

# CURRICULUM VITAE

**Prof. Dr. Hasan AMCA**  
(Ph.D. in Mobile Communications)  
(Feb. 2023)



<b>Ph.D. Degree</b>			
Institution	Years Attended	Degree	Major Field
University of Bradford, England	1990 – 1993	Ph. D.	Mobile Communications
<b>M.Sc. Degree</b>			
Institution	Years Attended	Degree	Major Field
University of Essex, England	1984 – 1985	M.S.	Telecommunications
<b>B.Sc. Degree</b>			
Institution	Years Attended	Degree	Major Field
Higher Technological Institute Famagusta, North Cyprus	1979 – 1984	B.Eng.	Electrical and Electronic Eng.

<b>III. ADMINISTRATIVE POSITIONS</b>		
<b>Rank</b>	<b>Institution</b>	<b>Date</b>
Electricity Authority Board Chair	The body responsible for electricity generation, transmission and distribution on North Cyprus.	24 May - 8 Jun 2022
Regulatory Body (Member)	The body responsible for regulating electronic and wireless communication sector on the North Cyprus	2Jul2014-2Jul2019
<b>Vice Rector</b>	<b>International Relations and Recruitment at Eastern Mediterranean University</b>	Oct 2014-Jul 2016
<b>Dean</b>	<b>Eastern Mediterranean University, Engineering Faculty:</b> <i>As the dean of Engineering Faculty, I facilitated the successful completion of the first ABET accreditation process for all the Engineering Faculty programs in 24 October 2010.</i>	March 2008-14
<b>Chairman and Founder</b>	<b>EMU Continuing Education Center (CEC)</b> <b>Run more than 150 small, medium sized and large-scale continuing education programs under the umbrella of “The Learning Society Concept”.</b>	Jun. 04- Jun. 08
Consultant to the Ministry of Transport and Comm.	TRNC Regulatory Body for Radio Communications and Electronic Communications	Apr. 2004-2008
Chairman of the Board of Trustees	Atatürk Teacher’s Academy, Nicosia,	Feb. 2004-2009
Member of Board of Administrators	Eastern Mediterranean University, International Centre	Feb. 2004-2009
Member of Board of Administrators	EMU Distance Education Institute	Oct. 2001-2009
Member of Board of Administrators	EMU Technology Development Center	Oct. 00-Oct. 04
<b>Director</b>	<b>EMU School of Computing and Technology</b>	Feb.00 – Mar.07
<b>Vice Chairman</b>	<b>EMU Electrical and Electronic Engineering Department</b>	1997-2000

## Chairing International Conferences / Meetings

Rank	International Activity	Date
International Co-Chair	International Conference on Soft Computing and Computing with Words (ICSCCW2009)	2-4 Sep. 2009
Hosting Dean of Engineering	Turkey and TRNC 21 <sup>st</sup> Engineering Deans Council Meeting	27-28 Oct. 2010
International Co-Chair	International Conference on Clean Energy (ICCE2010) in Collaboration with Miami University	15-17 Sep. 2010
International Co-Chair	International Conference on High-Speed Optical Networks (HONET2013)	11-13 Dec. 2013
Hosting Dean of Engineering	Workshop on Renewable Energy Infrastructure Deployment Policy in collaboration with EMO and KIB-TEK	30 Mar. 2013
International Co-Chair	International Conference on Clean Energy (ICCE2018) in collaboration with Miami and SUNY	9-11 May 2018

## IV. TEACHING POSITIONS AND RANKS HELD

Institution	Rank	Date	Major Subject
EMU	Lecturer (Prof. Dr.)	2007 – ...	Electrical and Electronic Engineering Dept.
EMU	Lecturer (Assoc. Prof. Dr.)	2000 - 2007	Department of Information Technology
EMU	Lecturer (Assoc. Prof. Dr.)	1999 – 2000	Electrical and Electronic Engineering Dept.
EMU	Lecturer (Assist. Prof. Dr.)	1993 – 1999	Electrical and Electronic Engineering Dept.
EMU	Instructor	1985 – 1990	Electrical and Electronic Engineering Dept.

## V. TEACHING EFFECTIVENESS

### Curriculum Development and Teaching Innovations

- Establishment of the Information Management Department (2 years Distance Education Associate Degree program) at the School of Computing and Technology (October 2002).
- Establishment of the Internet Marketing Department (2 years Associate Degree program) at the School of Computing and Technology (October 2001).
- Participation for the establishment of the Iranian Campus (serving since Fall 2002 with the B.Sc Degree programs in “Computer Studies and Information Technology” and “Architecture”)
- Consignee of the collaboration program with the University of Derby, UK. The collaboration currently involves student exchange programs only and is to be improved to cover dual award degree programs in the near future.

### Opening New Courses

- Artificial Neural Networks (<https://opencourses.emu.edu.tr/course/view.php?id=619>)
- Wireless Communications (<https://opencourses.emu.edu.tr/course/view.php?id=40>)
- Project Management, 2003-2004 (fall) (<http://sct.emu.edu.tr/is519>)
- Advanced Communications (<http://sct.emu.edu.tr/courses>)
- Mobile Communications Systems (<http://sct.emu.edu.tr/courses>)

<b>Courses Taught at the EMU</b>			
<b>Code</b>	<b>Course Title</b>	<b>Departments / Programs</b>	<b>Level</b>
EENG582	Artificial Neural Networks	Biomedical Engineering Mechatronics Engineering Electrical and Electronic Eng. Information Systems Engineering	M.Sc. Ph.D.
EENG226	Signals and Systems	Biomedical Engineering Mechatronics Engineering Electrical and Electronic Eng. Information Systems Engineering	B.Sc.
EENG464	Wireless Communications	Biomedical Engineering Mechatronics Engineering Electrical and Electronic Eng. Information Systems Engineering	B.Sc.
EENG212	Algorithms and Data Structures	Electrical and Electronic Eng.	B.Sc.
EE569	Mobile Communication Systems	Electrical and Electronic Eng.	M.Sc./Ph.D.
IS519	Project Management	Information Systems	M.Sc./Ph.D.
EE111	Introduction To Programming	Electrical and Electronic Eng.	B.Sc.

