

## Doç. Dr. Abdurrahman Kamuran KADIPAŞAOĞLU

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Clemson University, Türkiye 1985 - 1989

Yüksek Lisans, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Türkiye 1981 - 1984

Lisans, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Türkiye 1977 - 1981

### Yabancı Diller

Fransızca, C1 İleri

İspanyolca, B1 Orta

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, Ultrastructural and Antigenic Composition of *Dirofilaria immitis* Cuticle: A Study in Nematode

Hemocompatibility <https://libcat.clemson.edu:443/record=b1402775~S1>, Clemson University, 1989

Yüksek Lisans, Computer-aided Calculation and Maximization of a Single-stage Gas Turbine Efficiency , Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, 1984

### Araştırma Alanları

Tıp, Sağlık Bilimleri, Temel Tıp Bilimleri, Fizyoloji, Cerrahi Tıp Bilimleri, Kalp ve Damar Cerrahisi, Biyomedikal Mühendisliği, Elektrik-Elektronik Mühendisliği, Matematik, Optimizasyon, Temel Bilimler, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç. Dr., Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Biyomedikal Mühendisliği, 2017 - Devam Ediyor

Doç. Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Mekatronik Mühendisliği, 2015 - 2017

Okutman, Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, Protez Malzemeleri Ve Yapay Organlar Anabilim Dalı, 2014 - 2015

Prof. Dr., University of Pittsburgh, Cerrahi, Göğüs-Kalp-Damar Cerrahisi, 2006 - 2007

Okutman, University of Houston, Mechanical Engineering, 2005 - 2006

Öğretim Görevlisi, The University of Texas at Austin, Medicine, Internal Medicine, 1991 - 2006

## Akademik İdari Deneyim

Bölüm Başkanı, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Biyomedikal Mühendisliği, 2016 - 2017

Bölüm Başkanı, University of Pittsburgh, University of Pittsburgh Medical Center, Cardiac Surgery Reseach, 2006 - 2007

Bölüm Başkan Yardımcısı, St. Luke's Episcopal Hospital, Texas Heart Institute, CV Research Laboratory, 1989 - 2006

## Verdiği Dersler

Computer Aided Design, Lisans, 2018 - 2019

System Estimation, Lisans, 2018 - 2019, 2017 - 2018

Introduction to Biomedical Engineering, Lisans, 2019 - 2020, 2018 - 2019

Modeling & Control in Biomedical Systems , Lisans, 2017 - 2018, 2016 - 2017, 2015 - 2016

Engineering Mechanics Part II: Dynamics, Lisans, 2017 - 2018, 2015 - 2016

Introduction to Control Engineering, Lisans, 2018 - 2019

System Dynamics: Modeling & Simulation, Yüksek Lisans, 2018 - 2019, 2017 - 2018, 2016 - 2017

Introduction to Mechatronics Engineering, Lisans, 2017 - 2018, 2016 - 2017

System Dynamics: Modeling & Simulation, Lisans, 2016 - 2017

Mechatronics for Control Engineers , Lisans, 2017 - 2018, 2016 - 2017

Medical Mechatronics, Lisans, 2015 - 2016

Engineering Mechanics Part I: Statics, Lisans, 2015 - 2016

## Yönetilen Tezler

Kadıpaşaoğlu A. K., Öztürk C., Design of a cardiovascular simulation circuit driven by time varying elastance, Yüksek Lisans, D.ONUR(Öğrenci), 2017

KADIPAŞAOĞLU A. K., Kalp Kası Elastansının Modellenmesi, Yüksek Lisans, M.İşcan(Öğrenci), 2016

Kadıpaşaoğlu A. K., Design of a platform for physical performance testing of an axial-flow left-ventricular assist device, Yüksek Lisans, İ.BAŞAR(Öğrenci), 2014

Kadıpaşaoğlu A. K., Özharar S., Validation of the first Turkish axial-flow left-ventricular assist device using particle image velocimetry (PIV), Yüksek Lisans, S.DADGAR(Öğrenci), 2014

