CURRICULUM VITAE

I. **NAME**   Yusuf Ozturk

II. **CURRENT INTERESTS**

Engineering Education, Evidence based Management of Instructional Processes, Learning Assessment in Online Courses/Programs, Smart Health, Brain Computer Interfaces, Medical Informatics, Machine Learning, Wireless Networks, Location Based Services, Sensor networks, Electronic Monitoring, Pervasive Computing, Self Configuring Self Healing Networks , Energy Management Networks.

III. **EDUCATION**

A. **Institution**   **Years Attended**   **Degree**   **Major Field**

Institution	Years Attended	Degree	Major Field
Ege University	1987-1991	Ph.D.	Computer Engineering
Ege University	1985-1987	M.Sc.	Computer Engineering
Middle East Tech.Uni.	1980-1985	B.Sc.	Electronics Engineering

B. **Title of Ph.D. Dissertation**

Multichannel , Multidimensional Linear Predictive Systems

IV. **POSITIONS AND RANKS HELD (last 6 positions)**

Institution	Rank	Dates
San Diego State Univ.	Interim Associate Dean for Undergraduate Studies	2019-
San Diego State Univ.	Professor, Electrical and Computer Engineering	2010-
San Diego State Univ.	Coordinator Computer Engineering	2010-2019
San Diego State Univ.	Associate Professor	1998-2010
San Diego State Univ.	Visiting Associate Professor	1996-1998
Ege University	Associate Professor	1992-1996

V. **COURSES DEVELOPED**

Graduate courses developed : Real Time Software Engineering**,** Real Time Operating Systems, Advanced Computer Design, Wireless Sensor networks, High Speed Network Design , Mobile Computing and Communications

Undergraduate courses developed : Probability and Statistics, Software Engineering, Computer Organization, Data and Computer networks, Multimedia Communications , Real Time Operating Systems, Signals and Systems.

Online Courses Developed : Computer Organization

VI.   PUBLICATIONS

Patents and Published Patent Applications

1. Kee S Moon, Yusuf Ozturk, YOUM WooSub, Gunn Hwang, "Apparatus and method of implantable bidirectional wireless neural recording and stimulation", US Patent 10,452,143
2. Yusuf Ozturk, Enis Cetin, "Resting heart rate estimation using PIR sensors", Provisional patent filed by SDSU TTO Office , December 2017.
3. Yusuf Ozturk, Enis Cetin, Microphone Embedded Blanket for Heart-rate and Wheezing Detection, provisional patent filed by SDSU TTO Office, May 2017.
4. Anton Monk, Brett Bernath, Itzhak Gurantz, Ron Porat, Yusuf Ozturk, Ronald B Lee, Wee Peng Goh, Magnus Berggren, "Broadband Local Area Network", US Patent 20150082360.
5. Kee Moon, Yusuf Ozturk, Wireless photoplethysmographic knuckle sensor for capturing finger motion, US Patent Application , Publication Number: US 20140031698 A1, January 2014.
6. Monk, Y.Ozturk, et. al."A Broadband Local Area Network", US Patent *US8631450, Issued* Jan 14, 2014*.*
7. Monk A,Porat R, Goh, W. P., Berggren M., Lee R, Warner E., Bernath B., Ozturk, Y., "Physical layer transmitter for use in a broadband local area network", United States Patent 8621539, December 2013.
8. Kee Moon, Askhan Ashrafi, Khalid Morsi, Yusuf Ozturk," Apparatus and Methods of Low Artifact Biopotential Sensing with Electrolyte gel Impregnated Poros Electrodes for Wireless Signal Acquisition", May 2013.
9. Monk, B. Bernath., Y. Ozturk, R. Porat, " A Broadband cable network utilizing common bit-loading", United States Patent US8588250B2, November 2013.
10. Sunil Kumar, Gordon Lee, Yusuf Ozturk, "Residential and Commercial   Energy Management System" , 6/6/2013, US Patent , Patent No : 20130144451
11. Anton Monk, Brett Bernath, Itzhak Gurantz, Ladd El Wardanj, Ron Porat, Yusuf Ozturk, Ron Lee, Wee-Peng Goh, Magnus Berggren: Multimedia over coaxial cable access protocol. Entropic Communications December 2011: US 8085802
12. Z.L. Wu, R. Lee, Y. Ozturk , "Method of time stamping to enable device bridging over dissimilar buses", United States Patent,   Date of Patent : March 31, 2011, Patent No: 8,582,576.
13. Z.L. Wu, R. Lee, Y. Ozturk , "Method of bus configuration to enable device bridging over dissimilar buses", 09/23/2008 , United States Patent 7428222

Refereed Publications

1. KS Moon, SQ Lee, Y Ozturk, A Gaidhani, JA Cox, "Identification of Gait Motion Patterns Using Wearable Inertial Sensor Network" Sensors, 2019 **(Journal)**
2. X Yan, Y Ozturk, Z Hu, Y Song, "A review on price-driven residential demand response", Renewable and Sustainable Energy Reviews 96, 411-419 , 2018 (**Journal**)
2. Reena Patil, Ege Iseri, Stavros Zanos, Eberhard E. Fetz and Yusuf Ozturk, "Phase-based Cortico-Cortical Connectivity Mapping In Motor Cortex of Nonhuman Primate", IEEE Body Health Informatics and Body Sensor Networks Conference, March 4-7 2018, Las Vegas. **(Conference)**
3. Karlie Gross,Katy Schneider,Alejandra Hernandez, Pragna Paladugu,Kirithika Sathyamoorthy, Kee Moon,Yusuf Ozturk,Sara Gombatto,"Reliability and validity of a low-profile mobile sensor system for ecological monitoring of lumbar spine posture and movement" , APTA CSM 2018, New Orleans, LA February 21-24. **(Conference)**

4. A Gaidhani, KS Moon, Y Ozturk, SQ Lee, W Youm, "Extraction and Analysis of Respiratory Motion Using Wearable Inertial Sensor System during Trunk Motion " Sensors , 2017. http://www.mdpi.com/1424-8220/17/12/2932 **(Journal)**