## **VI. PROFESSIONAL GROWTH**

### **Recent Speeches**

<i>Speech Title</i>	<i>Target Audience</i>	<i>Hosting Institution</i>
<b>Invited Speaker (6<sup>th</sup> Feb. 2023)</b> Artificial Intelligence as a driving force for human development and business success.	Business-people in Lagos, Nigeria	Association for the Advancement of Artificial Intelligence (AAAI, Nigerian Chapter).

### **Research Interests**

- Artificial Neural Networks
- Artificial Intelligence
- Digital Video Broadcast (Terrestrial and Handheld) Systems Air Interface Development
- Channel Estimation and Detection for DVB Systems
- Small Cell Cellular Mobile/Wireless Communications Systems
- Variable Bit Rate Mobile Communication Systems
- Mobile Communication Systems Health Concerns
- Scalable Video Coding for 3G/4G Wireless Communications Systems
- GSM, CDMA, WiMax, WiFi
- Mobile Phone as a Secure Micro Payment Tool

## **THESES AND DISSERTATIONS SUPERVISED**

### **Ph.D. Theses Supervised (Completed)**

#### **a) Current**

1. Safa Yousifi, Power Efficient WBAN at Millimeter-Wave Frequencies...

2. Atefeh Ahmadniai Khajekini, “Evaluation of Multipath TCP (MPTCP) on Wireless Communication Systems”...
3. Mete Ramazan, “Machine-Learning based Multi-User Detection (MUD) Scheme for Mitigating Co-Channel-Interference in Heterogeneous 5G Networks”...

**b) Completed**

1. Ali H. Ulusoy, Interference Cancellation in Multi-User Asynchronous CDMA Systems, July 2004.
2. Ahmet Rizer, Blind Multiuser Detection of CDMA Signals in Multipath Fading Channels with Unknown Delays, Amplitudes and Phases, July 2004.
3. Hüseyin Bilgekul, Multicarrier Quadrature F/P Modulation for Indoor Frequency Selective Multipath Channels. Aug. 1997.

**M.Sc. Dissertations Supervised**

**a) Current**

**b) Completed**

1. Nahla Gamel, “Modified Network Infrastructure to Engage the Impoverished State Operator in the Number Portability System”
2. Mete Ramazan “Multi-User Detection (MUD) Scheme for Mitigating Co-Channel-Interference in Heterogeneous 5G Networks”, Sep. 2018.
3. John S. Wejin., “Experimental performance analysis of multipath TCP path characteristics in streaming UHD HEVC-dash over wireless networks”, 2017.
4. Shahrzad Kavianirad, “Performance of DVB-T System under Multipath Fading with LS Channel Estimation and Equalization”, Aug. 2015.
5. Sohrab Bahrapour, “Efficiency Assessment for Indoor Microwave Wireless Power Transmission Systems”, M.Sc. Thesis, Eastern Mediterranean University, N. Cyprus, Feb. 2015.
6. Muhammad Waqas Malik, “Video Transmission Using Scalable Video Coding For 4g Wireless Communications Systems”, M.Sc. Thesis, Eastern Mediterranean University, N. Cyprus, Feb. 2015.
7. Hüseyin Aşık, “Economically and Functionally Sound Cellular Mobile Communications System Design Consideration for Minimizing Health Concerns”, December 2013.
8. Pooyan Rezai, “Frequency Planning and Co-Channel-Interference Reduction for Deployment of DVB-T2 in National Border Regions”, August 2013.
9. Majid Rahmati, “The Effect of Lognormal Shadowing on the Performance of Variable Bit Rate Transmission Systems over Multipath Fading Channels”, Ağustos 2013.
10. Turgay Çelik, *Soft Decision Feedback Equalisation of Frequency Selective Fading Channels*, 25 July 2001.
11. Mehmet HÜDAVERDİOĞLU, *Improved Excitation CELP Coding*, August 2001.
12. Ahmet Rizer, Blind Multiuser Detection of CDMA Signals in Multipath Fading Channels with Unknown Delays, Amplitudes and Phases. Aug. 1998.
13. Ali H. Ulusoy, Interference Cancellation in Multi-User Asynchronous CDMA Systems. Aug. 1998.
14. Ebrahim SOJERI, Hopfield Neural Network Multi-User Detector for Code Division Multiple Access Communication Systems. Sep. 1997.
15. Tolga YENAL, Adaptive Equalisation for Frequency Selective Multipath Channels Based on Sample Selection. July 1997.
16. Gurcu Öz, CDMA/MCM System to Increase the Capacity of Wireless LAN's, June 1996.
17. Rifat Yalınç, Multi-Carrier Non-Coherent FSK Modulation Technique To Improve The Performance Of Rayleigh Fading Channels. June 1994.

