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### KADIPAŞAOĞLU

#### Personal Information

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#### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-8132-2018

ScopusID: 7004490486

Yoksis Researcher ID: 177940

#### Education Information

Doctorate, Clemson University, Turkey 1985 - 1989

Postgraduate, Bogazici University, Faculty Of Engineering, Makine Mühendisliği, Turkey 1981 - 1984

Undergraduate, Bogazici University, Faculty Of Engineering, Makine Mühendisliği, Turkey 1977 - 1981

#### Foreign Languages

French, C1 Advanced

Spanish, B1 Intermediate

English, C1 Advanced

#### Dissertations

Doctorate, Ultrastructural and Antigenic Composition of *Dirofilaria immitis* Cuticle: A Study in Nematode Hemocompatibility <https://libcat.clemson.edu:443/record=b1402775~S1>, Clemson University, Engineering, Bioengineering, 1989

Postgraduate, Computer-aided Calculation and Maximization of a Single-stage Gas Turbine Efficiency, Bogazici University, Institute Of Science, 1984

#### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Human Physiology, Surgery Medicine Sciences, Cardiovascular System Surgery, Biomedical Engineering, Electrical and Electronics Engineering, Mathematics, Optimization, Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Biomedical Engineering, 2017 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechatronics Engineering, 2015 - 2017

Instructor, Bogazici University, Institute Of Biomedical Engineering, Department Of Prostheses Materials And Artificial Organs, 2014 - 2015

Professor, University of Pittsburgh, Cerrahi, Göğüs-Kalp-Damar Cerrahisi, 2006 - 2007

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

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

## Academic and Administrative Experience

Head of Department, Yildiz Technical University, Faculty of Electrical & Electronics, Biomedical Engineering, 2016 - 2017

Head of Department, University of Pittsburgh, University of Pittsburgh Medical Center, Cardiac Surgery Reseach, 2006 - 2007

Deputy Head of Department, St. Luke's Episcopal Hospital, Texas Heart Institute, CV Research Laboratory, 1989 - 2006

## Courses

### Postgraduate

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

### Undergraduate

Computer Aided Design, Undergraduate, 2018 - 2019

System Estimation, Undergraduate, 2018 - 2019, 2017 - 2018

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

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

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

Introduction to Control Engineering, Undergraduate, 2018 - 2019

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

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

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

Medical Mechatronics, Undergraduate, 2015 - 2016

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

## Supervised Theses

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

KADIPAŞAOĞLU A. K., Kalp Kası Elastansının Modellenmesi, Postgraduate, M.İşcan(Student), 2016

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

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

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

## Published journal articles indexed by SCI, SSCI, and AHCI

- 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.  
International Journal of Robust and Nonlinear Control, 2024 (SCI-Expanded)
- 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, vol.18, no.7, pp.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, vol.59, no.3, pp.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, vol.54, no.3, pp.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, vol.52, no.2, pp.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, vol.51, no.3, pp.303-306, 2005 (SCI-Expanded)
- VII. **Total heart replacement with dual centrifugal ventricular assist devices**  
Frazier O., Tuzun E., Cohn B., Tamez D., Kadıpaşaoğlu A. K.  
ASAIO JOURNAL, vol.51, no.3, pp.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**  
Tuzun E., Gregoric I., Conger J., Golden K., Jarvik R., Frazier O., Kadipasaoglu K.  
ASAIO JOURNAL, vol.51, no.2, pp.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**  
Ferrari M., Kadipasaoglu K., Croitoru M., Conger J., Myers T., Gregoric I., Radovancevic B., Letsou G., Frazier O.  
JOURNAL OF HEART AND LUNG TRANSPLANTATION, vol.24, no.2, pp.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.  
ASAIO Journal, vol.51, no.1, pp.121-122, 2005 (SCI-Expanded)
- 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.  
ASAIO JOURNAL, vol.51, no.1, pp.41-49, 2005 (SCI-Expanded)
- XII. **Biventricular support with the Jarvik 2000 ventricular assist device in a calf model of pulmonary hypertension**  
Kindo M., Radovancevic B., Gregoric I., Conger J., Kadipasaoglu K., Tamez D., Moore S., Golden K., Robert K., Frazier O.  
ASAIO JOURNAL, vol.50, no.5, pp.444-450, 2004 (SCI-Expanded)
- XIII. **Thrombogenicity of mechanical aortic valves in an animal model: Site specific testing is crucial**  
Gregoric I., Frazier O., Tamez D., Tuzun E., Shah N., Clubb F., Chee H., Eya K., Byler D., Conger J., et al.  
ASAIO JOURNAL, vol.50, no.4, pp.376-380, 2004 (SCI-Expanded)