Kadıpaşaoğlu A. K., Computational fluid dynamic analysis of axial-flow left-ventricular assist device, Yüksek Lisans, K.TOPTOP(Öğrenci), 2013

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Nonlinear control of a hybrid pneumo-hydraulic mock circuit of the cardiovascular system**  
Alhajyounis A., Aydoğan Y., Canbaş A., Kulakoğlu E., Kurnaz U., Soysal L., Yiğit M., Arısoy D., Kadıpaşaoğlu K.  
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- II. **Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: the VESSEL12 study**  
Rudyanto R. D., Kerkstra S., van Rilowort E. M., Fetita C., Brillet P., Lefevre C., Xue W., Zhu X., Liang J., Oksuz I., et al.  
MEDICAL IMAGE ANALYSIS, cilt.18, sa.7, ss.1217-1232, 2014 (SCI-Expanded)
- III. **Design and Numeric Evaluation of a Novel Axial-Flow Left Ventricular Assist Device**  
Toptop K., Kadipasaoglu K. A.  
ASAIO JOURNAL, cilt.59, sa.3, ss.230-239, 2013 (SCI-Expanded)

- IV. **Continuous flow total artificial heart: Modeling and feedback control in a mock circulatory system**  
Khalil H. A., Kerr D. T., Franchek M. A., Metcalfe R. W., Benkowski R. J., Cohn W. E., Tuzun E., Radovancevic B., Frazier O. H., Kadipasaoglu K. A.  
ASAIO JOURNAL, cilt.54, sa.3, ss.249-255, 2008 (SCI-Expanded)
- V. **Total heart replacement using dual intracorporeal continuous-flow pumps in a chronic bovine model: A feasibility study**  
Frazier O., Tuzun E., Cohn W., Conger J., Kadipasaoglu K.  
ASAIO JOURNAL, cilt.52, sa.2, ss.145-149, 2006 (SCI-Expanded)
- VI. **Part 1: Principles of research on pulsatile and nonpulsatile perfusion during chronic support [2] (multiple letters)**  
Ündar A., Rosenberg G., Myers J. L., Kadipasaoglu K. A., Tuzun E.  
ASAIO Journal, cilt.51, sa.3, ss.303-306, 2005 (SCI-Expanded)
- VII. **Total heart replacement with dual centrifugal ventricular assist devices**  
Frazier O., Tuzun E., Cohn B., Tamez D., Kadipaşaoğlu A. K.  
ASAIO JOURNAL, cilt.51, sa.3, ss.224-229, 2005 (SCI-Expanded)
- VIII. **The effect of intermittent low speed mode upon aortic valve opening in calves supported with a jarvik 2000 axial flow device**  
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ASAIO JOURNAL, cilt.51, sa.2, ss.139-143, 2005 (SCI-Expanded)
- IX. **Evaluation of myocardial function in patients with end-stage heart failure during support with the Jarvik 2000 left ventricular assist device**  
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JOURNAL OF HEART AND LUNG TRANSPLANTATION, cilt.24, sa.2, ss.226-228, 2005 (SCI-Expanded)
- X. **RE: Gregoric ID, Frazier OH, Tamez D, et al: Thrombogenicity of mechanical aortic valves in an animal model: Site specific testing is crucial. ASAIO J 50: 376-380, 2004 [1] (multiple letters)**  
Bianco R. W., Kadipasaoglu K., Gregoric I. D., Frazier O.  
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- XI. **Effect of pump flow mode of novel left ventricular assist device upon end organ perfusion in dogs with doxorubicin induced heart failure**  
Eya K., Tuzun E., Conger J., Chee H., Byler D., Nojiri C., Frazier O., Kadipasaoglu K.  
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- XII. **Biventricular support with the Jarvik 2000 ventricular assist device in a calf model of pulmonary hypertension**  
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- XIV. **Baseline hemodynamic and echocardiographic indices in anesthetized calves**  
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ASAIO JOURNAL, cilt.50, sa.3, ss.267-271, 2004 (SCI-Expanded)
- XV. **Preclinical hemodynamic assessment of a new trileaflet mechanical valve in the aortic position in a bovine model**  
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- XVI. **Preclinical assessment of a trileaflet mechanical valve in the mitral position in a calf model**  
Igor G., Jeff L C., Helmut R., Daniel T., Fred J C., Raymond F S, Antonieta H., Roberto C., Kazuhiro E., Denise B., et al.  
ANNALS OF THORACIC SURGERY, cilt.77, ss.196-202, 2004 (SCI-Expanded)
- XVII. **Transmyocardial laser revascularization as an adjunct to coronary artery bypass grafting A**