5. Shane Witsell, Jonathan Hammer, Sridhar Seshagiri, Yusuf Ozturk, " A Magnetoresistive Sensor Array for Nonintrusive Power Consumption Monitoring", IEEE International Conference on Renewable Energy Research and Applications, November 5-8, 2017 , San Diego. **(Conference)**

6. Atieh Kashani, Yusuf Ozturk, "Residential Energy Consumer Behavior Modification via Gamification", IEEE International Conference   on Renewable Energy Research and Applications, November 5-8, 2017 , San Diego. **(Conference).**

7. Kee S. Moon, Yusuf Ozturk, Sung Q. Lee, Woosub Youm, Guun Hwang, and H. W. Park, "Ultrasonic Power Transfer for Medical Implants", Biomedical Engineering Western Regional Conference, Utah, January 19-20, 2017. **(Conference)**

8. Reena Patil,Ke Kang,Yusuf Ozturk, " Spectral Model Based Intent Detection for Multichannel SEMG Signals", IEEE BHI 2017, Feb. 16-19, 2017 Orlando Florida. **(Conference)**

9. Jonathan Hammer, Yusuf Ozturk, Sridhar Seshagiri, Xiaobai Liu, " Current Sensing with GMR Sensors, Distributec Conference and Exhibition, January 31-February 2, San Diego, 2017.http://events.pennwell.com/DTECH2017/Public/SessionDetails.aspx?From Page=Sessions.aspx&SessionID=17658&SessionDateID=499 , **(Conference)**

10. Hemanth Kapu, Kavisha Saraswata,Yusuf Ozturk, Ahmet Enis Cetin, "Resting heart rate estimation using PIR sensors "Infrared Physics & Technology 85 (September 2017), 56-61

11. Su, Yi; Routhu, Sudhamayee; Moon, Kee S; Lee, Sung Q; Youm, WooSub; Ozturk, Yusuf;,A Wireless 32-Channel Implantable Bidirectional Brain Machine Interface", Sensors,16,10,1582,2016. **(Journal)**

12. Yusuf Ozturk, Yi Su, Kee S. Moon, Steve I. Permutter, Stavros Zanos, Eberhard Fetz, "A Wirelessly Bidirectional Brain Machine Interface", Society for Neuroscience Conference, November 12-16, 2016, San Diego. **(Conference)**

13. Paladugu, Pragna; Hernandez, Alejandra; Gross, Karlie; Su, Yi; Neseli, Ahmet; Gombatto, Sara; Moon, Kee; Ozturk, Yusuf; ",A sensor cluster to monitor body kinematics,", IEEE 13th International Conference on Wearable and Implantable Body Sensor Networks (BSN),212-217,2016. **(Conference)**

14. Sergio Enriquez, Yusuf Ozturk, "Advanced cargo security handheld network access device", Digital Forensic and Security (ISDFS), 2016 4th International Symposium on, April 25-27 , 2016, Little Rock Arkansas. **(Conference)**

15. Bhide A., Wright D., Ozturk Y, " Per-packet rate adaptation for unequal protection in 802.11 MIMO networks ", Signal, Image and Video Processing, Volume 10, Issue 7, Pages 1273-1278, Springer, 2016. **(Journal)**

16. Su, Yi; Sun, S.; Ozturk, Y; Tian Mao, "Measurement of Upper Limb Muscle Fatique Using Deep Belief Networks", Journal of Mechanics in Medicine and Biology, 2016

17. Yeongjee Chung, Dustin Wright, Yusuf Ozturk"A User Driven Adaptive Bandwidth Video Streaming System ", Journal of the Korea Institute of Information and Communication Engineering, Volume 19, Issue 4 2015, pp.825-840. **(Journal)**

18. Y Chung, D Wright, Y Ozturk, "A User Driven Adaptable Bandwidth Video System for Remote Medical Diagnosis System", Journal of the Korea society of IT service, Volume 14, Issue 1, pp 99-113, 2015. **(Journal)**

19. Cebrail Ciftlikli, Turgut Tuncer, Yusuf Ozturk, "An OFDM throughput analysis for Cognitive Radio application in contiguous or noncontiguous TV WhiteSpaces", Turk J Elec Eng & Comp Sci (2015) 23: 885 – 899, TUBITAK doi:10.3906/elk-1302-45 T**(Journal)**

20. Simone Massai, Sudhamayee Routhu, Dustin Wright, Kee Moon, Yusuf Ozturk and Sung Lee - "A wireless visual attention brain signal monitoring system", ISOT 2015, Neuchatel, Switzerland. **(Conference)**

21. Kee Moon, Yusuf Ozturk, "A wireless implantable bidirectional braincomputer interface for cortical and spinal plasticity" , SDBC Regional Symposium–September 19,2015. **(Invited) (Conference)**

22. Yusuf Ozturk, "Electronic Monitoring Technologies and Rehabilitative Potential",Turkiye'de denetimli serbestlik 10. Yil semposium, 8-10 December 2015, Istanbul. **(Invited) (Conference)**

23. S. Massai, D. Wright, J. Cox, K.S. Moon, Y. Ozturk, and S.Q. Lee, "Brain Assistive Control of an Exoskeleton for Walking Rehabilitation", Submitted to IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2015), 2015. **(Conference)**

24. Su Y., Aydinalp C., Routhu S., Moon K., Ozturk Y., "Low Power Spinal Motion and Muscle Activity Monitor ",Globecom 2015, San Diego. **(Conference)**

25. Wright, D., Yan, X., Kumar, S., Lee, G., and Ozturk, Y. A Cloud-Based System Architecture for Enabling Consumer Behavior Modification in the Electricity Market. In: Proceedings of International Conference on Soft Computing and Software Engineering. 2015. **(Conference)**

26. Yan, X., Wright, D., Kumar, S., Lee, G., and Ozturk, Y. Real-Time Residential Time-of-Use Pricing: A Closed-Loop Consumers Feedback Approach. In: Proceedings of IEEE GreenTech. 2015. **(Conference)**