**PUBLICATIONS**

**Articles in SCI/SCI Expanded Journals (17 items)**

1. Mulla, Mustafa; Ulusoy, Ali; Rizaner, Ahmet; Amca, Hasan, "Barzilai-Borwein Gradient Algorithm based Alternating Minimization for Single User Millimeter Wave Systems," IEEE Wireless Communications Letters, accepted for publications.
2. Lara MOHAMMAD HAMZA SHHAB, Ahmet RIZANER, Ali Hakan ULUSOY, Hasan AMCA, Suppressing the Effect of Impulsive Noise on Millimeter-Wave Communications Systems, RADIOENGINEERING, VOL. 28, NO. 1, APRIL 2019.
3. Raziye Nevzat, Yilmaz Amca, Cem Tanova\*, Hasan Amca, "Role of Social Media Community in Strengthening Trust and Loyalty for a University", Computers in Human Behavior 65 (2016) 550-559.
4. Ahmet Rizaner, Ali Hakan Ulusoy, Hasan Amca, "Adaptive fuzzy assisted detector under impulsive noise for DVB-T systems", Optik 127 (2016) 5196–5199.
5. BAYRAKTAR F. and AMCA H., "Interrelations Between Virtual-World and Real-World Activities: Comparison of Genders, Age Groups, and Pathological and Nonpathological Internet Users" CYBERPSYCHOLOGY BEHAVIOR AND SOCIAL NETWORKING Volume: 15 Issue: 5 Pages: 263-269, MAY 2012.
6. Ahmet Rizaner, Ali H. Ulusoy, Hasan Amca and Kadri Hacioglu, "An Adaptive Least Squares Channel Estimation Based On Conjugate Gradient Approach For Multipath Fading CDMA Systems", COMPUTERS AND ELECTRICAL ENGINEERING, Volume: 37 Issue: 6 Pages: 1082-1089, Nov. 2011.
7. M. Ilkan, H. Amca and Ersun Iscioglu "Grooming IT Students for Industry through Industrial Training and Graduation Project Work" INFORMATION, Vol.13 No.4 pp.1219-1242.
8. M. Ilkan, H. Amca and E. Iscioglu, "An Open-Buffer Education Framework Addressing IT Undergraduate Disciplines", INFORMATION, An International Interdisciplinary Journal, Vol.12, No.6, 2009.
9. Hasan AMCA and Erbug CELEBI, "The Mobile Phone Can Be The Perfect Payment Tool" *Electronics World* - September 08, pp.27-31.
10. Ahmet RiZANER, Hasan AMCA, Kadri HACIOGLU and Ali H. ULUSOY, "Iterative near-far resistant channel estimation by using a linear Minimum Mean Squared Error detector", *Wireless Personal Communications*, 42 (4): 537-542 September 2007.
11. Hasan Amca, Ahmet Rizaner, Kadri Hacioglu and Ali Hakan Ulusoy, "Training Sequence Aided Signature Waveform Estimation", *Wireless Personal Communications*, 36 (1): 45-57 January 2006.
12. Rizaner A, Amca H, Hacioglu K, Ulusoy, AH., "Channel estimation by using short training sequences in CDMA systems", *Wireless Personal Communications*, 34 (4): 359-371 SEP 2005.
13. Rizaner A, Amca H, Hacioglu K and Ulusoy AH, "A Decision Aided Channel Estimation Scheme", *Int. J. Electron. Commun. (AEÜ)*, Vol.59, No.1, 2005.
14. A. H. Ulusoy, A. Rizaner, K. Hacioglu, H. Amca, "Performance Analysis of Adaptive Path Selective Decorrelating Detector with Channel Estimation Errors", *Wireless Personal Communications*, Volume: 35 Issue: 3 Pages: 321-327, NOV 2005
15. Ali Hakan Ulusoy, Ahmet Rizaner, Kadri Hacioglu and Hasan Amca, "The Adaptive Path Selective Decorrelating Detector: Performance Analysis with Channel Estimation Errors", *Elsevier Signal Processing*, 84 (10): 1909-1917 OCT 2004.
16. Ali H. ULUSOY, Hasan AMCA, Kadri HACIOĞLU, Ahmet RIZANER, "A Decorrelating Detector for Asynchronous CDMA Channels with Adaptive Path Selection", *IEE Proceedings on Communications*, Volume 149, Issue 03. June 2002
17. Ali H. ULUSOY, Hasan AMCA, Kadri HACIOGLU and Ahmet RIZANER, "Multipath Decorrelating Receiver Using Adaptive Path Selection for Synchronous CDMA Frequency-Selective Fading Channels", *IEE Electronics Letters*, vol. 36, no. 22, pp.1877-1879, October 2000.
18. K. Hacioglu, H. Amca, "Decision Feedback Equalizer Based on Fuzzy Logic," *Electronic Letters*, 35:(7) 548-549 APR 1999.
19. H. Amca, T. Yenal, and K. Hacioglu, "Adaptive Equalization of Frequency Selective Multipath Fading Channels Based on Sample Selection", *IEE Proceedings on Communications*, Vol. 146 No.1, Feb. 1999 pp.55-60.
20. H. BILGEKUL and H. AMCA, *Multicarrier, Quadrature-Frequency/Phase Modulation for Frequency-Selective Fading Channels*. AEÜ Int. Journal of Electronic Communications, July 1998.
21. H. BILGEKUL and H. AMCA, *Multicarrier Transmission Using Quadrature Frequency/Phase Modulation*, *Electronics Letters*, Vol.32, No.22, pp.2051-2052, Oct. 1996.

#### Articles in other Refereed (Non-SCI) Journals (1 item)

1. Wejin, J.S., Amca, H., "Experimental performance analysis of multipath TCP path characteristics in streaming UHD HEVC-dash over wireless networks", *International Journal of Engineering and Technology (UAE)*, 7(2), pp. 88-92

2. S. Bahrapour and H. Amca, "Efficiency Assessment for Indoor Microwave Wireless Power Transmission Systems", *International Journal of Electrical Energy*, Vol. 3, No. 2, June 2015. Pp.80-85.
3. Ali Hakan Ulusoy, Hasan A. Amca, Kadri Hacıoğlu and Ahmet Rızaner, "Eşzamanlı Frekans-Seçici KBÇE Sönümlü Kanallar için Yol Seçimli Çokyollu Tersilişkileyici Alıcı", *İstanbul Üniversitesi Dergisi*, vol. 1, no. 1, 2001 (Invited Paper).
4. Alev Elçi and Hasan Amca "A Multidisciplinary Education Framework That Exploits IT Undergraduates to Eliminating Lack of IT Skills in Non-IT Graduate Disciplines", *TOJET* July 2005 ISSN: 1303-6521 volume 4 Issue 3 Article 5.