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Frazier O, Tuzun, E., Eichstadt H., Boyce S., Lansing, A., March R., Sartori M., Kadıpaşaoğlu A. K.  
TEXAS HEART INSTITUTE JOURNAL, cilt.31, ss.231-239, 2004 (SCI-Expanded)

- XVIII. Myocardial hemodynamics, physiology, and perfusion with an axial flow left ventricular assist device in the calf**  
Tuzun E., Eya K., Chee H., Conger J., Bruno N., Frazier O., Kadipasaoglu K.  
ASAIO JOURNAL, cilt.50, sa.1, ss.47-53, 2004 (SCI-Expanded)
- XIX. Ex vivo resuscitation of adult pig hearts**  
Rosenstrauch D., Akay H. M., Bolukoglu H., Behrens L., Bryant L., Herrera P., Eya K., Tuzun E., Clubb Jr. F. J., Radovancevic B., et al.  
Texas Heart Institute Journal, cilt.30, sa.2, ss.121-127, 2003 (SCI-Expanded)
- XX. Off-pump coronary artery bypass grafting and transmyocardial laser revascularization: Via a left thoracotomy**  
Gregoric I., Messner G., Couto W. J., Sartori M., Cervera R., Kadipasaoglu K., Frazier O.  
Texas Heart Institute Journal, cilt.30, sa.1, ss.13-18, 2003 (SCI-Expanded)
- XXI. Intravascular detection of myocardial ischaemia by spectrometry in the near infrared spectrum in the animal Détection intravasculaire de l'ischémie myocardique par la spectrométrie dans le proche infrarouge en expérimentation animale**  
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- XXII. Sustained angina relief 5 years after transmyocardial laser revascularization with a CO2 laser**  
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- XXIII. Online detection of myocardial ischemia by near infrared spectroscopy with a fiberoptic catheter**  
Baykut D., Gebhard M., Bolukoglu H., Kadıpaşaoğlu A. K., Hennes S., Frazier O., Krian A.  
The Thoracic and cardiovascular surgeon, cilt.49, ss.162-166, 2001 (SCI-Expanded)
- XXIV. Ex vivo resuscitation of porcine hearts**  
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ASAIO Journal, cilt.46, sa.2, ss.166, 2000 (SCI-Expanded)
- XXV. Transmyocardial laser revascularisation (multiple letters) [1]**  
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- XXVI. Transmyocardial Laser Revascularization Effect of Laser Parameters on Tissue Ablation and Cardiac Perfusion**  
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- XXVII. Transmyocardial laser revascularization as a new therapeutic option for refractory coronary artery occlusive disease**  
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- XXVIII. Transmyocardial laser revascularization: Does it have a role in the treatment of ischemic heart disease?**  
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- XXIX. Transmyocardial Laser Revascularization in Allograft Coronary Artery Disease**  
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- XXX. Transmyocardial Laser Revascularization Histopathological Findings**  
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CARDIOVASCULAR PATHOLOGY, cilt.7, ss.63-67, 1998 (SCI-Expanded)