27. Kee Moon, Yusuf Ozturk, San Diego Brain Consortium Regional Symposium, "A wireless implantable bidirectional brain computer interface for cortical and spinal plasticity", September 19, 2015. http://sdbrain.org/img/SDBCRegionalSymposium.pdf . **(Conference)**

28. Yan, X., Wright, D., Kumar, S., Lee, G., and Ozturk, Y. Enabling Consumer Behavior Modification through Real Time Energy Pricing. In: Proceedings of the First IEEE Workshop on Pervasive Energy Services. 2015. **(Conference)**

29. Shu Zhao, Yusuf Ozturk, Kee Moon, "Wireless photoplethysmograph knuckle sensor system for measuring finger motions", ISOT 2014, November 5-7 2014, Seattle,WA. **(Conference)**

30. Sung Q. Lee; Woosub Youm; Gunn Hwang; Kee S. Moon; Yusuf Ozturk, "Resonant ultrasonic wireless power transmission for bio-implants", Proc. SPIE 9057, Active and Passive Smart Structures and Integrated Systems 2014, 90570J (10 March 2014). **(Conference)**

31. Yusuf Ozturk, Gordon Lee, D. Senthilkumar and Sunil Kumar, "An Intelligent Home Energy Management System to Improve Demand Response", IEEE Transactions on smart Grid, Volume 4, Issue 2, pages 694-701 June 2013. **(Journal)**

32. Anju Dalal, Yusuf Ozturk, Kee Moon*Finger Motion EMG Signal Classification Based on HTM (Hierarchical Temporal Memory) Technique", 6th International IEEE EMBS Conference on Neural Engineering, 6-8 November 2013, San Diego. **(Conference)**

33. Ozturk, Y., Jha, P., Kumar, S. and Lee, G., "A Personalized Energy Management System For Residential Customers", IEEE Int'l Conference on Power Engineering, Energy and Electric Drives, Istanbul, 2013. **(Conference)**

34. Yusuf Ozturk, Prakash Jha, Sunil Kumar, G Lee, "A gateway sensor network architecture for home energy management", IEEE Conference on Collaboration Technologies and Systems (CTS), 2013, San Diego , USA **(Conference)**

35. Yusuf Ozturk, Vaibhav Nagarnaik, "A Scalable Distributed Dynamic Address Allocation Protocol for Mobile ad-hoc Networks", <u>Wireless Networks</u> , Volume 17 Issue 2, February 2011, pages 357-370. **(Journal)**

36. Senthilkumar, S. Kumar, Y. Ozturk and G. K. Lee, "Scheduling energy usage in a residential energy management system using the branch and bound technique", 26th International Conference on Computers and Their Applications, CATA 2011, pp. 72-77. **(Best Paper Award), (Conference)**

37. Senthilkumar, S. Kumar, Y. Ozturk and G. K. Lee, Optimal Time-of-Use Pricing For Residential Load Control, Proc. of the IEEE Smart Grid Comm Conference, Track: Smart-Virtual Metering - DR – DP, Brussels, 2011. **(Conference)**

38. Kulkarni P, Ozturk Y. "mPHASIS: Mobile patient healthcare and sensor information system", Journal of Network and Computer Applications, Volume 34, January 2011 , pages 402-417. **(Journal)**

39. Yusuf ozturk, Jayesh Sharma, "mVital: A Standards CompLiant Integrated mobile Vital Sign Monitor" ,"Smart Healthcare Applications and Services: Developments and Practices" ,Editors Dr. Carsten Röcker and Prof. Dr. Martina Ziefle, RWTH Aachen University, Germany. Published by IGI international in December 2010. ISBN13: 9781609601805, ISBN10: 1609601807, EISBN13: 9781609601829.**(Book chapter)**

40. S. Senthil, S. Kumar, Y. Ozturk and G. Lee, "*An ANFIS Based Sensor Network for a Residential Energy Management System*", ISCA Int. Conf. Sensor Networks and Applications (SNA 2010), Las Vegas, 2010. **(Conference)**

41. Senthilkumar, S. Kumar, Y. Ozturk and G. K. Lee, "A residential energy management system using an ANFIS predictor to model energy usage" , 23rd International Conference on Computers and Their Applications in Industry and Engineering, CAINE 2010, pp. 303-308. **(Conference)**

42. Stefan Ramsauer, Jigar Shah, Bernd J Krämer, Yusuf Ozturk, Fan Yang, " LIMBO Learning Interactive Multimedia Bundle Object", Proceedings of Fourth Colloquim on International Engineering Education, ISSN 1865-3944, pages 53-71. **(Conference)**

43. Ozturk, Y. and Nagarnaik, V. "Antenna diversity using single antenna in robot communication". *Digital Signal Processing.* Volume 20, Issue 1 (Jan. 2010), pages 155-165. **(Conference)**

44. Vikram Simhadri, Yusuf Ozturk, "RASCor: An Associative Hardware Algorithm for Real Time Stereo", Computers and Electrical Engineering, Volume 35, Issue 3, May 2009, Pages 459-477. **(Journal)**

45. Yusuf Ozturk, "Network in a Box: Facilitating problem-based learning through network emulation.", Computer Applications in Engineering Education, 19: n/a. doi: 10.1002/cae.20322. **(Journal)**

46. Yusuf Ozturk , Emrah Orhun, Chris Bowerman, "Towards A Joint Degree Program In Ambient Computing", ASEE-PSW 2009 Conference Proceedings, San Diego, March 19-20, 2009. **(Conference)**

47. Emrah Orhun, Yusuf Ozturk , Chris Bowerman, "International Cooperation in Ambient Computing Education" , VI International Conference on Engineering and Computer Education, March 8-11, 2009, Buenos Aires, Argentina. **(Conference)**

48. Yusuf Ozturk, Manish Kulkarni, "DIChirp : Direct Injection Bandwidth Estimation", International Journal of Network Management, volume.18 no.5, pages.377-394, September 2008. **(Journal)**

