEAR
Hybrid macro-and generalized selection combining microdiversity in lognormal shadowed rayleigh fading channels A Adinoyi, H Yanikomeroglu, S Loyka 2004 IEEE International Conference on Communications (IEEE Cat. No	14	2004
Cellular multihop communications: infrastructure-based relay network architecture for 4G wireless systems H Yanikomeroglu Proceedings of the 22nd Biennial Symposium on Communications	48	2004
Fairness of link adaptation techniques in broadband wireless access networks MH Ahmed, H Yanikomeroglu, S Mahmoud 2004 IEEE 59th Vehicular Technology Conference. VTC 2004-Spring (IEEE Cat	3	2004
Reverse-link power allocation in two-hop multimedia CDMA networks D Walsh, H Yanikomeroglu Canadian Conference on Electrical and Computer Engineering 2004 (IEEE Cat		2004
On the capacity of cellular fixed relay networks H Bolukbasi, H Yanikomeroglu, DD Falconer, S Periyalwar Canadian Conference on Electrical and Computer Engineering 2004 (IEEE Cat	46	2004
Impact of multiple frequency channels usage on the performance of TDMA-based broadband fixed cellular multihop networks I Syed, MH Ahmed, H Yanikomeroglu, S Mahmoud 2004 IEEE Wireless Communications and Networking Conference (IEEE Cat. No	4	2004
Multihop relaying with diversity in peer-to-peer networks S Hares, H Yanikomeroglu, B Hashem IEEE Globecom	2	2003
Diversity-and AMC (adaptive modulation and coding)-aware routing in TDM multihop networks S Hares, H Yanikomeroglu, B Hashem GLOBECOM'03. IEEE Global Telecommunications Conference (IEEE Cat. No	A 22	2003
Interference management using packet scheduling in broadband wireless access networks MH Ahmed, H Yanikomeroglu, S Mahmoud Wiley Journals-Wireless Communications and Mobile Computing	5	2003
Radio Resource Management for Wireless Internet H Yanikomeroglu, MH Ahmed, B Hashem Wireless Communications and Mobile Computing 3 (7), 801-802		2003
Comparing the performance of inter-sector/intra-sector scheduling and ARC for multimedia traffic in wireless access networks MH Ahmed, H Yanikomeroglu, S Mahmoud IEEE Newfoundland Electrical and Computer Engineering Conference (NECE'03)	Q 1	2003
A relaying algorithm for multihop TDMA TDD networks using diversity S Hares, H Yanikomeroglu, B Hashem	12	2003

TITLE	CITED BY	YEAR
2003 IEEE 58th Vehicular Technology Conference. VTC 2003-Fall (IEEE Cat. No		
Fairness enhancement of link adaptation techniques in wireless access networks MH Ahmed, H Yanikomeroglu, S Mahmoud 2003 IEEE 58th Vehicular Technology Conference. VTC 2003-Fall (IEEE Cat. No	34	2003
Relayer selection strategies in cellular networks with peer-to-peer relaying V Sreng, H Yanikomeroglu, DD Falconer 2003 IEEE 58th Vehicular Technology Conference. VTC 2003-Fall (IEEE Cat. No	326	2003
Chapter proposal for WWRF/IEEE Book of Visions 2003:" Relay-based Deployment Concepts for Wireless and Mobile Broadband Cellular Radio" Edited by		2003
BH Walke, R Pabst, D Schultz, P Herhold, H Yanikomeroglu, S Mukherjee,		
Relay-based deployment concepts for wireless and mobile broadband cellular radio B Walke, R Pabst, D Schultz, S Mukherjee, H Viswanathan, WWRF/WG4 Relaying Subgroup White Paper	10	2003
WWRF/WG4/Ad-hoc Networking-Subgroup F Fitzek, S Krco, R Agustí, D Falconer, C Anton, B Hashem, S Hethuin,		2003
Performance enhancement of joint adaptive modulation, coding and power control using cochannel-interferer assistance and channel reallocation MH Ahmed, H Yanikomeroglu, D Falconer, S Mahmoud 2003 IEEE Wireless Communications and Networking, 2003. WCNC 2003. 1, 306-310	18	2003
Adaptive modulation, adaptive coding, and power control for fixed cellular broadband wireless systems: some new insights E Armanious, DD Falconer, H Yanikomeroglu 2003 IEEE Wireless Communications and Networking, 2003. WCNC 2003. 1, 238-242	67	2003
Coverage enhancement through two-hop peer-to-peer relaying in cellular radio networks H Yanikomeroglu, DD Falconer, V Sreng Broadband Communications and Wireless Systems (BCWS) Centre Department of	34	2002
Scheduling of multimedia traffic in interference-limited broadband wireless access networks MH Ahmed, H Yanikomeroglu, S Mahmoud, D Falconer The 5th International Symposium on Wireless Personal Multimedia	16	2002
Antenna gain against interference in CDMA macrodiversity systems H Yanikomeroglu, ES Sousa IEEE transactions on communications 50 (8), 1356-1371	15	2002
Fixed and mobile relaying technologies for cellular networks H Yanikomeroglu Second Workshop on Applications and Services in Wireless Networks (ASWN'02	173	2002

