

Serdar YILMAZ

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Education

2006 - 2012	Ph.D., Department of Electronics & Communications Engineering, Yıldız Technical University, Istanbul, Turkey Supervisor: Prof. Herman SEDEF Dissertation Title: Modelling And Control Of Pulsatile Flow In Cardiovascular System
2000 - 2003	M.S., Department of Electronics Engineering, Fatih University, Istanbul, Turkey Supervisor: Assit. Prof. Metin Artiklar Thesis Title: The Effect of Multiple Expressions and Size Reduction on Performance of Human Face Classifier
1995 - 2000	B.S., Department of Electronics Engineering, Istanbul University, Istanbul, Turkey Graduate Project Supervisor: Assit. Prof. Aydın AKAN Senior Design Project Title: Digital Filters in Speech Processing
2015 - 2017	Child Development, Two-year Degree, Ataturk University, Istanbul, Turkey
2018- 2019	MSc, Occupational Health and Safety, Biruni University

Seminars and course trainings

2000 Summer Term Intensive English Course, University of California, Riverside
2002 Summer Term IOF English Course, University of California, Riverside
2004 Linux Kullanıcı ve Sunucu Temel Eğitimleri, BT Eğitim
2007 Web Tasarım Seminer Eğitimi, Bilge Adam
2009 Temel Seviye Pnömatik/ElektroPnömatik, Festo
2009 Temel Seviye Hidrolik/ElektroHidrolik, Festo
2010 Automation and Control Systems S7-200 and S7-300, Siemens
2010 Automation and Control Systems S7-400, Siemens
2010 Siemens Simotion Technology Beginner Level Education

Work Experience

2020 – ...	Istanbul University Cerrahpasa, Vocational School of Technical Sciences, Electronics and Automation Department, Instructor Doctor.
2019 – 2020	Istanbul Aydin University, Engineering Faculty, Software Engineering, Assistant Professor
2019– 2020	Istanbul University Cerrahpasa, Vocational School of Technical Sciences, Electronic Technology, Control and Automation Technology Departments, (40/a) Phd Lecturer
2017 – 2019	Istanbul University Cerrahpasa, Vocational School of Technical Sciences, Electronic Technology, Control and Automation Technology Departments, (4 Term) Phd Lecturer
2018 – 2019	Kozmos Yazılım Anadolu Lisesi, Computer Lecturer
2018 – 2018	E Ticaret ve Web Sayfası Tasarımı, Sosyal Hesaplar Yöntimi, Akan San Tic Ltd Şti
2017 – 2018	Research and Service Engineer, Analitika Lab and Process Control Industrial Trade Limited Company -Gama, Training and Commissining For Water Analysis Laboratory Furniture and Devices, İç Anadolu Doğalgaz Elektrik Üretim ve Ticaret Anonim Şirketi, Kırıkkale, Türkiye -Gama, Training and Commissining For Water Analysis Laboratory Furniture and Devices, Boufarik, Cezayir - Training and commissioning of various laboratory equipments
2016 – 2017	Customer care relations, IT and web page manager, Akan Deri San Tic Ltd Şti
2014 – 2016	Asst. Prof., Department of Electrical and Electronics Engineering, Fatih University
2012 – 2014	Project manager, BSA İstanbul Biomedical Engineering “Skin Cancer Detection Device Design”, Science, Industry and Technology Ministry Teknogirişim Projects
2012 – 2014	Project Researcher, BSA İnci Biomedical Engineering “Vascular Imaging Device Design, Science, Industry and Technology Ministry Teknogirişim Capital Support, Teknogirişim Projects.
2004 – 2006	Responsibilities of participation in domestic and international exhibitions, IT and web page manager, Akan San Tic Ltd Şti

Language Skills

English – fluent (2018 Score of YOKDIL = 80)
Turkish – native

Research Interests Process Control Systems, System Identification, Infrared Imaging, Visible light communication, Li-fi, Image Processing, Speech Processing, Optical Communications, Pulsatile Flow Control Systems and Devices, Hemodynamic Research.