- XIV. **Baseline hemodynamic and echocardiographic indices in anesthetized calves**  
Chee H, Tuzun E, Ferrari M, Conger J, Stainback R, Hernandez A, Bruno N, Shah N, Tamez D, Eya K, et al.  
ASAIO JOURNAL, vol.50, no.3, pp.267-271, 2004 (SCI-Expanded)
- XV. **Preclinical hemodynamic assessment of a new trileaflet mechanical valve in the aortic position in a bovine model**  
GREGORIC I. D., EYA K., TAMEZ D., CERVERA R., BYLER D., CONGER J., TUZUN E., CHEE H. K., CLUBB F. J., KADIPAŞAOĞLU A. K., et al.  
JOURNAL OF HEART VALVE DISEASE, vol.13, no.2, pp.254-259, 2004 (SCI-Expanded)
- 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, vol.77, pp.196-202, 2004 (SCI-Expanded)
- XVII. **Transmyocardial laser revascularization as an adjunct to coronary artery bypass grafting A randomized multicenter study with 4yearfollowup**  
Frazier O, Tuzun, E., Eichstadt H., Boyce S., Lansing, A., March R., Sartori M., Kadıpaşaoğlu A. K.  
TEXAS HEART INSTITUTE JOURNAL, vol.31, pp.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, vol.50, no.1, pp.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, vol.30, no.2, pp.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, vol.30, no.1, pp.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**  
Baykut D., Guller U., Gebhard M., Kadipasaoglu K., Zerkowski H., Frazier O.  
Archives des Maladies du Coeur et des Vaisseaux, vol.94, no.9, pp.995-1000, 2001 (SCI-Expanded)
- XXII. **Sustained angina relief 5 years after transmyocardial laser revascularization with a CO2 laser**  
Horvath K., Aranki S., Cohn L., March R., Frazier O., Kadipasaoglu K., Boyce S., Lytle B., Landolfo K., Lowe J., et al.  
Circulation, vol.104, 2001 (SCI-Expanded)
- 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, vol.49, pp.162-166, 2001 (SCI-Expanded)
- XXIV. **Ex vivo resuscitation of porcine hearts**  
Herrera P., Rosenstrauch D., Akay H., Inman R., Beyer E., Frazier O., Radovaneevie B., Kadipasaoglu K.  
ASAIO Journal, vol.46, no.2, pp.166, 2000 (SCI-Expanded)
- XXV. **Transmyocardial laser revascularisation (multiple letters) [1]**  
Mcmurray J., Horvath K., Kadipasaoglu K., Lansing A., Moosdorf R., Hetzer R., Krabatsch T., Schofield P., Sharples L., Caine N., et al.  
Lancet, vol.353, no.9165, pp.1704-1707, 1999 (SCI-Expanded)
- XXVI. **Transmyocardial Laser Revascularization Effect of Laser Parameters on Tissue Ablation and Cardiac Perfusion**  
Kadıpaşaoğlu A. K., Frazier O.  
SEMINARS IN THORACIC AND CARDIOVASCULAR SURGERY, vol.11, pp.4-11, 1999 (SSCI)
- XXVII. **Transmyocardial laser revascularization as a new therapeutic option for refractory coronary artery occlusive disease**