TITLE	CITED BY	YEAR
A Simulation Testbed for Radio Resource Management in Broadband Wireless Access MH Ahmed, SM Halim Yanikomeroglu, D Falconer Proc. Biennial Symposium on Communications	4	2002
Coverage enhancement through two-hop relaying in cellular radio systems V Sreng, H Yanikomeroglu, D Falconer 2002 IEEE Wireless Communications and Networking Conference Record. WCNC	199	2002
Radio resource management (RRM) in wireless multimedia networks H Yanikomeroglu, B Hashem, MH Ahmed tutorial notes, IEEE Globecom	2	2002
A theoretical characterization of the multihop wireless communications channel with diversity J Boyer, D Falconer, H Yanikomeroglu GLOBECOM'01. IEEE Global Telecommunications Conference (Cat. No. 01CH37270	102	2001
A theoretical characterization of the multihop wireless communications channel without diversity J Boyer, D Falconer, H Yanikomeroglu 12th IEEE International Symposium on Personal, Indoor and Mobile Radio	28	2001
A theoretical characterization of multihop wireless communications channels J Boyer, D Falconer, H Yanikomeroglu Proc. of Canadian Workshop on Information Theory	6 4	2001
Transmit power control in fixed cellular broadband wireless systems S Salamah, DD Falconer, H Yanikomeroglu 2000 IEEE Wireless Communications and Networking Conference. Conference	6	2000
Reverse-link power control in CDMA distributed antenna systems A Obaid, H Yanikomeroglu 2000 IEEE Wireless Communications and Networking Conference. Conference	37	2000
Effects of correlated interference on the potential linear antenna gain in CDMA macrodiversity systems H Yanikomeroglu, ES Sousa 2000 IEEE International Conference on Communications. ICC 2000. Global	2	2000
Multi-antenna systems and interconnection strategies for CDMA wireless access networks. H Yanikomerog lu University of Toronto	2	2000
Theory of Transmit Power Control in Wireless Multiple-Access Systems H Yanikomeroglu Broadband Communications and Wireless Systems Laboratory Seminar Series	2	1999
Power control for code-division multiple access cellular systems B Hashem, H Yanikomeroglu Proc. International Congress on Dynamics and Control of Control Systems		1999

TITLE	CITED BY	YEAR
Correlated interference analysis in CDMA multi-antenna systems H Yanikomeroglu, ES Sousa 1999 IEEE International Conference on Communications (Cat. No. 99CH36311) 1	3	1999
SIR-balanced macro power control for the reverse link of CDMA sectorized distributed antenna system H Yanikomeroglu, ES Sousa Ninth IEEE International Symposium on Personal, Indoor and Mobile Radio	18	1998
CDMA sectorized distributed antenna system H Yanikomeroglu, ES Sousa 1998 IEEE 5th International Symposium on Spread Spectrum Techniques and	28	1998
Power control and number of antenna elements in CDMA distributed antenna systems H Yanikomeroglu, ES Sousa ICC'98. 1998 IEEE International Conference on Communications. Conference	43	1998
Antenna interconnection strategies for personal communication systems E Sousa, H Yanikomeroglu IEEE		1997
Interconnection strategies for wireless access networks H Yanikomeroglu, ES Sousa Proceedings of 8th International Symposium on Personal, Indoor and Mobile	2	1997
Antenna interconnection strategies for personal communication systems H Yanikomeroglu, ES Sousa IEEE Journal on Selected Areas in Communications 15 (7), 1327-1336	20	1997
Antenna Interconnection Strategies for Personal Communication Systems", to appear in IEEE J H Yanikomeroglu, ES Sousa Select. Areas Commun., special issue on Networking and Performance Issues of		1997
CDMA distributed antenna system for indoor wireless communications H Yanikomeroglu, ES Sousa Proceedings of 2nd IEEE International Conference on Universal Personal	46	1993

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A Farajzadeh, A Yadav, H Yanikomeroglu

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J Parekh, E Yackoboski, A Ghasemi, H Yanikomeroglu

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TITLE CITED BY YEAR

H Chafnaji, T Ait-Idir, H Yanikomeroglu, S Saoudi 2010 IEEE Global Telecommunications Conference GLOBECOM 2010

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AU Chaudhry, G Lamontagne, H Yanikomeroglu, H Huang, Y Li, J Liu, ...

Big Data and Machine Learning for Communications 1164 "Why Should I Trust Your IDS?": An Explainable Deep Learning Framework for Intrusion Detection Systems in Internet of ...

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TITLE CITED BY YEAR

# Cooperative relaying in multi-antenna fixed relay networks (2007) IEEE Trans

3

A Adinoyi, H Yanikomeroglu Wireless

Practical Turbo Receiver Design for Throughput-Efficient Relay ARQ Transmissions over Broadband Cooperative MIMO Channels Z El-Moutaouakkil, T Ait-Idir, S Saoudi, H Yanikomeroglu, M Ghogho ARQ 1 (2), 3

Cognitive Radio and Artificial Intelligence in Future Wireless Networks H Yanikomeroglu

IST-4-027756 WINNER II D3. 5.2 v1. 0 Assessment of relay based deployment concepts and detailed description of multi-hop capable RAN protocols as input for the concept group work M Wodczak, P Rost, Q Pérez, H Yanikomeroglu, A Osseiran, M Naden, ...

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# On the Reverse Link Capacity of CDMA Macrodiversity Systems H Yanikomeroglu system 1, 3

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