#### Articles in Refereed Conference Proceedings (40 items)

1. Mulla, M; Sohail, M; Ulusoy, AH; Uyguroglu, R; Rızaner, A; Amca, H. A Single User Millimeter Wave Massive MIMO System using Defected Ground Structure and Metasurface Antenna Arrays. 29th IEEE Conference on Signal Processing and Communications Applications (SIU 2021). DOI10.1109/SIU53274.2021.9477798.
2. Nahla Gamil, Hasan Amca, and Kadri Buruncuk, "**Modified Network Infrastructure to Engage the Impoverished State Operator in the Number Portability System**", International Society for Engineering Research and Development (ISERD), 12-13 Aug. 2019, Egypt.
3. Hasan Amca, "The Presence of Thermal, Shot, Impulsive and Flicker Noise at Millimeter-Wave Frequencies", International Symposium on Networks, Computers and Communications (ISNCC 2019) | June 18-19, Istanbul, Turkey.
4. Mete Ramazan and Hasan Amca, "**Adopting DVB-M with Multiuser Detection Scheme for Mitigating Co-Channel-Interference in Small Cell 5G Systems**", International Conference on Digital Image and Signal Processing (DISP'19), 29-30 Apr. 2019 University of Oxford, United Kingdom
5. Lara Mohammad Hamza Shhab, Hasan Amca, Ahmet Rızaner, Ali Hakan Ulusoy, "Impact of Impulsive Noise on Millimeter Wave Cellular Systems Performance, The 11th UK-Europe-China Workshop on Millimetre Waves and Terahertz Technologies, 5-7 Sep. 2018, Liverpool, UK.
6. S. Bahrapour and H. Amca, "Efficiency Assessment for Indoor Microwave Wireless Power Transmission Systems", *International Journal of Electrical Energy*, Vol. 3, No.2, June 2015.
7. Hasan AMCA ve Huseyin AŞIK, "Ekonomi, Fonksiyon ve Sağlık Açısından Optimal Mobil İletişim Sistemi Tasarımı", 2. Ulusal EMC Konferansı, 9-11 Eylül 2013, Işık Üniversitesi, Türkiye.
8. Mustafa ILKAN, Hasan AMCA, Şensev ALİCİK, Yeşim Kapsıl ÇIRAK, "Endüstriden Sağlanan Gerçek Hayat Problemleri ile Bilişim Öğrencilerinin Mezuniyetten Önce Endüstriye Adaptasyonlarının Sağlanması, Bilişim Mezunlarından Beklentiler", Mesleki Eğitim Sempozyumu Mayıs 2008, Doğu Akdeniz Üniversitesi, KKTC.
9. Erbuğ ÇALEBİ ve Hasan AMCA, "Mobil Telefonların Mikro-Ödeme Aracı Olarak Kullanılması", Ağ Ve Bilgi Güvenliği Ulusal Sempozyumu 2 ABG'08, 16 -18 Mayıs 2008, Girne, K.K.T.C.
10. Hasan AMCA and Erbug CELEBI, "Using Mobile Telephone as an Operator Independent, Secure Micro-Payment Tool", CISSE2007, International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, 3-12 Dec. 2007, California USA.
11. Hasan Amca And Raygan Kansoy, "A Mobile Telephone Based, Secure Micro-Payment Technology Using The Existing ICT Infrastructure", Chinacom 2007: International Conference On Communications And Networking In China, 22-24 Aug. 2007, Shanghai, China.
12. Ahmet Rızaner, Hasan Amca, Kadri Hacıoglu, Ali Hakan Ulusoy, Ansgar Scherb, "An Adaptive Near-far Resistant Single-user Channel Estimation Algorithm for Multipath Fading DS-CDMA Systems", International Conference on Wireless and Mobile Communications, 29-31 July 2006, Bucharest, Romania.
13. Rızaner, A.; Amca, H.; Ulusoy, A.H.; Hacıoglu, K.; Iterative Least Squares Channel Estimation in Frequency Selective CDMA Systems, *Telecommunications*, 2005. AICT-ICIW '06. International