- Frazier O, Kadipasaoglu K.  
European Heart Journal, vol.19, no.10, pp.1420, 1998 (SCI-Expanded)
- XXVIII. **Transmyocardial laser revascularization: Does it have a role in the treatment of ischemic heart disease?**  
Frazier O, Kadipasaoglu K. A., Cooley D. A.  
Texas Heart Institute Journal, vol.25, no.1, pp.24-29, 1998 (SCI-Expanded)
- XXIX. **Transmyocardial Laser Revascularization in Allograft Coronary Artery Disease**  
Frazier O, Kadipaşaoğlu A. K., Radovancevic B., Cihan H. B., Robert J M., Mahmood M., Denton A C.  
ANNALS OF THORACIC SURGERY, vol.65, pp.1138-1141, 1998 (SCI-Expanded)
- XXX. **Transmyocardial Laser Revascularization Histopathological Findings**  
Dedic K, Klima T., Cooley D., Frazier O., Kadipaşaoğlu A. K., Cihan H.  
CARDIOVASCULAR PATHOLOGY, vol.7, pp.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.  
AMERICAN HEART JOURNAL, vol.134, pp.587-602, 1997 (SCI-Expanded)
- XXXII. **Revascularization procedures in patients with transplant coronary artery disease**  
VS P., Branislav R., Bill S., Frazier O., Massin E., Benrey J., KADIPAŞAOĞLU A. K., Cooley D.  
European journal of cardio-thoracic surgery, vol.11, pp.895-901, 1997 (SCI-Expanded)
- XXXIII. **Transmyocardial laser revascularization Results of a multicenter trial with transmyocardial laser revascularization used as sole therapy for end stage coronary artery disease**  
Keith A H., Lawrence H C., Denton A C., John R C., OHoward F., Bartley P G., KADIPAŞAOĞLU A. K., Allan L., Finn M., Robert M., et al.  
Journal Of Thoracic And Cardiovascular Surgery, vol.113, pp.645-654, 1997 (SCI-Expanded)
- XXXIV. **Laser Tissue Interaction During Transmyocardial Laser Revascularization**  
Educo J., Martin F., Kadipaşaoğlu A. K., Tjoshua P., Hans J A., Massoud M., Ashley J W.  
ANNALS OF THORACIC SURGERY, vol.63, pp.640-647, 1997 (SCI-Expanded)
- 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, vol.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, vol.39, no.2, pp.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, vol.111, pp.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, vol.8, pp.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, vol.92, pp.58-65, 1995 (SCI-Expanded)
- XL. **Simultaneous evaluation of cardiac wall motion and myocardial ischemic injury by measurement of electrical impedance**  
Sasaki A., Conger J., Kadipaşaoğlu A. K., Pehlivanoglu S., Frazier O.  
ASAIO JOURNAL, vol.40, pp.846-849, 1994 (SCI-Expanded)
- XLI. **Transmyocardial laser revascularization Anatomic evidence of long term channel patency**

- Cooley D. A., Frazier O., Kadipaşaoğlu A. K., Pehlivanoglu S., Shannon R. L., Angelini P.  
TEXAS HEART INSTITUTE JOURNAL, vol.21, pp.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, vol.27, no.2, pp.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.  
Texas Heart Institute Journal, vol.20, no.1, pp.33-39, 1993 (SCI-Expanded)
- 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, vol.38, no.3, 1992 (SCI-Expanded)
- XLV. **Preliminary results of intraoperative excimer laser angioplasty: Phase 1: An adjunct to coronary artery bypass surgery**  
Frazier O., Diethrich E. B., Johansson B., Conger J. L., Burnett C. M., Bylock A., Kadipasaoglu K. A.  
Lasers in Surgery and Medicine, vol.12, no.1, pp.7-12, 1992 (SCI-Expanded)
- XLVI. **Surface characterization of the cuticle of dirofilaria immitis**  
Bilge F. H., Kadipasaoglu K. A., McCormick C. M., Baier R. E.  
Journal of Biomedical Materials Research, vol.23, no.9, pp.1027-1047, 1989 (SCI-Expanded)