Publications

A. Journal Publications (The Publications appears in SCI, SCI Exp., AHCI are shown with *)

- a. * T. Cevik, M. Fettahoglu, N. Cevik, **S. Yilmaz**, "A Framework for Transition from Square Image Processing to Hexagonal Image Processing", Accepted 2019. (SCI, SCI-E)
- b. B. Engin, A. S. Keçici, **S. Yilmaz**, Z. Kutlubay, S. Serdaroglu, Y. Tüzün, "Infrared Imaging In Diagnosis Of Dysplastic Nevi And Malignant Melanoma doi:10.5336/medsci.2015-47244 ", *Türkiye Klinikleri J Med Sci*, Vol. 36, No. 1, Apr. 2016, pp. 14-21
- c. Taner ÇEVİK, **Serdar YILMAZ**, "An Overview of Visible Light Communication Systems", *International Journal of Computer Networks & Communications (IJCNC)*, Vol. 7, No. 6, Nov. 2015, pp. 139-150
- d. * **Serdar YILMAZ**, O. TOKER, N. ARSLAN, H. SEDEF, "Optimal in-vitro realization of pulsatile coronary artery flow waveforms using closed-loop feedback algorithms with multiple flow control devices", *Turkish Journal Of Electrical Engineering & Computer Sciences*, Vol. 20, No. 6, Jan. 2011, pp. 1006-1030
- e. **Serdar YILMAZ**, "Gray Level Based Face Detection Using Template Face Mask and L1 norm", *International Journal of WEB Applications*, Vol. 2, No. 4, Nov. 2010, pp. 243-249
- f. Serdar YILMAZ, M.ARTIKLAR, "On Recognizing Human Faces From Frontal Views", *Journal of Science and Engineering*, Vol. 8, No. 1, Jan. 2005, pp. 41-44

B. Proceedings

- a. Abdullah al Kafee, M.S. Yıldırım, Ş.Okkesim, Serdar Yılmaz, B.Engin, S.Kara, "A Pre-processing Method for Skin Cancer Images to Get ABCD ", *Tıp Teknolojileri Ulusal Kongresi, Nevşehir, Türkiye, Sep. 2014 TIPTEKNO 14 (Biyomedikal Görüntü İşleme ve Yapay Zeka Uygulamaları)*, pp. 85-88
- b. Serdar YILMAZ, N.ARSAN, O.TOKER, H.SEDEF, "Pulsatile Coronary Artery Flow Realization using Flow Control Devices and Close-Loop Algorithms In-Vitro System", *Tıp Teknolojileri Ulusal Kongresi & 16. Biyomedikal Mühendisliği Ulusal Toplantısı, Antalya Türkiye, Oct. 2011 TIP Tekno 11 - Biyomut 2012*, pp. 166-170
- c. Serdar YILMAZ, N.ARSAN, O.TOKER, H.SEDEF, "Realization of blood flow signals using MRI images of femoral and coronary artery in vitro system", *Biyomekanik 2010, Journal of Biomechanics*, 44, 8, İzmir, (2011).

- d. Serdar YILMAZ, N.ARSAN, O.TOKER, H.SEDEF, "Koroner Sinyalinin In-Vitro Sistemde Çeşitli Akış Kontrol Cihaz ve Kapalı Çevrim Algoritmalar ile Gerçeklenmesi", Tıp Teknolojileri Ulusal Kongresi & 16. Biyomedikal Mühendisliği Ulusal Toplantısı, TIP Tekno 11 - Biyomut 2011, Antalya Türkiye, (2011)
- e. Serdar YILMAZ, N.ARSAN, O.TOKER, H.SEDEF, "Femoral ve Koroner Atardamar MRI Görüntülerinden, Kan Akış Sinyallerinin In Vitro Sistemde Oluşturulması", Biyomekanik 2010, İzmir Türkiye, Sep. 2010 V.Ulusal Biyomekanik Kongresi (Uluslararası Katılımlı), 80,pp. 97
- f. Serdar YILMAZ, M.SALİHMUHSİN, "Face Detection Using Template Face Mask", The Third International Conference on the Application of Digital Information and Web Technologies, Istanbul, Jul. 2010 ICADIWT 2010,
- g. Serdar YILMAZ, N.ARSAN, O.TOKER, H.SEDEF, "Pulsatil Akış sinyalinin AC Pompa ve Oransal Pnömatik Valf kullanarak deneysel olarak benzetimi ve karşılaştırılması", 15.Biyomedikal Mühendisliği Ulusal Toplantısı, Porto Bello Hotel Resort&Spa, Antalya, Apr. 2010 Biyomut 2010, 15, 83,pp. 1-6
- h. Serdar YILMAZ, O.TOKER, N.ARSAN, H.SEDEF, Cihan ULAŞ, "PID ve P-Dinamik Değişim Sınırlayıcı (P-DDS) ile Debi Kontrolü", Türkiye Otomatik Kontrol Ulusal Toplantısı 2009, İstanbul, Oct. 2009 TOK 2009, 153,pp. 1-6
- i. Serdar YILMAZ, O.TOKER, N.ARSAN, "Femoral Atardamardaki Kan Akış Sinyalinin Modellenmesi", Biyomut 2009, İZMİR, May. 2009 Biyomedikal Mühendisliği Ulusal Toplantısı 2009, 14, 147,pp. 1-4