14. Hasan AMCA and Anders JÖNSSON, “E-Commerce: How Can Businesses Benefit From E-Commerce?” *International Conference on Contemporary Issues in Information Technology in OIC Member States*, July 26-27, 2005, Islamabad, Pakistan.
15. H. Amca and A. Elci, A Multidisciplinary Education Framework to Adopt IT Undergraduates to non-IT Disciplines, *Cyprus Academic Forum, 1<sup>st</sup> All Cyprus Social Sciences and Humanities Conference*, Nicosia, Cyprus, March 2005.
16. H. Amca and M. Ilkan, “Grooming IT Students to Industry through Industrial Training and Graduation Project” *Work Cyprus Academic Forum, 1<sup>st</sup> All Cyprus Social Sciences and Humanities Conference*, Nicosia, Cyprus, March 2005.
17. Alev Elçi and Hasan Amca, “A Multidisciplinary Education Framework that Exploits IT Undergraduates to Eliminating Lack of IT Skills in Non-IT Graduate Disciplines” *International Educational Technologies Conference-IETC 2004*, Sakarya-Turkey, 24-26 November 2004.
18. Ahmet RiZANER, Hasan AMCA, Kadri HACIOGLU and Ali H. ULUSOY, “An Adaptive Least Squares Channel Estimation Approach for Multipath Fading CDMA Systems”, *The IASTED International Conference on Communication Systems and Networks, CSN2004*, Marbella, Spain, 1-3 September 2003.
19. Ahmet RiZANER, Hasan AMCA, Kadri HACIOGLU and Ali H. ULUSOY, “Iterative near-far resistant channel estimation by using a linear MMSE detector”, *The IASTED International Conference on Communication Systems and Networks, CSN2004*, Marbella, Spain, 1-3 September 2004.
20. Ahmet RiZANER, Hasan AMCA, Kadri HACIOGLU and Ali Hakan ULUSOY, “Karar Destekli Kanal Kestirimi”, *The Proceedings of SIU'2003*, Istanbul-Turkey, 18-20 June 2003.
21. Ali Hakan ULUSOY, Ahmet RIZANER, Kadri HACIOGLU and Hasan AMCA, “Performance Analysis of the Path Selective Decorrelating Detector with a Maximum Likelihood Channel Estimator”, *European Wireless 2002, EW2002*, Florence-Italy, 25-28 February 2002.
22. Hasan AMCA, Mustafa ILKAN, Ekrem VAROGLU and Cem YAGLI, “Online Tourism Promotion in the TRNC”. EMU Tourism Congress, Famagusta, North Cyprus, Sep 2002.
23. Alev Elçi ve Hasan Amca, “Uygulama Geliştirme Projesi Yönetimi Eğitiminden Beklentilerimiz”, *19. Türkiye Bilişim Derneği Bilişim Kurultayları*, İstanbul, 3-6 Eylül 2002.
24. Hasan Amca, “Base Station Pollution (!) versus Base Station Benefits (!). Methods to Reduce Base Station Health Concerns”, *International Conference on the Environmental Problems of the Mediterranean Region*, 12-15 April 2002, Near East University, Nicosia, TRNC.
25. Ahmet RIZANER, Kadri HACIOĞLU, Hasan AMCA and Ali H. ULUSOY, "Signature Waveform Estimation By Using Short Training Sequences", *International Conference on Information, Communications and Signal Processing (ICICS 2001)*, Singapore, 15-18 October 2001
26. Hasan AMCA, "Information Technology in Education", *International Information Technology Workshop*, 17-18 March 2001, Ledra Palace, Nicosia, Cyprus.
27. M. Yasar Ozden ve Hasan Amca, "Teknolojinin Neresindeyiz", *Inet-TR 2000*, 9 Kasım 2000, İstanbul, Türkiye
28. Ali H. ULUSOY, Hasan AMCA, Ahmet RIZANER ve Kadri HACIOĞLU, “Adaptive Path Selective Linear Multipath-Decorrelating Receiver for CDMA Frequency-Selective Fading Channels” *IEEE Vehicular Technology Conference, VTC 2000*, Boston-USA, 24 Sep. 2000
29. Ahmet RIZANER, Hasan AMCA, Ali H. ULUSOY ve Kadri HACIOĞLU, “Channel Estimation Using Short Training Sequences” *IEEE Vehicular Technology Conference, VTC 2000*, Boston-USA, 24 Sep. 2000.
30. Ali H. ULUSOY, Hasan AMCA, Ahmet RIZANER ve Kadri HACIOĞLU, “Eşzamansız KBÇE Kanalları için Uyarlanabilir Yol Seçimli Doğrusal Çokyollu Tersilişkileyici Alıcı”, Sinyal İşleme ve Uygulamaları Kurultayı, SIU’2000, Belek-Türkiye, 12 Haziran 2000.
31. Ahmet RIZANER, Hasan AMCA, Ali H. ULUSOY ve Kadri HACIOĞLU, “Kısa Eğitici Dizilerle Kanal Kestirimi”, Sinyal İşleme ve Uygulamaları Kurultayı, SIU’2000, Belek-Türkiye, 12 Haziran 2000.

32. Hasan A. AMCA, Ali H. ULUSOY ve Ahmet RIZANER, Kadri HACIOGLU, “Eşzamansız KBÇE Kanalları için Gözü Kapalı Kanal Kestirimli Doğrusal Çokyollu Tersilişkileyici Alıcı”, Sinyal İşleme ve Uygulamaları Kurultayı, SIU’99, Ankara-Türkiye, 15 June 1999.
33. K. Hacıoglu and H. Amca, “A Fuzzy Logic Based Fremework for Decision Feedback Equalization”, International Conference on Telecommunications, Cheju, Korea, 15-18 June 1999
34. K. Hacıoglu and H. Amca, “A Soft Decision Feedback Equalizer”, International Conference on Telecommunications, Cheju, Korea, 15-18 June 1999
35. H. Amca, T. Yenal and K. Hacıoglu, “A Sample Diversity Decision-Feedback-Equalisation for Multipath Channels,” ICT’98, Athens, Jun. 1998.
36. Soujeri, H. Amca, and K. Hacıoglu, “Çok Kullancılı Sezinim İçin Hopfield Sinir Ağının Kullanımı Üzerine Bir Çalışma,” 5. Sayısal Sinyal İşleme Uygulamaları Konferansı, sayfa 67-72, Kuşadası-Türkiye, Mayıs 1997.
37. H. BILGEKUL and H. AMCA, *Multicarrier, Quadrature-4FSK/BPSK System for Multipath Channels*. EPMCC’97, Second European Personal Mobile Communications Conference, Bonn, Germany, 30 Sep. 1997
38. AMCA and H. BILGEKUL, *The Performance of Indoor Millimetrewave Communications Systems in Multipath LOS Channels*; ICT’96, Int. Conf on Telecomm, Istanbul, Turkey, 13-17 April 1996.
39. H. BILGEKUL ve H. AMCA; *Bir Çok Taşıyıcılı Modülasyon Sistemi*; Elektrik Mühendisliği 6. Ulusal Kongresi, 11-17 Eylül-1995, Bursa-Türkiye.
40. AMCA ve H. BILGEKUL; Oda içi, Milimetre Dalga Boylu, Taşınabilir İletişim Sistemlerinin Karşılaştırılması ve İyileştirme Yöntemlerine Karşı Davranışları. Elektrik Mühendisliği 6. Ulusal Kongresi, 11-17 Eylül-1995, Bursa-Türkiye
41. AMCA; Comparison of the Performance of Multi-Carrier IFSK and M-ary IFSK Modulation Techniques in Indoor Radio Communications Systems; *ICUPC’95*, IEEE Conference on PCS, Nov. 1995, Tokyo.
42. H. AMCA; Evaluation of Adaptive Techniques to Improve the Performance of Indoor Millimetrewave Wireless Communications Systems; *ICUPC’95*, IEEE Conference on PCS, Nov. 1995, Tokyo.
43. H. Amca and P. Watson; *Simulation of MPSK and Wideband FM Modulation in Multipath LOS Channels Subject to Co-Channel-Interference*; European Cooperation in the Field of Scientific and Technical Research (EURO-COST), COST-231, TD (92), Sep. 8-11 1992, Helsinki
44. H. Amca and P. Watson; *Comparison of System Performance by Analysis and Simulation for Indoor Millimetrewave Multipath Channels with a Line-of-Sight*; European Cooperation in the Field of Scientific and Technical Research (EURO-COST), COST-231, TD (92) 58, April 1992, Leeds.
45. H. Amca and P. Watson; *Simulation of Performance of Broadband QPSK Modulated Radio Channel Using Modelled Power-Delay-Profiles for Indoor Propagation with a Dominant LOS Component*; *European Cooperation in the Field of Scientific and Technical Research (EURO-COST)*, COST-231, TD (91) 028, June 4-7, 1991, Lund.