49. Vikram Simhadri, Premanand Chandramani, Yusuf Ozturk, "RASCor: Realtime Associative Stereo Correspondence", IEEE ICIP 2007, September 16-19 San Antonio, Texas. **(Conference)**
50. Prajakta Kulkarni, Yusuf Ozturk "Requirements and Design Spaces of Mobile Medical Care", ACM SIGMOBILE Mobile Computing and Communications Review, Volume 11, Issue 3 (July 2007), Pages: 12 - 30 . **(Journal)**
51. Yusuf Ozturk, "Wireless Sensor Networks", Contributions to Ubiquitous Computing, Springer , Studies in Computational Intelligence Series, 2007, pages : 47-71, ISSN 1860-949x. **(Book Chapter)**
52. Yusuf Ozturk, Veena Sambasivan " Network Memory Among Mobile Hosts", IEEE ICPS2007, July 15-18 2007, Istanbul. **(Conference)**
53. Yusuf Ozturk, Ed. Lafon , " Weaving Distributed Application Flows for Performance Management", IDPT 2006, June 25-30 San Diego, CA. **(Conference)**
54. Yusuf Ozturk, "RTOS-BUILDER: AN integrated RTOS configuration tool for msp430 product line", Texas Instruments MSP430 Advanced Technical Conference, November 2006, Dallas, Texas . **(Conference)**
55. Ed LaFon , Y. Ozturk, " DAPA: Distributed Application Performance Analyzer", IEEE ICICS 2005, 6-9 December 2005, Bangkok, Thailand. **(Conference)**
56. Sridharan Arvind, Y. Ozturk , "CAESP: Computer Aided Education Using Smart Phones", Gets2005, Little Rock, Arkansas 3-5 May 2005. **(Conference)**
57. Xiu Liu , Y. Ozturk, " A Self Configuring Multi-Rooted Tree Topology Sensor Network" , Opentworks 2004, Washington DC, August 29, Sept. 3, 2004. **(Conference)**
58. Y. Ozturk, A. Sridharan " Fast Model Based Stereo Matching Using SOAR", Submitted to IEEE ICIP2004, October 24-27, 2004, Singapure. **(Conference)**
59. L. Loh, Y. Ozturk, "Home PNA 2.0 MAC Protocol: Stability and Performance Analysis" , The 8th IEEE Symposium on Computers and Communications (ISCC'2003) June 30-July 3 , 2003 Antalya Turkey. **(Conference)**

60. Y. Ozturk, H. Abut, " SOAR: System Of Associative Relations", Journal of Image communications, Volume 17, Number 3, March 2002 , pp. 261-276(16). **(Journal)**
61. Y. Ozturk, "Distributed Probability Network ", IEEE , ICASSP 2000, June 5-9, Istanbul, Turkey. **(Conference)**
62. S. Lamouri, Y. Ozturk, and H. Abut, "A New Collaborative Active Learning Tool for Signal Processing Education (Invited Paper)," ICASSP-99, March 1999, Phoenix, AZ. **(Conference)**
63. Y. Ozturk and H. Abut, "Applications of SOAR to Monochromatic Image Restoration," accepted for presentation in the 1999 IEEE International Workshop on Neural Networks for Signal Processing, August 1999, Madison, WI. **(Conference)**
64. Y. Ozturk and H. Abut, "An Integer Associative memory for Gray-Scale Images," submitted for publication in the IEEE ICIP-99, October, 1999, Kobe, Japan. **(Conference)**
65. Y. Ozturk, " A Distributed Sub-probability Network for Pattern Completion and Decision Making", SCI/ISAS'99, July 31-Aug. 4 1999, Orlando - Florida. **(Conference)**
66. Y. Ozturk, " Modeling , Analysis and Simulation of Data Networks", IEEE 10th Annual Workshop on Interconnections within High-Speed Digital Systems, 9-12 May 1999, Hilton of Santa Fe, Santa Fe, NM. **(Invited), (Conference)**
67. D Sheckler, Y Ozturk, H Abut, "Variable size block motion estimation", Signals, Systems & Computers, 1998. Conference Record of the Thirty-Second Asilomar Conference on, pages 868.872, November 2-14, 1998, Pacific Grove, CA. **(Conference)**
68. Ozturk Y., Abut H., "A Novel Similarity Measure for Compression and Classification", Icassp'98, Seattle-WA, May 12-15 1998. **(Conference)**

69. Cinsdikici, M., Yücetürk, A.C., Öztürk, Y., 'A Neural Network Approach to Color Reduction with false Color Elimination', The Sixth Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'97), Ankara, May 1997. **(Conference)**

70. Cinsdikici, M., Yücetürk, A.C., Öztürk, Y., 'ATM Netwokleri için Yapay Sinir Agi Çözümleri (Artificial Neural Network Solutions for ATM Networks)', 14. Ulusal Bilisim Kurultayi (BILISIM'97), Istanbul, Sept.1997. (In Turkish) **(Conference)**

71. Cinsdikici, M., Yücetürk, A.C., Öztürk, Y., 'Partitioned Generalized Euclidean Distance', The Twelfth International Symposium on Computer and Information Sciences (ISCIS'XII), Antalya, October 1997. **(Conference)**

72. Yusuf Ozturk, Huseyin Abut, "System of Associative Relations – SOAR",31st ASILOMAR conference on Signals,Systems and Computers, Pacific Grove,CA, November 2-5, 1997. **(Conference)**

73. Huseyin Abut, Yusuf Ozturk,"Interactive Classroom for Dsp/Communication Courses", ICASSP'97 , Munich, Germany. **(Conference)**

74. M. Erdem , Y. Ozturk ," A New Family of Multivalued Networks ", Neural Networks, Volume 9, Number 6, pp. 979-989, August 1996. **(Journal)**

75. Aziz Can Yuceturk, G. Baskomurcu, Y. Ozturk, " DMAN Parameter optimization with SGA",The fifth Turkish symposium on Artifical intelligence and Neural Networks, TAINN 95 , Bilkent, Ankara, July 5-7 1995. **(Conference)**

76. Erdem, Y. Ozturk, "MAN: Mass Attraction Network", ISCAS'94 IEEE Conference on Circuits and Systems 30 May - 2 June 1994 London, England. **(Conference)**