## Articles Published in Other Journals

- 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.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.27, no.2, pp.122-128, 2021 (ESCI)
- II. **Kronik Kalp Yetmezliğinde Mekanik Dolaşım Desteğinin Kısa Öyküsü**  
Kadipaşaoğlu A. K.  
Turkiye Klinikleri Journal of Cardiovascular Surgery Special Topics, vol.8, pp.1-36, 2016 (Peer-Reviewed Journal)
- III. **Intravascular detection of ischemia by near-infrared spectroscopy**  
Baykut D., Kadipasaoglu K. A., Bölükoglu H., Gebhard M., Frazier O. H., Zerkowski H.  
Asian Cardiovascular and Thoracic Annals, vol.9, no.4, pp.296-301, 2001 (Scopus)
- IV. **Near-infrared spectroscopy of coronary sinus blood for myocardial ischemia detection**  
Baykut D., Gebhard M., Kadipasaoglu K., Frazier O., Zerkowski H.  
Cardiovascular Engineering, vol.5, no.4, pp.276-281, 2000 (Scopus)
- V. **In vitro ablation of human aorta under saline and blood with the Holmium:YAG laser**  
Kadipasaoglu K., Rastegar S., Sartori M., Watson L., Clubb -Jr. F., Conger J., Hare W., Edelen B., Moore M., Frazier O.  
Lasers in the Life Sciences, vol.5, pp.95-112, 1992 (Scopus)
- VI. **Development of a clinically relevant canine model of postperfusion syndrome**  
Baldwin R. T., Kadipasaoglu K. A., Radovancevic B., Gordon L. L., Furusho N., Matsuwaka R., Conger J. L., Parnis S. M., Hare W. D., Clubb F. J., et al.  
ASAIO Transactions, vol.37, no.3, 1991 (Scopus)
- VII. **Partial characterization of the adsorbed protein layer on Dirofilaria immitis (Nematoda) cuticle**  
Kadipasaoglu A. K., Bilge F.  
Parasitology Research, vol.75, no.7, pp.554-558, 1989 (Scopus)

## Books

- I. **Mekanik Dolaşım Desteğinin Tarihiçesi**

Kadıpaşaoğlu A. K.

in: Kalp Yetmezliğinde Mekanik Dolaşım Desteği, Ömer Bayezid, Editor, Akdeniz Üniversitesi Yayınları, Antalya, pp.16-157, 2015

**II. Biyomedikal Mühendisliği Nedir**

Kadıpaşaoğlu A. K.

in: Biyomedikal Mühendisliğin Temelleri, Musa Hakan Asyalı, Sadık Kara, Bülent Yılmaz, Editor, Nobel Yayın Dağıtım, Ankara, pp.1-15, 2014

**III. Histopathological Effects of Transmyocardial Laser Revascularization on Myocardium: Assessment of Channel Patency**

KADIPAŞAOĞLU A. K., Tuzun E., Frazier O.

in: Myocardial Laser Revascularization, C.R. Bridges, K.A. Horvath, R.C. Chiu, , Editor, Blackwell Publishing, pp.48-64, 2006

**IV. Scientific and Historic Precedents**

Frazier O., Bergheim M., KADIPAŞAOĞLU A. K.

in: Myocardial Laser Revascularization, C.R. Bridges, K.A. Horvath, R.C. Chiu, Editor, Blackwell Publishing, pp.1-15, 2006

**V. Auricular Cartilage Tissue Engineering**

Doreen R., KADIPAŞAOĞLU A. K., Shelath H., Zoldhelyi P., Frazier O.