### Research Project Reports

1. Hasan AMCA, “Akademik Değerlendirme Kıstasları’nın Doğu Akdeniz Üniversitesi İçin Önemi, Avantajları, Dezavantajları ve İlgili Kıstasların İyileştirilmesi İçin Öneriler”, DAÜ ÜYK Raporu, 26 Ekim 2004.
2. H. AMCA, “Mobil Telefonlar ve Baz İstasyonları Tarafından Yayılan Mikrodalga Sinyallerin İnsan Sağlığı Üzerindeki Etkileri”, Rapor: KKTC Sağlık Bakanlığı, Haziran 1999.
3. H. AMCA and R.E. SHERRIF, *Computer Simulation of Digital Communications Systems (A Beginners Guide)*, University of Bradford Library, Report No. 467, January 1992.

### Honors Certificate

1. The American Biographical Institute , 2002
2. KAYAD, Başarı Belgesi
3. Who is who.



### Scholarly Awards

1. In 1984, the TRNC Ministry of Education gave 5 scholarships for the first most successful graduates of the Higher Technological Institute (HTI) in order to be trained as lecturers in the HTI. I was awarded one of these scholarships and sent to study Telecommunications M.Sc. in the University of Essex (Colchester, UK).
2. In 1990, I was awarded a Commonwealth Scholarship to study Ph.D. in Mobile Communications at the University of Bradford.

### - Funded Research Grants

### List of Citations

1. Anastasopoulos I, Gazetas G., "Analysis of cut-and-cover tunnels against large tectonic deformation", Source: BULLETIN OF EARTHQUAKE ENGINEERING Volume: 8 Issue: 2 Pages: 283-307 Published: APR 2010.
2. Aydan O, Ohta Y, Hamada M, et al., "RESPONSE AND DAMAGE OF STRUCTURES ALONG THE FAULT RUPTURE TRACES OF THE 2008 WENCHUAN EARTHQUAKE", Conference Information: International Conference on Earthquake Engineering - 1st Anniversary of Wenchuan Earthquake, MAY 09-12, 2009 SW Jiaotong Univ, Chengdu, PEOPLES R CHINA, Source: PROCEEDINGS OF INTERNATIONAL CONFERENCE ON EARTHQUAKE ENGINEERING - THE FIRST ANNIVERSARY OF WENCHUAN EARTHQUAKE Pages: 625-633, Published: 2009.
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8. Anastasopoulos I, Callerio A, Bransby M, et al., "Numerical analyses of fault-foundation interaction", BULLETIN OF EARTHQUAKE ENGINEERING Volume: 6 Issue: 4 Pages: 645-675 Published: NOV 2008.
9. Ulusoy AH, Rizaner A., "Adaptive path selective fuzzy decorrelating detector under impulsive noise for multipath fading CDMA systems", IEEE COMMUNICATIONS LETTERS Volume: 12 Issue: 4 Pages: 228-230 Published: APR 2008.
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13. Schober R, Gerstacker WH, Lampe L., "On suboptimum receivers for DS-CDMA with BPSK modulation", SIGNAL PROCESSING, Volume: 85 Issue: 6 Pages: 1149-1163 Published: JUN 2005.
14. Ulusoy AH, Rizaner A., "Adaptive path selective fuzzy decorrelating detector under impulsive noise for multipath fading CDMA systems", IEEE Communications Letters, Vol: 12, Issue: 4, 228-230, APR 2008.
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16. Schober R, Gerstacker WH, Lampe L, On suboptimum receivers for DS-CDMA with BPSK modulation, *Signal Processing* 85 (6): 1149-1163 JUN 2005.

### - Funded Training Grants

### **Participation in Professional Associations**

- Chamber of Electrical Engineers in N. Cyprus
- Member of IEEE Communications Society
- Member of IEEE Circuits and Systems Society
- Member of IEEE Signal Processing Society
- Member of Cyprus Computer Society

## **VII. SERVICE FOR THE UNIVERSITY AND THE COMMUNITY**

### **Service for the University**

#### *Administrative Duties*

1. Chairman of the EMU Continuing Education Center, <http://sem.emu.edu.tr> (August 2004 - ...)
2. Director of the School of Computing and Technology, <http://sct.emu.edu.tr> (Jan. 2001-...).
3. Vice Chairman of the Electrical and Electronic Engineering Department (1997-2000).