77. Erdem, G. Baskomurcu, Y. Ozturk, "EMAN: Equivalent Mass Attraction Network", ICANN'94 The European Conference on Artificial Neural Networks, Italy, 26-29 May 1994. IEEE World Congress on Computational Intelligence, June 26- July 2 , 1994, Orlando, Florida. **(Conference)**

78. M. Erdem, Y. Ozturk, "DMAN: Distributed Equivalent Mass Attraction Network",IEEE World 9Congress on Computational Intelligence, June 26- July 2 , 1994, Orlando, Florida. **(Conference)**

79. B. Musaoglu, G. Baskomurcu, Y. Ozturk "Iki Degerli Minimum Capraz Entropi Esikleme", Proceedings of Second Signal Processing and Applications Conference, 8-9 April 1994, Gokova (In Turkish). **(Conference)**

80. Alp. B. Tunc, Y. Ozturk, " Systematic Design of Shape Preserving Morphological Filters", Proceedings of ISCIS IX, The Ninth International Symposium on Computer and Information Sciences, 7-9 November 1994 , Antalya, Turkey. **(Conference)**

81. Gamze Baskomurcu , Y. Ozturk, " Hough Transform on Multilevel Thresholded Images ", Proceedings of ISCIS IX, The Ninth International Symposium on Computer and Information sciences , 7-9 November 1994, Antalya, Turkiye. **(Conference)**

82. G. Baskomurcu, M. Erdem, Y. Ozturk, "Parallel Implementation of Mass Attraction Network", ICANN'94 The European Conference on Artificial Neural Networks, Italy, 26-29 May 1994. TAINN III. **(Conference)**

83. G. Baskomurcu, M. Erdem, Y. Ozturk, "Parallel Implementation of Mass Attraction Network",,Third Turkish Artifical Intelligence and Neural Networks Conference, 22-24 June 1994. **(Conference)**

84. Y.Ozturk, H.Abut, "A Stabilization Algorithm for Multichannel Multidimensional Linear Prediction of Imagery", IEEE Transactions on image processing, January 1992, Volume: 1, Issue: 1, page(s): 101-106. **(Journal)**

85. Y. Ozturk, E. Yalcin, M. Ari "Applications of Digital Image Processing to Determination of Essential Application Parameters During Treatment of Plants with Pesticides", AMSE, Modelling measurement & Control, Vol. 32, No: 4, pp. 39-47, 1992. **(Conference)**

86. Ozturk, E. Aksoy, "Fully Adaptive Karhunen-Loeve Transform Based Vector Quantization of Images", in AMSE, Advances in Modeling and Analysis, A, Vol.13, No: 2, pp. 27-35, 1992. **(Conference)**

87. Ozhan M.H., Kayalci T., Celebi G, Pehlivam M., Ozturk. Yusuf, "Time Domain Analysis of Crackle Waveform in Pulmanory Disease",Medical Journal of Ege University, V.2, Issue 1-2, January-April 1992. **(Conference)**

88. Y.Ozturk, H.Abut, E.Orhun, "Iki Boyutlu cok Bantli Dogrusal ongoru Modellerinin Goruntu Kodlama ve Tanimaya Uygulanmasi", 1991 Journal of Ege University Science Institute (In Turkish). **(Journal)**

89. Kalayci, G. Gelebi ,Y. Ozturk, M. Ozhan, " Automatic Detection and Classification of Crackles by Using a Neural Network", 14th Annual International Conference of IEEE Engineering in medicine and biology society, October 29- November 1, 1992. **(Conference)**

90. N. Aktas , T. Kalayci, Y. Ozturk, G.Celebi , " Diz Eklemi Analizinde Dogrusal Onguru Metodu", 4. National Biophysics Congress, 27-29 may 1992 (In Turkish). **(Conference)**

91. Y. Ozturk, E. Yalcin, M. Ari "Applications of Digital Image Processing to Determination of Essential Application Parameters During Treatment of Plants with Pesticides", Proceedings of the Sixth International Symposium on Computer and Information Sciences, Oct. 30 - Nov. 2 1991, Antalya Turkey. **(Conference)**

92. Y. Ozturk, E. Yalcin, M. Ari "Applications of Digital Image Processing to Determination of Essential Application Parameters During Treatment of Plants with Pesticides", Invited Paper in First International Computer Conference in Science, Technology and Medicine, ISFAHAN -IRAN, December 26-28 1991. **(Conference)**

93. Ozturk, E. Aksoy, "Fully Adaptive Karhunen-Loeve Transform Based Vector Quantization of Images", Proceedings of the Sixth International Symposium on Computer and Information Sciences, October 30 - November 2 1991, Antalya Turkey. **(Conference)**

94. Ozturk, H.Abut, "Applications of Itakura-Saito Type Spectral Distortion Measures to Image Analysis and Classification", Twenty-fourth Asilomar Conference on Signals, Systems & Computers, November 5- 7, 1990 Pacific Grove, California. **(Conference)**

95. Y.Ozturk, H.Abut, "Stability Analysis of Multichannel Linear Predictive Systems", Proceedings of SPIE Visual Communications and Image Processing'90. October 1-4 1990. Lausanne, Switzerland. **(Conference)**

96. Y.Ozturk, H.Abut, "Multichannel Linear Prediction and Applications to Image Coding". Archives fur Electronics and Communication, AEU Band 43, Heft 5, 1989. **(Journal)**

97. Y.Ozturk, O.Demirors, E. Demirors, H.Abut, "Low Rate Encoding of Color Imagery". Proceedings of The Third International Symposium on Computer and Information Sciences, October 29 - November 2 1988, Cesme, Izmir, Turkey. **(Conference)**

98. E.Demirors, O.Demirors, Y.Ozturk, H.Abut, "Interactive Algorithms for Image Transforms", Proceedings of The Third International Symposium on Computer and Information Sciences, October 29 - November 2 1988,Cesme, Izmir, Turkey. **(Conference)**

99. O.Demirors, E.Demirors, Y.Ozturk, H.Abut, "Application of Image Segmentation and Classification", Proceedings of The Third International Symposium on Computer and Information Sciences, October 29 - November 2, 1988, Cesme, Izmir, Turkey. **(Conference)**