C. Book Chapters

D. Cited publications

22 Cited - An overview of visible light communication systems

2 Cited - Optimal in-vitro realization of pulsatile coronary artery flow waveforms using closed-loop feedback algorithms with multiple flow control devices

1 Cited - In vitro pulsatile flow waveform simulation and comparison using AC pump and proportional pneumatic valve

1 Cited - Gray Level Based Face Detection Using Template Face Mask and L1 Norm

1 Cited - Infrared Imaging in Diagnosis of Dysplastic Nevi and Malignant Melanoma

E. Editorial / Refereeing

Editorship: (Turkish Journal of Electrical Engineering & Computer Sciences)

ELK-1408-36 Optimization of PID parameters using BBBC for multiarea AGC scheme in deregulated power system 05 Mar 2015 08 Tem 2015 Completed

Refereeing: (Turkish Journal of Electrical Engineering & Computer Sciences)

ELK-1202-21 Development of Optimal Mamdani-Type Fuzzy Controller Based on a Delayed Model of Diabetes 22 Şub 2012-28 Mar 2012 Completed

ELK-1202-21 Swarm optimization tuned Mamdani fuzzy controller for diabetes delayed model 19 Nis 2012-04 May 2012 Completed

ELK-1207-55 Adaptive feedback control for linear singular systems 28 Tem 2012-20 Ağu 2012 Completed

F. Projects

Skin Cancer Detection Device Design, Science, Industry and Technology Ministry Teknogirişim Capital Support, Teknogirişim Project, Manager, 2012.

Vascular Imaging Device Design, Science, Industry and Technology Ministry Teknogirişim Capital Support, Teknogirişim Project, Researcher, 2012.

The effect of bio-flow vascular wall as a continuous and non-continuous, AV graft venous connection used in dialysis patients, numerical and experimental investigation of flow conditions, Volunteer Researcher, TUBITAK 2007.

For Control Mechanisms of Rail Shear, Improving predict failure and Maintenance Planning System, researcher TUBITAK 2009.

G. Thesis Supervised

MS/MA Thesis/s

Completed

Abdullah Al Kafee, "Skin Cancer Detection using Image Processing Techniques", Fatih Üniversitesi, Aug. 2013.

Phd Thesis/s

I. Awards

2000-2002 High Honour and Honour Degree's, University of California Riverside, Second Language English Course.

2016 Onur Belgesi, Atatürk Üniversitesi Çocuk Gelişimi Bölümü

Given Courses

Courses offered / given in BSc as English

Numerical Analysis
Occupational Health and Safety
Discrete Mathematics
Probability and Statistics
Circuit Theory I + Lab
Circuit Theory II + Lab
Digital Logic Desing + Lab
Signals and Systems
Linear Control Systems + Lab
Intr. to Electical and Electronics Engineering + Lab
Biosignals and Systems + Lab

Courses offered / given in BSc as Turkish

İş Sağlığı ve Güvenliği
Devre Teorisi I + Lab
Devre Teorisi II + Lab
Dijital Lojik Tasarımı + Lab
Sinyaller ve Sistemler
Lineer Kontrol Sistemleri + Lab
Elektrik Elektronik Mühendisliğine Giriş + Lab

İstanbul Üniversitesi Cerrahpaşa TBMYO Anlatılan Dersler

AA Devre Analizi
Hata ve Arıza Arama
Elektronik Ölçme Teknolojisi ve Güvenlik

Mikrodenetleyiciler I-II
Mikrodenetleyici Tabanlı Tasarım - Kontrol
Sayısal Elektronik