- XXXI. **Refractory angina pectoris in end stage coronary artery disease Evolving therapeutic concepts**  
Frank C S., Ohoward F., Gilian Aj J., Jongste Mike D., Kadipaşaoğlu A. K., Thomas W J., Matthias P H., Denton A C., Bodo E S., Matthias L.  
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- XXXII. **Revascularization procedures in patients with transplant coronary artery disease**  
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- XXXIII. **Transmyocardial laser revascularization Results of a multicenter trial with transmyocardial laser revascularization used as sole therapy for end stage coronary artery disease**  
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- XXXIV. **Laser Tissue Interaction During Transmyocardial Laser Revascularization**  
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- XXXV. **Long and shortterm effects of transmyocardial laser revascularization in acute myocardial ischemia**  
Kadipaşaoğlu A. K., Pehlivanoglu S., Conger J., Sasaki E., Devillalobos D., Cloy M., Clubb F., Cooley D., Frazier O.  
LASERS IN SURGERY AND MEDICINE, cilt.20, 1997 (SCI-Expanded)
- XXXVI. **PTCA in angulated segments: Effects of balloon material, balloon length, and inflation sequence on straightening forces in an in vitro model**  
Barasch E., Conger J. L., Kadipasaoglu K. A., Peters J. J., Nesdahl K., Fenimore J. G., Wilson J. M., Vaughn W. K., Ferguson J. J.  
Catheterization and Cardiovascular Diagnosis, cilt.39, sa.2, ss.207-213, 1996 (SCI-Expanded)
- XXXVII. **Transmyocardial laser revascularization Clinical experience with twelve month follow up**  
Denton A C., OH F., KADIPAŞAOĞLU A. K., Matthias H L., Seckin P., Jeffrey W K., Susan W., Warren H M.  
Journal Of Thoracic And Cardiovascular Surgery, cilt.111, ss.791-799, 1996 (SSCI)
- XXXVIII. **Low dose dobutamine echocardiography thallium scintigraphy and 18 fluorodeoxglucose positron emission tomography for detection of myocardial viability in chronic coronary artery disease**  
Eddy B., Kadipaşaoğlu A. K., Warren H M., K Lance G., Seckin P., Denton A C., O Howard F., William K V.  
JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY, cilt.8, ss.408, 1995 (SSCI)
- XXXIX. **MYOCARDIAL REVASCULARIZATION WITH LASER PRELIMINARY FINDINGS**  
Frazier O., Cooley D., Kadipaşaoğlu A. K., Pehlivanoglu S., Lindenmeir M., Barasch E., Conger J., Wilansky S., Moore W.  
CIRCULATION, cilt.92, ss.58-65, 1995 (SCI-Expanded)
- XL. **Simultaneous evaluation of cardiac wall motion and myocardial ischemic injury by measurement of electrical impedance**  
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ASAIO JOURNAL, cilt.40, ss.846-849, 1994 (SCI-Expanded)
- XLI. **Transmyocardial laser revascularization Anatomic evidence of long term channel patency**  
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TEXAS HEART INSTITUTE JOURNAL, cilt.21, ss.220-224, 1994 (SCI-Expanded)
- XLII. **DETERMINATION OF THE ROLE OF CUTICULAR CARBOHYDRATES IN THE HEMOCOMPATIBILITY OF DIROFILARIA-IMMITIS (NEMATODA)**  
Kadipaşaoğlu A. K., Bilge F., Baier R. E.  
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH, cilt.27, sa.2, ss.207-216, 1993 (SCI-Expanded)
- XLIII. **An ex vivo model for the reperfusion of explanted human hearts**  
Kadipasaoglu K., Bennink G., Conger J., Birovljev S., Sartori M., Clubb Jr. F., Noda H., Ferguson J., Frazier O.  
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- XLIV. **Human intraperitoneal response to a left ventricular assist device with a Ti-6Al-4V alloy surface**  
Capek P., Kadipasaoglu K., Radovancevic B., Furusho N., Clubb Jr. F., Myers T., Duncan J., Mcallister Jr. H., Frazier O.  
ASAIO Journal, cilt.38, sa.3, 1992 (SCI-Expanded)

