

## Prof. Dr. AYDAN MÜŞERREF ERKMEN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAE-4461-2020

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Yoksis Araştırmacı ID: 163254

### Yabancı Diller

İngilizce, C1 İleri

Fransızca, C1 İleri

### Yönetilen Tezler

ERKMEN A. M., Real time dense slam in unstructured dynamic cluttered 3d environments, Doktora, Ö.HASTÜRK(Öğrenci), 2022

ERKMEN A. M., Coriolis vibratory MEMS gyro drive axis control with proxy-based sliding mode controller, Doktora, D.ÜNSAL(Öğrenci), 2022

ERKMEN A. M., Prediction of renal respiratory motion for compensation during percutaneous needle insertion in robot assisted surgery, Yüksek Lisans, M.ÇETİNKAYA(Öğrenci), 2018

ERKMEN A. M., Implementation of fractional order controller for stabilized visual tracking system in real military platforms, Yüksek Lisans, M.BAYINDIR(Öğrenci), 2018

ERKMEN A. M., Dynamic formation control with heterogeneous mobile robots, Yüksek Lisans, K.ÇİMENÇİ(Öğrenci), 2016

ERKMEN A. M., GROWING 3D MAPS FROM 2D SLAM MAPS OBTAINED BY INDOOR SLAM WITH HETEROGENEOUS MOBILE ROBOTS, Yüksek Lisans, B.ÇETİNKAYA(Öğrenci), 2015

ERKMEN A. M., Farklı robotlar ile yapılan anlık konumlama ve haritalama sonucunda ortaya çıkan 2 boyutlu haritalar ile 3 boyutlu haritaların oluşturulması., Yüksek Lisans, B.Çetinkaya(Öğrenci), 2015

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ERKMEN A. M., Reshaping human intentions by autonomous sociable robot moves through intention transients generated by elastic networks considering human emotions, Yüksek Lisans, O.CAN(Öğrenci), 2014

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ERKMEN A. M., Improvisation based on imitating human players by a robotic acoustic musical device ROMI built as a self playing compound acoustic musical robot, Doktora, K.AYDIN(Öğrenci), 2013

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ERKMEN A. M., Hibrid duyurga ağlarında asalak sabit kablosuz duyurga altağları ile hareketli duyurga altağları arasındaki iletişime dayalı veri denetimi ve duyurga dağılımı., Doktora, S.Doğru(Öğrenci), 2012

ERKMEN A. M., Yuvarlanma kontrollü bir füze için iki eksenle gimbal kararlılığının sağlanması, Yüksek Lisans, Ö.Hastürk(Öğrenci), 2011

GÖKÇAY D., ERKMEN A. M., Wavelet based deconvolution techniques in identifying fMRI based brain activation, Yüksek Lisans, E.ADLI(Öğrenci), 2011

GÖKÇAY D., ERKMEN A. M., Blind deconvolution techniques in identifying fMRI based brain activation, Yüksek Lisans, H.İCLAL(Öğrenci), 2011

ERKMEN A. M., Mechanical properties identification of viscoelastic/hyperelastic materials based on experimental data, Yüksek Lisans, A.TABAKCI(Öğrenci), 2010

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ERKMEN A. M., ERKMEN İ., Intelligent stabilization control of turret subsystems under disturbances from unstructured terrain, Yüksek Lisans, Ö.GÜMÜŞAY(Öğrenci), 2006

ERKMEN A. M., Preshaping control for dexterous manipulation with a multifingered robot hand, Doktora, C.VEYSEL(Öğrenci), 2006

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ERKMEN A. M., 3-D grasping during serpentine motion with a snake-like robot, Yüksek Lisans, B.ATAKAN(Öğrenci), 2005

ERKMEN A. M., ERKMEN İ., A recommendation system combining context-awareness and user profiling in mobile environment, Yüksek Lisans, S.ULUCAN(Öğrenci), 2005