#### *Other criteria that need to be considered by the Board of Trustees, Rector's Office, Directors of Institutes, Deans and Department Chairs*

1. Opening of the EMU Continuing Education Centre Branch in Tehran, in cooperation with the **Ziretech IT Consultancy** company.
2. Project management, fund raising and establishment of the "Computer Network and the Internet infrastructure" for the **Ataturk Teachers Training Academy** in Nicosia.
3. E-EMU TV Program Development for the publicity of Information Technology infrastructure of the Eastern Mediterranean University in TRT
4. E-TRNC TV Program Development for the publicity of Information Technology infrastructure of the TRNC in TRT

### **Committee Assignments**

- Member of the Board of Administrators of the EMU Distance Education Institute (2001 – 2004...)
- Member of the Board of Administrators of the EMU Technology Development Center (2000 – 2004)
- Technical Adviser to the Purchasing Department , 08.03.2004
- Computer Inventory Control Committee (Established by the Board of Trustees), 30.04.2001.
- EE Department Graduate Committee (1996 – 2000)
- EE Department Laboratory Committee (1996 – 2000)
- EE Department Transfer Committee (1985 – 2000)
- EE Department Public Relations Committee (1996 – 2000)

### **Educational Department/Program Development**

1. Founder of the Information Management Distance Education Associate Degree Program, 1<sup>st</sup> June 2001.
2. Consignee of the Memorandum of Understanding Between University of Derby and EMU, 7 September 2001
3. Founder of the Internet Marketing Program, 2 Feb. 2001
4. Consignee of the Memorandum of Understanding Between EMU and Edexcel, 20 June 2002.

### **Participation in Conference Organization**

1. Technical Program Committee member, 2019 Fifth International Conference on Image Information Processing (ICIIP) from November 15-17, 2019, [http://www.juit.ac.in/iciip\\_2019/](http://www.juit.ac.in/iciip_2019/)

2. Invited Speaker, "Quality Assurance in Engineering Education", EEECS'10 International Architecture and Engineering Symposium, "Creating the Future", www.eeecs.org, Lefke European University, Lefke, North Cyprus, 25-26 Nov. 2010.
3. EEECS'10 International Architecture and Engineering Symposium, "Creating the Future", www.eeecs.org, Program Committee Member, Lefke European University, Lefke, North Cyprus, 25-26 Nov. 2010.
4. BAS – 2001 6<sup>th</sup> Syposium on Computer Networks, Program Committee, 21-22 June 2001
5. NEU – CEE 2001 Electrical, Electronic & Computing Engineering Symposium, 23-25 May, Nicosia, TRNC
6. SIU 2001 Düzenleme ve Program Kurulu, 9. IEEE Sinyal İşleme ve Uygulamaları Kurultayı, Doğu Akdeniz Üniversitesi, Mağusa, KKTC, 25-27 Nisan 2001.
7. Teknik Kurul Üyesi, KTMMOB Elektrik Mühendisleri Odası, Yenilenebilir Enerji Kaynakları Kongresi, Magosa, 25-26 Şubat 2000

### Critics Articles

1. Hasan AMCA, "Mobil Telefonlar ve Baz İstasyonları Tarafından Yayılan Mikrodalga Sinyallerin İnsan Sağlığı Üzerindeki Etkileri", Sağlık ve Çevre Bakanlığı - Teknik Rapor , 8 Temmuz 1999.
2. Hasan AMCA, "E-Bakan'a Neden Gerek Var", Kıbrıs Gazetesi, Ağustos 2002. <http://sct.emu.edu.tr/amca/bakana%20neden%20gerek%20var.doc>
3. Hasan AMCA, "Cep Telefonlarının Çalınma Riskini Ortadan Kandırmak İçin Ne Yapmalı", *KKTC Elektrik Mühendisleri Odası Dergisi*. <http://sct.emu.edu.tr/amca/Calinmar.htm>
4. Hasan AMCA ve Tansel SERAL, "İnternet Telefonu", *KKTC Elektrik Mühendisleri Odası Dergisi*, Sayfa 2-4, Sayı 3, Mart 1998.
5. Hasan AMCA ve Mustafa İLKAN, "Cep Telefonu Piline Bir Bakış", *KKTC Elektrik Mühendisleri Odası Dergisi*, Sayfa 6-9, 12 Temmuz 1998.

### Service for the Community

- Technical supervisor to the Global Media Journal-Mediterranean Edition, ISSN 1550-7521, <http://globalmedia.emu.edu.tr/>
- Editorial Board, the Turkish Online Journal Of Educational Technology, <http://www.tojet.net/>
- Chairman of the EMU Continuing Education Center
- Member of the TRNC Regulatory Body for Radio Communications and Electronic Communications, April 2004-...  
*The Regulatory Body is responsible for regulation of the Radio-Communication and Electronic-Communication within the TRNC with reference to service quality control and customer satisfaction issues.*
- Cyprus Informatics Society Founding Chair (<http://cis.emu.edu.tr/>), February 2004
- Chairman of the Board of Trustees of the "Atatürk Teacher's Academy" in Nicosia, TRNC, February 2004
- Consultant to the TRNC Ministry of Health, 2000-...  
*Consulting on the issues related to Mobile Radio Base Stations and Electronic communication issues. The Mobile Radio Base Station planning and inspection committee was responsible for the location and power control of the base stations during and after installation. The committee was also responsible for organizing conferences and lectures for educating the society for healthy use of the mobile telephones and protection against Electromagnetic Radiation Hazards. Preparation and monitoring the tendering of the Polyclinic Information System for the TRNC Ministry of Health.*
- Adviser to the Chamber of Engineers (Nicosia) in Telecommunications and Mobile Radio (GSM) Systems during the establishment of the base stations by TELSİM and KKTCELL
- Consultant to the "TRNC Military Security Forces" for the Electronic Security and Monitoring Systems.

