**Principal Investigator: Yusuf Ozturk**

**Grant Title: An Active Connected Knee Rehabilitation Device**

**Yusuf Ozturk**

**Professional Preparation**

1. Ege University/Turkey, Computer Engineering, PhD , 1991.
2. Ege University/Turkey, Computer Engineering, MSc, 1987.
3. Middle East Technical University, Electrical and Electronic Eng., B.S., 1985.

**Appointments**

|  |  |  |
| --- | --- | --- |
| Professor | San Diego State University | 2010- |
| Associate Professor | San Diego State University | 1996-2010 |
| Visiting Professor | FernUniverstad in Hagen, Germany |  |
| Associate Professor | Ege University, Dept of Comp. Eng. | 1992-1996. |
| Assistant Professor | Ege University, Dept. of Comp. Eng. | 1991-1992 |
| Research Assistant | Ege University | 1996-1991 |

**Journal Publications (Neural and Associative Systems , Wireless Networks)**

1. Yusuf Ozturk, Gordon Lee, D. Senthilkumar and Sunil Kumar, “An Intelligent Home Energy Management System to Improve Demand Response”, IEEE Transactions on smart Grid. Accepted for Publication 2012.
2. Yusuf Ozturk, Vaibhav Nagarnaik, “A Scalable Distributed Dynamic Address Allocation Protocol for Mobile ad-hoc Networks”, [Wireless Networks](http://www.springerlink.com/content/1022-0038/) , Volume 17 Issue 2, February 2011, pages 357-370.
3. Prajakta Kulkarni , Yusuf Ozturk “mPHASiS : mobile Patient Healthcare And Sensor Information System”, Article in Press, Journal of Networking and Computer Applications, published online April 2010.
4. 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
5. Yusuf Ozturk, Vaibhav Nagarnaik, “ Antenna Diversity Using Single Antenna in Robot Communication”, Elsevier Digital Signal Processing, January 2010, Vol. 20, Issue 1, pages 155-165.
6. 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.
7. Y. Ozturk, H. Abut, “ SOAR: System Of Associative Relations”, Journal of Image communications,, Volume 17, Number 3, March 2002 , pp. 261-276(16)
8. **Other Example Publications**
   * + 1. Y. Ozturk, V. Lade, S. Kumar and G. Lee, “A Gateway Sensor Network Architecture for Home Energy Management”, to be published CTS 2013, May 20-24 San Diego.
       2. G. Lee, S. Kumar and Y. Ozturk, “ A Mobile Energy Management System Employing Aggregation” , to be published in CAINE 2013, September 25{27, 2013,
       3. Y. Ozturk, P. Jha, S. Kumar and G. Lee, “A Personalized Home Energy Management System For Residential Demand Response “, to be published in IEEE Conference on Power Engineering and Energy Conversion, Istanbul 13, 17 May, 2013.
       4. D. 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
       5. D. 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.
       6. D. 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.
       7. Yusuf Ozturk, “Network in a Box: Facilitating Problem-based Learning Through Network Emulation”, in Print, Computer Applications in Engineering Education,2009 Wiley Periodicals, Inc. Comput Appl Eng Educ; Published online in Wiley InterScience ([www.interscience.wiley.com](http://www.interscience.wiley.com)); DOI 10.1002/cae.20322
       8. Yusuf Ozturk, Manish Kulkarni, “DIChirp : Direct Injection Bandwidth Estimation”, International Journal of Network Management, Volume 18, No. 5, pages 377-394, September 2008.

**Books , Book Chapters and Patents**

1. 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
2. Yusuf ozturk, Jayesh Sharma, “mVital: A Standards Compliant Integrated mobile Vital Sign Monitor” , Book chapter , to be published in book “Smart Healthcare Applications and Services: Developments and Practices” ,Editors Dr. Carsten Röcker and Prof. Dr. Martina Ziefle, RWTH Aachen University, Germany. To be published in 2010 by IGI global.

# 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

# Z.L. Wu, R. Lee, Y. Ozturk , “Method of time stamping to enable device bridging over dissimilar buses”, United States Patent, Date of Patent : July 21, 2007, Patent No: US 7,251,703 B1.

# Yusuf Ozturk, “Wireless Sensor Networks”, in Contributions to Ubiquitous Computing, Springer , Studies in Computational Intelligence Series, 2007, pages : 47-71, ISSN 1860-949x.

1. **Synergic Activities**
2. Mobile Developers Days ,San Diego State University, San Diego , April 2-3, 2011
3. Faculty fellow at Spawar , San Diego , Summer 2010 , Summer 2011
4. “Mobile Python”, Half day tutorial in IEEE ICPS 2007 conference, July 15 2007, Istanbul.
5. Development of a graduate program in Computer Science and Engineering between EU and US institutions. Project ,“International Cooperation Using Educational Technology in Graduate Studies in Computer Science and Education”, is supported by Department of Education,FIPSE 2003-2006, $24000
6. **Collaborators and Other Affiliations** 
   1. Bernd Kreamer, FernUniverstadt, Germany
   2. Chris Bowerman, University of Sunderland, Great Britain
   3. Antonio Ruano, University of Algarve, Portugal.
   4. Paul Blair, UCSD
   5. Frank Fitzek, Aalborg University