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

- I. **Energy-aware UAV-driven Data Collection with Priority in Robotic Wireless Sensor Network**  
GÜL Ö. M., ERKMEN A. M.  
IEEE Sensors Journal, cilt.23, sa.15, ss.17667-17675, 2023 (SCI-Expanded)
- II. **UAV-Driven Sustainable and Quality-Aware Data Collection in Robotic Wireless Sensor Networks**  
GÜL Ö. M., ERKMEN A. M., Kantarci B.  
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- III. **Coriolis Vibratory MEMS Gyro Drive Axis Control with Proxy-Based Sliding Mode Controller**  
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MICROMACHINES, cilt.13, sa.3, 2022 (SCI-Expanded)
- IV. **DUDMap: 3D RGB-D mapping for dense, unstructured, and dynamic environment**  
Hastürk Ö., Erkmen A. M.  
International Journal of Advanced Robotic Systems, cilt.18, sa.3, 2021 (SCI-Expanded)
- V. **Energy-Efficient Cluster-Based Data Collection by a UAV with a Limited-Capacity Battery in Robotic Wireless Sensor Networks**  
GÜL Ö. M., ERKMEN A. M.  
SENSORS, cilt.20, sa.20, ss.1-35, 2020 (SCI-Expanded)
- VI. **Reshaping human intention in Human-Robot Interactions by robot moves A comparative analysis of HMM and OOM methods**  
Durdu A., ERKMEN A. M., Yilmaz A.  
INTERACTION STUDIES, cilt.20, sa.3, ss.530-560, 2019 (SSCI)
- VII. **Estimating and reshaping human intention via human robot interaction**  
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- VIII. **Fluid swarm formation control for hand gesture imitation by ellipse fitting**  
TİLKİ U., ERKMEN A. M.  
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- IX. **Prioritized Mobile Robot Exploration Based on Percolation Enhanced Entropy Based Fast SLAM**  
Karahan M., ERKMEN A. M., ERKMEN İ.  
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, cilt.75, ss.541-567, 2014 (SCI-Expanded)
- X. **Momentum Transfer from Preshape to Grasping**  
Ozyer B., ERKMEN İ., ERKMEN A. M.  
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, cilt.75, sa.2, ss.173-191, 2014 (SCI-Expanded)
- XI. **A novel multirobot map fusion strategy for occupancy grid maps**  
Topal S., ERKMEN İ., ERKMEN A. M.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.21, sa.1, ss.107-119, 2013 (SCI-Expanded)
- XII. **Imitation of basic hand preshapes by fluid based method: fluidics formation control**  
Tilki U., ERKMEN İ., ERKMEN A. M.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.19, sa.2, ss.221-234, 2011 (SCI-Expanded)
- XIII. **An Intelligent Inference System for Robot Hand Optimal Grasp Preshaping**  
BAYSAL C. V., ERKMEN A. M.  
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, cilt.3, sa.5, ss.656-673, 2010 (SCI-Expanded)