in: Tissue Engineering and Novel Delivery Systems, Michael J. Yaszemski ve Donald L. Wise, Editor, Marcel Dekker, 264, pp.253-264, 2003

**VI. Management of Refractory Angina not Amenable to Conventional Therapy**

Frazier O., Tuzun E., KADIPAŞAOĞLU A. K.

in: Surgery of Coronary Artery Disease, D.J. Wheatley, Editor, Hodder Arnold, Londrina, pp.383-393, 2003

**VII. Long- and Short-term effects of TMLR in Acute Myocardial Ischemia**

Kadıpaşaoğlu A. K.

in: Transmyocardial Laser Revascularization - Present Status and Developments, Krabatsch T, Hetzer R, Editor, Ecomed Landsberg, Berlin, pp.35-48, 2000

**VIII. Acute and Chronic Effects of TMR in Canine Acute Ischemia and Correlations with the Outcomes of Clinical Trials**

Kadıpaşaoğlu A. K.

in: Transmyocardial Laser Revascularization - Present Status and Developments, Krabatsch T, Hetzer R, Editor, Ecomed Landsberg, Berlin, pp.81-98, 2000

**IX. Transmyocardial Laser Revascularization**

Kadıpaşaoğlu A. K.

in: Ischemic Heart Disease: Surgical Management, Buxton B, Frazier OH, Westaby S, Editor, Mosby-Wolf, London, pp.415-422, 1999

**X. Biomaterials Used in Cardiac Surgery**

KADIPAŞAOĞLU A. K., Frazier O., Parnis S., Radovancevic B.

in: Implantation Biology The Host and Biomedical Devices, R.S. Greco, Editor, CRC Press Inc., Ann Arbor, pp.165-187, 1994

## **Papers Published in Refereed Scientific Meetings**

**I. Bir Dolaşım Sistemi Simülasyonu Devresinin Egzersiz Durumunda Geribeslemeli Kontrolü**

Urgan A., Arısoy D. O., Kadıpaşaoğlu A. K.

TOK 2019 Ulusal Kongresi, Muğla, Turkey, 11 - 14 September 2019, pp.85-90

**II. Kalp-Damar Sistemi Elektrik Analog Devresinin Optimal Kontrolü**

KADIPAŞAOĞLU A. K., Balkan G.

TOK 2017, İstanbul, Turkey, 21 - 24 September 2017, pp.354-361

**III. Optimization of the heart pump geometry based on multiple gradient descent algorithm Kalp**

## **pompasi geometrik optimizasyonunun çoklu gradyan algoritması tabanında modellenmesi**

İŞCAN M., Kadipasaoglu K.

2017 Electric Electronics, Computer Science, Biomedical Engineerings' Meeting, EBBT 2017, İstanbul, Turkey, 20 - 21 April 2017