Invited Talks and Tutorials at Scholarly Events and Conferences

1. Brain Computer Interfaces, University of Hirosaki, Japan, January 15-25 , 2015, Japan.
   http://www.hirosaki-u.ac.jp/en/2246.html
2. Brain Computer Interfaces Workshop, San Diego, November 14, 2013
3. Enabling Technologies for Residential Demand Response, UC Berkeley, February 2014.
   http://www.youtube.com/watch?v=a6hjQI6lpjA
4. Wireless Sensor Testbed Design, 2nd Ambient Computing Colloquium in Engineering and Education, 2-3 May 2011, Faro, University of Algarve , Portugal
5. Spatially Adaptive Ad-Hoc Networks, IEEE San Diego Section Communications and Computer chapter and Section joint meeting on July 20, 2009.
2. Network in a Box, University of Arkansas Little Rock, April 24, 2009, Little Rock, Arkansas.
3. Spatially Adaptive Ad-Hoc Networks, Colloquium Speaker, University of Arkansas Little Rock, April 24, 2009, Little Rock, Arkansas.
4. Advances in Mobile Ad-Hoc Networking: Spatial Adaptive Approach" SPAWAR Conference Center SSC Pacific Point Loma Topside- A33, Monday, 30 March 2009.
5. Forensic of Cellular Phone Technology – Location Based Services , March 2009, Office of the Public Defender, San Diego.
6. Location Based Services", Mobile Developer's Days 2008, Berlin Technical University, September 10, 2008.
7. "Mobile Python", Half day tutorial in IEEE ICPS 2007 conference, July 15 2007, Istanbul.
8. Recent development "mPhasis" is chosen for advanced technology concepts demonstration in Nokia S60 conference between April 24-26, 2007 Spain.   Presented mPhasis in the exhibition area.
9. "Network in a Box", Half day tutorial in GETS 2006, July 10-14 , Faro Portugal.
10. "Resource Sharing in Mobile Device Communities", IEEE San Diego Section, Vehicular Technology Chapter, Seminar, May 9, 2006.
11. "Wireless Sensor Networks", Fern Universtadt , Germany, June 23, 2004.
12. "Recent developments in Multimedia Technology, Design and Implementation Issues", Invited Lecturer, Summer school on Methodologies and technologies for distance education, 31-july/12 August 1995, Kusadasi-Turkey.
13. " Possibilities on Internet for Higher Education" , Annual Conference of the Med-Campus Program of the European Union 1-6 May 1995 Antalya Turkey.
14. "Neural Networks Solve Image Processing Problems", Muhendis Gozuyle Yapay Sinir Aglari Semineri, Subat 1994, ODTU, Ankara.
15. " Distance Education and improving educational options in the Mediterranean" Fierra Del Levanta, Bari , Italy, 3 may 1996.

Articles about :

1. http://csne-erc.org/engage-enable/post/international-team-collaborates-develop-better-safer-smaller-medical-devices
2. "SDSU Professor creating cross-cultural graduate engineering program", SDSUniverse,
3. "Ces profs qui utilisent INTERNET", Appeared in Telephone , September 1995, pp.66-67.

VII. SERVICE FOR THE UNIVERSITY AND THE COMMUNITY

Miscellaneous Professional Activities (Panels and Technical committees

1. Review for several IEEE , Elsevier and Springer Journals.
2. Registration Chair, IEEE ICME 2018, July 23-28 , San Diego.
3. General Chair, IEEE Icrera 2017, San Diego
4. General co-Chair , ISDFS 2016 , 4rth International Symposium on Digital Forensic and General co-Chair Security, April 25-27, 2016 Little Rock, Arkansas.
5. International Symposium on Digital Forensics and Security, 2016
6. General Chair, Workshop on Brain Computer Interfaces, November 14, 2013, San Diego
7. General Chair, Mobile Developer Days, May 21-22, San Diego.
8. General Chair, Colloquium on International Engineering Education, May 20, 2009 San Diego.
9. Program Committee , International Conference on Wireless Information Networks and Systems (WINSYS), July 7-10, Milan , Italy, 2009
10. Publicity Chair, IEEE International Conference on Pervasive Services, 2007
11. Session Chair, IEEE International Conference on Pervasive Services, 2007
12. Program Committee, , Integrated Design and Process Technology 2007,
13. General co-Chair, Integrated Design and Process Technology, 2006,
14. Program Committee, GETS 2006
15. Program Committee, TAINN 2006
16. Program Committee, TAINN 2005
17. Session Chair, IEEE ICICS 2005
18. Conference co-chair, GETS'2005
19. Finance Chair, ICASSP'2000.
20. Board member at 12th edition of Technorama, Bari , Italy.
21. Technical Committee Member, TAINN'99
22. Technical Committee Member, TAINN'98
23. Technical Committee Member, TAINN'97
24. Technical Committee Member, ISCISS'XIV
25. CENIC Technical Advisory Board Member

SDSU Committee's served
University Committees
1. Taskforce to examine curriculum approval process
2. Shared Governance Policy Committee
3. Enrollment Management Committee , 2018-2019
4. General Education Reporm Committee 2018-
5. General Education Committee , 2018-
6. Faculty Awards and Honors Committee , Chair**,** 2015-2018
7. Faculty Awards and Honors Committee , 2013-2015
8. Senate Instructional and Information Technology Committee, Chair , 2014-2016
9. SDSU Senate , Senator for Engineering , 2014-
10. SDSU AP&P committee on Distance Education
11. SDSU, University Undergraduate Curriculum Committee

College of Engineering Committees
12. Data Champion for College of Engineering
13. Dean Search Committee, 2018
14. Associate Dean Search Committee, Chair, 2015-2016

15. Computer Engineering Program Coordinator , 2013-2019
16. College Parliamentarian, 2013-2019
17. College Curriculum Committee 2012-2014 (Chair)
18. College Curriculum Committee 2009, 2010 (Chair)
19. Computer Policy Committee, 2006-2007 (Chair)
20. Student Outcomes Assessment Committee , 2006-2007 (Chair)
21. Abet Counsel
22. Computer Committee
23. International programs committee, 2005 (Chair)

Electrical and Computer Engineering Committees
24. Search Committee for Signal Processing Position, 2019
25. Search Committee for Embedded Systems Faculty Position, Chair , 2015-2016
26. Search Committee for Smart Health Institute Position, Chair, 2015-2016
27. Department Chair Search Committee, 2015
28. Abet Coordinator , Conducted the first ABET self study for computer engineering program and restructured Electrical Engineering study with the ABET 2000 criteria.
29. RTP Personal Committee, Various Years
30. Faculty Search Committee for all Computer Engineering Faculty Positions
31. Graduate Curriculum Committee
32. Undergraduate Curriculum Committee, Chair , Computer Engineering , Since founding the department.