- XLV. **Preliminary results of intraoperative excimer laser angioplasty: Phase 1: An adjunct to coronary artery bypass surgery**  
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- XLVI. **Surface characterization of the cuticle of dirofilaria immitis**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Model-Free automatic segmentation of the aortic valve in multislice computed tomography images**  
Unay D., Harmankaya I., Oksuz I., Cubuk R., Celik L., Kadipasaoglu K.  
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- II. **Kronik Kalp Yetmezliğinde Mekanik Dolaşım Desteğinin Kısa Öyküsü**  
Kadıpaşaoğlu A. K.  
Turkiye Klinikleri Journal of Cardiovascular Surgery Special Topics, cilt.8, ss.1-36, 2016 (Hakemli Dergi)
- III. **Intravascular detection of ischemia by near-infrared spectroscopy**  
Baykut D., Kadipasaoglu K. A., Bölükoglu H., Gebhard M., Frazier O. H., Zerkowski H.  
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- IV. **Near-infrared spectroscopy of coronary sinus blood for myocardial ischemia detection**  
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- V. **In vitro ablation of human aorta under saline and blood with the Holmium:YAG laser**  
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Lasers in the Life Sciences, cilt.5, ss.95-112, 1992 (Scopus)
- VI. **Development of a clinically relevant canine model of postperfusion syndrome**  
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- VII. **Partial characterization of the adsorbed protein layer on Dirofilaria immitis (Nematoda) cuticle**  
Kadipasaoglu A. K., Bilge F.  
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## **Kitap & Kitap Bölümleri**

- I. **Mekanik Dolaşım Desteğinin Tarihçesi**  
Kadıpaşaoğlu A. K.  
Kalp Yetmezliğinde Mekanik Dolaşım Desteği, Ömer Bayezid, Editör, Akdeniz Üniversitesi Yayınları, Antalya, ss.16-157, 2015
- II. **Biyomedikal Mühendisliği Nedir**  
Kadıpaşaoğlu A. K.  
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- III. **Histopathological Effects of Transmyocardial Laser Revascularization on Myocardium: Assessment of Channel Patency**  
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- IV. **Scientific and Historic Precedents**  
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- V. **Auricular Cartilage Tissue Engineering**  
Doreen R., KADIPAŞAOĞLU A. K., Shelath H., Zoldhelyi P., Frazier O.  
Tissue Engineering and Novel Delivery Systems, Michael J. Yaszemski ve Donald L. Wise, Editör, Marcel Dekker, 264, ss.253-264, 2003
- VI. **Management of Refractory Angina not Amenable to Conventional Therapy**  
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- VII. **Long- and Short-term effects of TMLR in Acute Myocardial Ischemia**  
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- VIII. **Acute and Chronic Effects of TMR in Canine Acute Ischemia and Correlations with the Outcomes of Clinical Trials**  
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- IX. **Transmyocardial Laser Revascularization**  
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- X. **Biomaterials Used in Cardiac Surgery**  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

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- II. **Kalp-Damar Sistemi Elektrik Analog Devresinin Optimal Kontrolü**  
KADIPAŞAOĞLU A. K., Balkan G.  
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## Metrikler

Yayın: 75

Atf (WoS): 1284

Atf (Scopus): 1816

H-İndeks (WoS): 16

H-İndeks (Scopus): 18



## **Akademi Dışı Deneyim**

Türk Göğüs Kalp Damar Cerrahisi Dergisi

McGowan Institute for Regenerative Medicine (MIRM) Annual Retreat

Texas Heart Institute

McGowan Institute for Regenerative Medicine (MIRM)

Institutional Animal Care and Use Committee (IACUC), University of Pittsburgh

The Heart, Lung and Esophageal Surgery Institute, University of Pittsburgh Medical Center

Asia Minor Collectibles, Inc.

Texas Heart Institute

Texas Heart Institute

Texas Heart Institute

Boğaziçi Üniversitesi, Biyomedikal Mühendislik Enstitüsü

Türk Deniz Yolları İşletmeleri