- IV. **ROTOR and DIFFUSER OPTIMIZATION of a NOVEL AXIAL FLOW LEFT VENTRICULAR ASSIST DEVICE**  
İŞCAN M., KADIPAŞAOĞLU A. K.  
The 3rd International Conference on Engineering and Natural Sciences (ICENS), Budapest, Hungary, 3 - 07 May 2017, pp.1
- V. **Mathematical Model of a Cardiovascular Mock Circuit: Design and Validation**  
ARISOY D. O., KADIPAŞAOĞLU A. K.  
International Conference of Engineering and Natural Sciences (ICENS) 2017, 3 - 05 May 2017, pp.570
- VI. **Automated aortic supra-valvular sinus detection in conventional computed tomography image**  
**Bilgisayarlı tomografi görüntülerinde otomatik aortik kapaküstü bölgesi tanımlama**  
Ünay D., Harmankaya I., Öksüz I., Kadipasaoglu K., Çubuk R., Çelik L.  
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- VII. **Region growing on frangi vesselness values in 3-D CTA data 3-BOYUTLU bt anjiyografi verilerinde frangi damarlık yöntemi üzerine bölge büyütme yaklasimi**  
Öksüz I., Ünay D., Kadipasaoglu K.  
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- VIII. **Transmyocardial revascularization using a synchronized CO2 laser as adjunct to coronary artery bypass grafting Results of a prospective randomized multicenter trial with 12 month followup**  
Frazier O., Boyce S., Griffith B., Hattler B., KADIPAŞAOĞLU A. K., Lansing A., March R.  
American Heart Association, 19 - 21 November 1999, vol.100, pp.248
- IX. **Transmyocardial laser revascularization (TMLR) at the Texas Heart Institute**  
Kadipasaoglu K. A., Frazier O., Stutts L., Cihan H., Cooley D.  
Proceedings of the 1998 17th Southern Biomedical Engineering Conference, San-Antonio, Northern Mariana Islands, 6 - 08 February 1998, pp.101
- X. **Physiologic pulsatile cardiopulmonary bypass pump system for neonates and infants**  
Undar A., Inman R., Kadipasaoglu K., Frazier O., Fraser Jr. C. D.  
Proceedings of the 1998 17th Southern Biomedical Engineering Conference, San-Antonio, Northern Mariana Islands, 6 - 08 February 1998, pp.128
- XI. **Laser-tissue interaction during transmyocardial laser revascularization**  
Jansen E., Frenz M., Kadipasaoglu K. A., Pfefer T., Altermatt H. J., Motamedi M., Welch A. J.  
Lasers in Surgery: Advanced Characterization, Therapeutics, and Systems VI, San-Jose, Costa Rica, 27 - 30 January 1996, vol.2671, pp.49-57

## **Supported Projects**

Kadipaşaoğlu A. K., Türker T., Meşe E., TUBITAK Project, Development of a Mechanical Circulatory Support System, 2019 - 2024

Kadipaşaoğlu A. K., TUBITAK Project, Özgün Bir Eksenel Akışlı Sol Ventrikül Destek Pompasının Fiziki Performans Testleri, 2013 - 2014

Kadipaşaoğlu A. K., TUBITAK Project, Mekanik Dolaşım Desteği ile Sol Ventrikül Atardamar Bağlaşık Sistem Veriminin İyileştirilmesi TÜBİTAK 1001 No 111M242, 2011 - 2013

Kadipaşaoğlu A. K., Industrial Thesis Project, Kalbin Dört Boyutlu Modeli ve Hemodinamik Haritalanması, 2010 - 2012

Kadipaşaoğlu A. K., Frazier O., Other International Funding Programs, A Novel Approach to Total Cardiac Replacement with Dual Continuous Flow Pumps, 2007 - 2011

Kadipaşaoğlu A. K., Frazier O., Other International Funding Programs, Development and Testing of a Miniature MagLev



VAD for Children and Adults, 2006 - 2006

Kadıpaşaoğlu A. K., Other International Funding Programs, Evaluation of OTS Life Cradle Heart Preservation System, 2005 - 2005

## Metrics

Publication: 75

Citation (WoS): 1284

Citation (Scopus): 1816

H-Index (WoS): 16

H-Index (Scopus): 18

## Non Academic Experience

Türk Göğüs Kalp Damar Cerrahisi Dergisi, Associate Editor

McGowan Institute for Regenerative Medicine (MIRM) Annual Retreat, Organizational Committee

Texas Heart Institute, Scientific Consultant

McGowan Institute for Regenerative Medicine (MIRM), Faculty

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

The Heart, Lung and Esophageal Surgery Institute, University of Pittsburgh Medical Center, Executive Director, Cardiac Surgery Research

Asia Minor Collectibles, Inc., Owner/President

Texas Heart Institute, Assistant Director, CV Surgery Research

Texas Heart Institute, Director, Clinical TMLR Training Program

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