Professional Affiliations

1. Member of IEEE Signal Processing Society
2. Member of IEEE Power Engineering Society
3. Member Society for Neuroscience
4. Member of IEEE Computer Society
5. Member of IEEE

Professional honors or awards

1. Alumni Award (Monty Award) , San Diego State University, 2014
2. Most Influential Faculty, San Diego State University , 2014
3. Forum Nokia Champion, Nokia Inc.
4. IEEE Senior Member
5. Member, Society for Neuroscience

Thesis Students Advised (At SDSU)
1. Noura Mohammad
2. Kim Phan
3. Atieh Kashani
4. Hemanth Kapu
5. Reena Patil
6. Darpan Damani
7. Jimit Shah
8. Kavisha Saraswata
9. Pragna Paladugu
10. Deependra Kuswah

11. Raghava Krishna Prasad Thottempudi
12. Jonathan Hammer
13. Kirithika Sathyamoorthy
14. Atieh Kashani
15. Sudhamayee Routhu
16. Ke Kang
17. Apoorva Gaidhani
18. Yi Su
19. Sergio Enriquez
20. Anupama Bhide
21. Cemanur Aydinalp
22. Shu Zhao
23. Anju Dalal
24. Prakash Jha
25. Vaibhav Nagarnaik
26. Prajakta Kulkarni
27. Jayesh Sharma
28. Jigar Shah
29. Vikram Simhadri
30. Manish Kulkarni
31. Veena Sambasian
32. Xiu Liu
33. Arvind Sridharan
34. Lawrence Loh
35. Saad Lamouri
36. Ed Lafon
37. Billy DeLong
38. Jaydeep Chokshi
39. Kashyap Nanavati
40. Mahesh
41. Noel Chavady
42. Sedat Akkus
43. Shalin Mehta
44. Yuquan Zhang
45. Aniket Gade
46. Will Holland
47. Supreeth Shanthakumar
48. Prerna Mathur

Research Centers Established and Center Affiliations

1. **Smart Health Institute** , Founding member and co-Director
2. **HealthLink ,** Research Infrastructure Core , Lead research on sensor technologies and ecological momentary assessment
3. **Sensory Motor Neural Engineering,** Member, Development of Hardware and Software for Brain Computer Interfaces

Awarded Grants at SDSU (Awarded – Only SDSU Share of the consortium projects are listed)

Title	Agency Name	Total Budget	F&A	Year
1. Simulation Model Development and Validation (Single PI)	CACI Products Company	50,000	10,000	1998
2. Robot Soccer Project (Single PI)	Institute of Electrical and Electronics Engineers Inc IEEE	9,000	0	2001
3. Integrated Network Traffic Monitoring and Automatic Diagnosis (Single PI)	Intel Corporation	20,046	0	2001
4. International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology (Single PI)	Auburn University Foundation	8,100	600	2003
5. International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology(Single PI)	Auburn University Foundation	8,100	600	2003
6. Wireless Communications and Mobile Computing Laboratory(Single PI)	Nokia	50,000	0	2004
7. International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology(Single PI)	Auburn University Foundation	8,100	600	2004
8. Wearable, Wirelessly-enabled Sensor Network(Single PI)	Elintrix	30,000	6,190	2005
9. International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology(Single PI)	Auburn University Foundation	8,100	600	2005
10. International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology(Single PI)	Auburn University Foundation	6,000	444	2006
11. International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology(Single PI)	Auburn University Foundation	6,900	511	2007
12. International Cooperation in Ambient Computing Education(Single PI)	Troy University	59,000	4,370	2007
13. Mobile Developer Days San Diego Workshop(Single PI)	Nokia	6,876	1,076	2009
14. Modeling and Simulation of Tourist Visitation and Routing Plans(Single PI)	Kiran Analytics Inc.	20,022	2,612	2010
15. An Integrated and Cognitive Home Energy Management System for Demand Response (with Kumar, Lee) (co-PI)	California Institute for Energy & the Environment	250,000	32,597	2011
16. Theoretical Analysis, Explanatory Studies and Technical Services (Single PI)	DOD Space and Naval Warfare Systems Command	34,978	11,890	2011

17. Sustainable Power Module for Implantable Medical Devices Based on Wireless Power Transfer (with Kee Moon, co-PI)	ETRI Electronic and Telecommunications Research Institute	164,454	54,451	2013
18. Enabling Real-Time Residential Pricing with Closed Loop Consumer Feedback (PI , with Kumar and Lee)	Regents of the University of California	197,355	22,480	2014
19. Sustainable Power Module for Implantable Medical Devices Based on Wireless Power Transfer(with Kee Moon, co-PI)	ETRI Electronic and Telecommunications Research Institute	148,351	49,119	2014
20. A Real Time Closed Loop Brain Computer Interface for Recording Visually Evoked Neural Activity(Single PI)	University of California at San Diego	25,000	0	2016
21. Sustainable Power Module for Implantable Medical Devices Based on Wireless Power Transfer (with Kee Moon, co-PI)	ETRI Electronic and Telecommunications Research Institute	135,078	44,725	2016
22. Solar Training and Education for Professionals (STEP)(with Seshagiri , co-PI)	University of Central Florida	16,887	5,629	2016
23. Solar Training and Education for Professionals (STEP))(with Seshagiri , co-PI)	University of Central Florida	22,113	7,420	2017
24. I-Corps: Ambient Sleep Architecture Monitor	National Science Foundation	50,000	5000	2019
TOTAL FUNDED	**Total**	**1,334,460**	**260,914**	