### - Other Services

### Speeches/Seminars

- Hasan Amca, Teknoloji Liginin Neresindeyiz? KKTC Bilişim Adası Çalıştayı, 23-24 Ekim 2009, Acapulco Hotel, Girne, KKTC.
- Davetli Konuşmacı, "Elektromanyetik Alan ve Kamu Sağlığı: Kablosuz Teknolojiler ve Baz İstasyonları",

Telekomünikasyon Sektöründeki Gelişmeler ve Yerel Uygulamalar Sempozyumu, Lefke Avrupa Üniversitesi, 22 Eylül 2008.

- Davetli Konuşmacı, “Elektromanyetik Alanların Canlılar Üzerindeki Etkisi”, Telekomünikasyon Sektöründeki Gelişmeler ve Yerel Uygulamalar Sempozyumu, Yakın Doğu Üniversitesi, KKTC, 7 Nisan 2008.
- Hasan AMCA, Information Technology – Perspectives and Future Trends, Tehran International Fair Center, Tahran, Nov. 2003.
- Hasan AMCA; KKTC’de Bilişim Sektörüne Dayalı Kalkınmanın Gereklere, “KKTC’de Bilişim Sektörü – Fırsatlar ve Dışa Açılma Seminer Paneli, TC İhracat Geliştirme Merkezi Organizasyonu, Jasmin Court Oteli, Girne, 19 Ekim 2001.
- Notes of the seminar on “Global Wireless Communications Future Trends” Electrical and Electronic Engineering Department, 5<sup>th</sup> May 2000.
- Notes of the seminar on “Wireless Application Protocol – WAP” given on 6<sup>th</sup> June 2000.
- Seminer Notları, Mobil Haberleşme’deki Son Gelişmeler, DAU Bilgisayar ve Teknoloji Yüksek Okulu, Eylül 1999.

## VIII. PARTICIPATION IN INTERNATIONAL SCIENTIFIC AND PROMOTIONAL ACTIVITIES

1. Lara Mohammad Hamza Shhab, Hasan Amca, Ahmet Rizaner, Ali Hakan Ulusoy, “Impact of Impulsive Noise on Millimeter Wave Cellular Systems Performance, The 11th UK-Europe-China Workshop on Millimetre Waves and Terahertz Technologies, 5-7 Sep. 2018, Liverpool, UK.
2. Ahmet Rizaner, Hasan Amca, Kadri Hacıoğlu, Ali Hakan Ulusoy, Ansgar Scherb, “An Adaptive Near-far Resistant Single-user Channel Estimation Algorithm for Multipath Fading DS-CDMA Systems”, International Conference on Wireless and Mobile Communications, 29-31 July 06, Bucharest, **Romania**.
3. Presenting “E-Commerce: How Can Businesses Benefit From E-Commerce?” at the *International Conference on Contemporary Issues in Information Technology in OIC Member States*, Islamabad, **Pakistan**, 26 July 2005.
4. Representing TRNC Ministry of Transport and Communication in the Organization of Islamic Countries Summit at Islamabad-**Pakistan**, 26 July 2005.
5. Presenting “Information Technology – Perspectives and Future Trends”, at Tehran International Fair Center, Tahran, **Iran**, Nov. 2003.
6. Visiting the Al Kawarizmi Institute in **Abu Dhabi** for a possible Collaboration with EMU, 28 July 2003.
7. Participation for the establishment of the Iranian Campus (serving since Fall 2002 with the B.Sc Degree programs in “Information Technology” and “Architecture”) of the EMU, **Iran**, Sep. 2002,
8. Presenting "Information Technology in Education", at the *International Information Technology Workshop*, 17-18 March 2001, Ledra Palace, Nicosia, **Cyprus**.
9. Consignee of the “Memorandum of Understanding Between University of Derby and EMU”, 7 September 2001, Derby, **England**.
10. Presenting “Adaptive Path Selective Linear Multipath-Decorrelating Receiver for CDMA Frequency-Selective Fading Channels” at the *IEEE Vehicular Technology Conference, VTC 2000*, Boston-**USA**, 24 Sep. 2000
11. Presenting “Channel Estimation Using Short Training Sequences” at the *IEEE Vehicular Technology Conference, VTC 2000*, Boston-**USA**, 24 Sep. 2000.
12. Presenting “A Fuzzy Logic Based Framework for Decision Feedback Equalization”, at the *International Conference on Telecommunications*, Cheju, **Korea**, 15-18 June 1999.
13. Presenting “A Soft Decision Feedback Equalizer”, at the *International Conference on Telecommunications*, Cheju, **Korea**, 15-18 June 1999.
14. Presenting “Multicarrier, Quadrature-4FSK/BPSK System for Multipath Channels” at the EPMCC’97, Second European Personal Mobile Communications Conference, Bonn, **Germany**, 30 Sep. 1997
15. Presenting “Comparison of the Performance of Multi-Carrier IFSK and M-ary IFSK Modulation Techniques in Indoor Radio Communications Systems” at the *ICUPC’95, IEEE Conference on PCS*, Nov. 1995, **Tokyo**.
16. Presenting “Evaluation of Adaptive Techniques to Improve the Performance of Indoor Millimetrewave Wireless Communications Systems” at the *ICUPC’95, IEEE Conference on PCS*, Nov. 1995, **Tokyo**.
17. Presenting “Comparison of System Performance by Analysis and Simulation for Indoor Millimetrewave Multipath Channels with a Line-of-Sight” at the European Cooperation in the Field of Scientific and Technical Research (EURO-COST), COST-231, TD (92) 58, April 1992, Leeds, **England**.

## IX. REFERENCES

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