- XIV. **Enhancing positioning accuracy of GPS/INS system during GPS outages utilizing artificial neural network**  
Kaygisiz B. H., Erkmen A. M., Erkmen I.  
NEURAL PROCESSING LETTERS, cilt.25, sa.3, ss.171-186, 2007 (SCI-Expanded)
- XV. **Intelligent analysis of chaos roughness in regularity of walk for a two legged robot**  
Kaygisiz B., Erkmen I., Erkmen A.  
CHAOS SOLITONS & FRACTALS, cilt.29, sa.1, ss.148-161, 2006 (SCI-Expanded)
- XVI. **A Petri net approach to behavioural simulation of design artefacts with application to mechatronic design**  
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- XVII. **Snake robots to the rescue!**  
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IEEE ROBOTICS & AUTOMATION MAGAZINE, cilt.9, sa.3, ss.17-25, 2002 (SCI-Expanded)
- XVIII. **Two-way fuzzy adaptive identification and control of a flexible-joint robot arm**  
Gurkan E., Erkmen I., Erkmen A.  
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- XIX. **Mechatronics education**  
Erkmen A., Tsubouchi T., Murphy R.  
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- XX. **Robot hand preshaping and regrasping using genetic algorithms**  
Erkmen I., Erkmen A., Gunver H.  
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- XXI. **The multidisciplinary International Virtual Design Studio (MIVDS)**  
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IEEE TRANSACTIONS ON EDUCATION, cilt.43, sa.3, ss.288-295, 2000 (SCI-Expanded)
- XXII. **Optimal initialization of manipulation dynamics by vorticity model of robot hand preshaping. Part I: Vorticity model**  
Erkmen A., Erkmen I., Tekkaya E.  
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- XXIII. **Optimal initialization of manipulation dynamics by vorticity model of robot hand preshaping. Part II: Analyses of grasp initialization and its vorticity based optimization**  
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- XXIV. **Haptic perception of shape and hollowness of deformable objects using the Anthrobot-III robot hand**  
Erkmen I., Erkmen A., Tekkaya A., Pasinlioglu T.  
JOURNAL OF ROBOTIC SYSTEMS, cilt.16, sa.1, ss.9-24, 1999 (SCI-Expanded)
- XXV. **A computerized diagnostic system for the interpretation of umbilical artery blood flow velocity waveforms**  
Beksac M., Basaran F., Eskiizmirli S., Erkmen A., Yorukan S.  
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- XXVI. **INTERPRETATION OF DOPPLER BLOOD-FLOW VELOCITY WAVE-FORMS USING NEURAL NETWORKS**  
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- I. **NTN-Aided Quality and Energy-Aware Data Collection in Time-Critical Robotic Wireless Sensor Networks**  
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- II. **Towards the robotic “avatar”: An extensive survey of the cooperation between and within networked mobile sensors**  
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- III. **Percolation enhanced prioritised multi-robot exploration of unstructured environments**  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Formation Control of Unmanned Aerial Vehicles for Dynamically Changing Formations Facing Suddenly Emerging Environmental Features**  
Cimen S., ERKMEN A. M.  
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Türkiye, 7 - 09 Haziran 2023
- II. **Exact kalman filtering of respiratory motion**  
ÇETİNKAYA M., Akgun S. A., ERKMEN A. M., ERKMEN İ.  
6th International Conference on Control Engineering and Information Technology, CEIT 2018, İstanbul, Türkiye, 25 - 27 Ekim 2018
- III. **Achieving Asymptotically Optimal Throughput in Centralized Mobile Robot Networks without Dispatching Feedback**  
gul o. m., ERKMEN A. M.  
28th European Conference on Operational Research EURO2016, Polonya, 27 - 30 Temmuz 2016
- IV. **Elastic Networks in Reshaping Human Intentions by Proactive Social Robot Moves**  
Gorur O. C., ERKMEN A. M.  
23rd IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN), Edinburgh, Saint Helena, 25 - 29 Ağustos 2014, ss.1012-1017
- V. **Intelligent Mesh For Self Reconfigurability of an Exoskeleton Arm**  
altintasi c., ERKMEN A. M.  
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- VI. **IMITATION OF HUMAN BODY POSES BY THE FORMATION CONTROL OF A FLUIDIC SWARM**  
Tilki U., ERKMEN İ., ERKMEN A. M.  
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- VII. **Improvisation Based on Imitating Human Players by a Robotic Acoustic Musical Device**  
Aydin K. K., ERKMEN A. M., ERKMEN İ.  
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- VIII. **Morphing Estimated Human Intention via Human-Robot Interactions**  
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- IX. **Proxy-Based Sliding Mode Stabilization of a Two-Axis Gimbaled Platform**  
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- X. **Musical State Representation for Imitating Human Players by a Robotic Acoustic Musical Device**  
ERKMEN A. M., aydin k.  
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- XI. **A Novel Map Merging Methodology for Multi-Robot Systems**  