Submitted Proposals (SDSU Only)

Title	Agency Name	Total Budget	F&A	Start Date
1. Simulation Model Development and Validation	CACI Products Company	50,000	10,000	15-Mar-98
2. Investigation of a New Computational Architecture for Solving A Family of Constrained Optimization Problems in Communication	National Science Foundation	93,651	26,822	1-Jan-99
3. Curriculum Development inComputer Networks and Multimedia Communication Systems	National Science Foundation	94,427	10,412	1-Sep-99
4. A Distributed Object Collaboration Framework for Engineering and Science Education	National Science Foundation	99,126	29,250	1-Oct-00
5. Robot Soccer Project	Institute of Electrical and Electronics Engineers Inc IEEE	9,000	0	1-Jan-01
6. Integrated Network Traffic Monitoring and Automatic Diagnosis	Intel Corporation	20,046	0	1-Apr-01

7.	Orincon Information Assurance	Lockheed Martin Orincon Information Assurance	351,434	66,328	1-Aug-03
8.	International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology	Auburn University Foundation	8,100	600	1-Sep-03
9.	A Multivalued Recursive Network Solution to Combinatorial Optimization Problems in Communications and Networking	NSF Dir for Computer and Information Science and Engineering	113,549	38,351	15-May-04
10.	Collaborative Intelligent Mobile Embedded Systems with Real Time Stereoscopic Video	National Science Foundation	270,828	91,472	1-Jun-04
11.	TCP Performance Improvement	Lockheed Martin Orincon Information Assurance	119,044	40,207	1-Aug-04
12.	International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology	Auburn University Foundation	8,100	600	1-Sep-04
13.	Wireless Communications and Mobile Computing Laboratory	Nokia	50,000	0	13-Aug-04
14.	International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology	Auburn University Foundation	8,100	600	1-Sep-03
15.	PESCI: Perceptive Embedded Systems with Collective Intelligence	NSF Dir for Computer and Information Science and Engineering	341,388	113,796	1-Jul-05
16.	Wireless Systems Software Development Program	NSF Directorate for Education and Human Resources	92,246	30,749	1-Jul-05
17.	Wireless Systems Software Development Program	NSF Directorate for Education and Human Resources	65,379	21,793	1-Jan-06
18.	International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology	Auburn University Foundation	8,100	600	1-Sep-05
19.	Wearable, Wirelessly-enabled Sensor Network	Elintrix	30,000	6,190	15-Aug-05
20.	International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Technology	Auburn University Foundation	12,900	955	21-Mar-06
21.	RADAR: Research Skills Across the Degree Award Range	US Department of Education	23,981	1,776	1-Oct-06
22.	Indoor Navigation Aid for Visually Impaired	AT&T Foundation	24,400	0	1-Jan-08

#	Title	Sponsor	Amount	Amount 2	Date
23.	International Cooperation in Ambient Computing Education	Troy University	59,000	4,370	1-Sep-07
24.	MACE: Multidisciplinary Ambient Computing Education	National Science Foundation	81,002	23,509	1-Jan-09
25.	Mobile Developer Days San Diego Workshop	Nokia	6,876	1,076	1-Mar-09
26.	PACL: Pervasive and Ambient Computing Laboratory	National Science Foundation	66,677	22,077	1-Jan-10
27.	Motorola Pervasive and Ambient Computing Summer School	Motorola Foundation	48,989	6,390	1-Aug-10
28.	Modeling and Simulation of Tourist Visitation and Routing Plans	Kiran Analytics Inc.	20,022	2,612	8-Nov-10
29.	Theoretical Analysis, Explanatory Studies and Technical Services	DOD Space and Naval Warfare Systems Command	34,978	11,890	19-Dec-11
30.	Enabling Real-Time Residential Pricing with Closed Loop Consumer Feedback	Regents of the University of California	197,355	22,480	18-Feb-14
31.	Residential Energy Consumer Behavior Modeling and Analysis	CA State Energy Commission	143,990	47,997	1-Jun-15
32.	Low Carbon Emission Smart Microgrid Energy Management	CA State Energy Commission	1,745,399	99,658	1-Jul-15
33.	A Real Time Closed Loop Brain Computer Interface for Recording Visually Evoked Neural Activity	University of California at San Diego	25,000	0	1-Jan-16
34.	SCH: INT: RAD CaRE: Reactive Airway Disease Care Re-Engineered	National Science Foundation	492,101	122,170	1-Sep-16
35.	Wireless Implantable Devices to Implement Novel Therapy for Rehabilitation after Spinal Cord Injury	Conquer Paralysis Now	99,999	0	1-Jun-16
36.	A Sensor Cluster for Monitoring Behavioral and Physical Markers in Alzheimer Care	National Science Foundation	330,045	96,049	1-Jan-17
37.	New Condition Based Maintenance and Energy Command and Control Network Architectures for the Naval Expeditionary Force	TechFlow	45,059	15,415	1-Nov-16
38.	Wireless Innovation between Finland and US (WiFiUS)	National Science Foundation	150,990	50,553	1-Apr-17
39.	Design and Simulation of a New MAC Protocol for Secondary Users of a Licensed Band	ViaSat Inc	37,755	12,627	1-Jan-17
40.	SCH: INT: Real-time Asthma Diagnosis and Care Re-Engineered (RADCaRE)	National Science Foundation	351,059	115,113	1-Sep-17
41.	A Close Loop Cognitive Stimulation System for Alzheimer Care	National Science Foundation	293,469	93,440	1-Sep-17
42.	Energy Innovations Challenge	City of Chula Vista	84,002	28,187	1-Sep-17
43.	Development of IoT Enabled Water and Ambient Air Quality (WAAQ) Monitoring	National Institute of Technology, Rourkela,	48,851	16,392	1-Sep-17

System	India			
	Total	**6,258,717**	**1,282,506**	