

Yalcin Sadi, PhD - Curriculum Vitae

CONTACT INFORMATION	Electrical-Electronics Engineering, Faculty of Engineering and Natural Sciences, Kadir Has University, Fatih, Istanbul 34083 Turkey	<i>Phone:</i> 90 (554) 445-4825 <i>E-mail:</i> yalcin.sadi@khas.edu.tr <i>Website:</i> khas.edu.tr
RESEARCH INTERESTS	Power control and scheduling in wireless networks, resource allocation in 5G cellular networks, wireless networked control systems, machine-to-machine communications, internet of things, wireless sensor networks	
EDUCATION	Koc University , Istanbul Turkey <i>Graduate School of Sciences and Engineering</i> PhD, Electrical and Electronics Engineering, GPA: 3.81/4, November 2015 Thesis: Optimal Resource Allocation for Delay and Energy Constrained Wireless Networks Advisor: Sinem Coleri Ergen Koc University , Istanbul Turkey <i>Graduate School of Sciences and Engineering</i> MSc, Electrical and Electronics Engineering, GPA: 3.87/4, September 2012 Thesis: Optimal Power Control, Rate Adaptation and Scheduling for UWB-based Intravehicular Wireless Sensor Networks Advisor: Sinem Coleri Ergen Koc University , Istanbul Turkey <i>College of Engineering</i> BS, Electrical and Electronics Engineering, GPA: 3.78/4 (2nd in department), June 2010 21. Yuzyil College , Bursa Turkey Science, GPA:5.00/5 (1st in school), June 2005	
ACADEMIC EXPERIENCE	Kadir Has University , Istanbul Turkey <i>Assistant Professor</i> in Electrical-Electronics Engineering department of Faculty of Engineering and Natural Sciences. Teaching: EE 402 - Wireless Sensor Networks, Spring 2016 Koc University , Istanbul Turkey <i>Postdoctoral Researcher</i> Participation in research projects in Wireless Networks Laboratory directed by Prof. Sinem C. Ergen. <i>Research Assistant</i> Includes PhD. and MSc. research work and participation in research projects funded by TUBITAK, Turk Telekom and European Union under supervision of Prof. Sinem C. Ergen. Energy Efficient Robust Communication Network Design for Wireless Networked Control Systems TUBITAK (The Scientific and Technological Research Council of Turkey), 2013-2015	Spring 2016 - present Fall 2015 Fall 2010 - Fall 2015

Energy Efficient Machine to Machine Communications
Turk Telekom, 2013-2016

Intra-Vehicular Wireless Sensor Networks

Marie Curie European Reintegration Grant within the 7th European Community Framework Programme, 2010-2014

Teaching Assistant

Fall 2010 - Fall 2015

Duties at various times have included handling office hours and lecturing weekly problem solution sessions in which the undergraduate and graduate students are instructed to do homework practices and cover the missing course subjects.

ELEC 316 - Analog and Digital Communication Systems, Fall 2010, Spring 2012, Spring 2013

ECOE 511 - Digital Communications, Spring 2011, Fall 2011, Fall 2012, Fall 2014

ELEC 310 - Systems and Control, Fall 2013

ENGR 401 - Entrepreneurship, Spring 2014, Spring 2015

Summer Researcher

Summer 2010

Participated in a research project 'Location Estimation based on Fingerprinting in GSM Networks' which is a collaborative research project of Koc University and Berkeley University under supervision of Prof. Sinem C. Ergen.

HONORS AND AWARDS

TUBITAK Scholarship for PhD Students Fall 2012 - Fall 2015

TUBITAK Scholarship for Masters Students Fall 2010 - Spring 2012

Best Student Poster Award in ACM Mobicom S3 Workshop in 2012

Vehbi Koc Scholarships (7 times) in Koc University between Fall 2006 - Spring 2010

Full Merit Scholarship in Koc University between Fall 2005 - Spring 2010

Prime Ministry Special Scholarship for National University Exam accomplishment between Fall 2005 - Spring 2010

11th in National University Exam (OSS) among 1.8 million students in 2005

JOURNAL ARTICLES

Y. Sadi, S.C. Ergen. *Joint Optimization of Wireless Network Energy Consumption and Control System Performance in Wireless Networked Control Systems*, IEEE Transactions on Wireless Communications, submitted.

B. Farayev, Y. Sadi, S.C. Ergen. *Energy Efficient Robust Scheduling of Periodic Sensor Packets for Discrete Rate based Wireless Networked Control Systems*, IEEE Transactions on Wireless Communications, submitted.

Y. Sadi, S.C. Ergen. *Energy and Delay Constrained Maximum Adaptive Schedule for Wireless Networked Control Systems*, IEEE Transactions on Wireless Communications, July 2015.

Y. Sadi, S.C. Ergen. *Minimum Length Scheduling With Packet Traffic Demands in Wireless Ad Hoc Networks*, IEEE Transactions on Wireless Communications, July 2014.

Y. Sadi, S.C. Ergen, Pangun Park. *Minimum Energy Data Transmission for Wireless Networked Control Systems*, IEEE Transactions on Wireless Communications, Apr 2014.

Y. Sadi, S.C. Ergen. *Optimal Power Control, Rate Adaptation, and Scheduling for UWB-Based Intravehicular Wireless Sensor Networks*, IEEE Transactions on Vehicular Technology, Jan 2013.

Y. Sadi, S.C. Ergen. *Fast Scheduling for Delay Minimization in UWB Wireless Networks*, IEEE

Communications Letters, Sep 2012.

CONFERENCES

Y. Sadi, S.C. Ergen. *Joint Optimization of Communication and Controller Components of Wireless Networked Control Systems*, IEEE International Conference on Communications (ICC), June 2015.

B. Farayev, Y. Sadi, S.C. Ergen. *Optimal Power Control and Rate Adaptation for Ultra-Reliable M2M Control Applications*, IEEE Globecom Workshop on Ultra-Low Latency and Ultra-High Reliability in Wireless Communications (ULTRA), Dec 2015.

Y. Sadi, S.C. Ergen. *Delay Constrained Energy Minimization in UWB Wireless Networks*, IEEE Wireless Communications and Networking Conference (WCNC), Apr 2013.

Y. Sadi, S.C. Ergen. *Fast Scheduling for Delay Minimization in UWB Wireless Networks*, ACM Mobicom S3 Workshop, Aug 2012.

B. Gorkemli, Y. Sadi, A.M. Tekalp. *Effects of MGS Fragmentation, Slice Mode and Extraction Strategies on the Performance of SVC with Medium-grained Scalability*, IEEE International Conference on Image Processing (ICIP), Sep 2010.

PATENTS

Y. Sadi, S.C. Ergen. *A Method for Generating a Time Table for Sensors*, International Patent PCT/EP2013/067648.

LANGUAGE SKILLS

- Turkish- native.
- English- IBT Score: 105.

COMPUTER SKILLS

- Programming Languages- C/C++, Java, Python, MATLAB.
- Applications- L^AT_EX, common Mac and Windows text editing, spreadsheet, and presentation software
- Operating Systems- Unix/Linux, Windows, Mac.