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- XII. **Imitation of Hand Postures with Particle Based Fluidics Method**  
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- XIII. **Momentum Transfer from the Fingers to Object Based on Fluid Dynamics**  
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- XIV. **CATCHING CONTINUUM BETWEEN PRESHAPE AND GRASPING BASED ON FLUIDICS**  
Ozyer B., ERKMEN İ., ERKMEN A. M.  
10th ASME Biennial Conference on Engineering Systems Design and Analysis, İstanbul, Türkiye, 12 - 24 Temmuz 2010, ss.683-691
- XV. **Cooperation of three UAV's for Aerial Rescue and Aerial Retrieval**  
ERKMEN A. M., YAVRUCUK İ., cakir z.  
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- XVI. **Tracking a sycophant wireless sensor network for its seamless integration to mobile sensor networks**  
dogru s., ERKMEN A. M., erkmen i.  
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- XVII. **Imitation of Basic Hand Preshapes by Fluid Based Method: Fluidic Formation Control**  
ERKMEN A. M., TİLKİ U., erkmen i.  
10th ELECO International Conference on Electrical Electronics and Computer Engineering, 5 - 08 Kasım 2009
- XVIII. **NEW PRIORITIZED MULTI-ROBOT EXPLORATION STRATEGY BASED ON PERCOLATION MODEL IN UNKNOWN ENVIRONMENTS**  
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- XIX. **"Morphing a Mobile Robot Network to Dynamic Task Changes over time and space**  
ERKMEN A. M., Topal S., erkmen i.  
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- XX. **Intelligent Coordination of Multi-Robots for Victim Search Operations,**  
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- XXI. **"New Prioritized Multi-Robot Exploration Strategy Based on Percolation Model in Unknown Environment**  
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- XXII. **A snake-like robot for variable friction unstructured terrains, pushing aside debris in clearing passages**  
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- XXIII. **Control of Robotic Swarm Behaviors based on Smoothed Particle Hydrodynamics**  
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- XXIV. **A Fluid Dynamics Paradigm for Control of MAV Swarms”, Full Day Workshop on “ Micro Aerial Vehicles: Design, Control and Navigation**  
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- XXV. **FACL based 3D grasping controller for a snake robot during locomotion**  
Ari E. O., ERKMEN İ., ERKMEN A. M.  
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- XXVI. **Scalable self-deployment of mobile sensor networks: A fluid dynamics approach**  
Pac M. R., Erkmen A. M., Erkmen I.  
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- XXVII. **A behavior based layered, hybrid, control architecture for robot/sensor networks**  
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- XXVIII. **3-D grasping during serpentine motion with a snake-like robot**  
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- XXIX. **Equivalent linearization of 2-way fuzzy adaptive system under nonparametric uncertainty and inconsistency**  
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5th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science, Ghent, Belçika, 16 - 18 Eylül 2002, ss.453-460
- XXX. **Evaluation of inconsistency in a 2-way fuzzy adaptive system using shadowed sets**  
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- XXXI. **Self-reconfiguration in task space of a holonic structure**  
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- XXXII. **The self-reconfiguration of a holonic hand: The holonic regrasp**  
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- XXXIII. **Resilient backpropagation for RBF networks**  
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- XXXIV. **Reducing inconsistencies in intuitionistic 2-way adaptive fuzzy control systems**  
Gurkan E., Erkmen A., Erkmen I.  
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- XXXV. **Game theoretic colony control of holonic robots inspecting inner surfaces of pipes**  
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Environments, New-Mexico, Amerika Birleşik Devletleri, 27 Şubat - 02 Mart 2000, ss.234-240

**XXXVI. DESIGN OF A HOLONIC SELF-RECONFIGURABLE ROBOTIC SYSTEM**

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**XXXVII. Intuitionistic, 2-way adaptive fuzzy control**

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**XXXVIII. Decision and feature fusion over the fractal inference network using camera and range sensors**

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**XXXIX. Holonic grasping**

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**XL. A Petri Net-based inference network for design automation under nondeterminism applied to mechatronic systems**

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## **Desteklenen Projeler**

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