

Prof. İSMET ERKMEN

Personal Information

Email: erkmen@metu.edu.tr

Advising Theses

- SEVAİOĞLU O., ERKMEN İ., The impact of energy storage system on security constrained unit commitment (SCUC) problem in presence of renewables, Post Graduate, C.ÇAKIR(Student), 2015
- ERKMEN İ., Design, implementation and verification of gas insulated load break switch at 12 kV voltage level, Post Graduate, A.BERİL(Student), 2014
- ERKMEN İ., Unit commitment with DGs in distribution systems, Post Graduate, M.BAYAT(Student), 2013
- ERKMEN İ., Robotic system design for reshaping estimated human intention in human-robot interaction, Doctorate, A.DURDU(Student), 2012
- ERKMEN İ., Imitation of human body poses and hand gestures using a particle based fluidics method, Doctorate, U.TİLKİ(Student), 2012
- ERKMEN İ., Momentum transfer continuum between preshape and grasping based on fluidics, Doctorate, B.ÖZYER(Student), 2012
- ERKMEN İ., Simulation and performance evaluation of a fast and high power pulsed laser diode driver for laser range finder, Post Graduate, Y.KEMAL(Student), 2012
- ERKMEN İ., Multi-robot coordination control methodology for search and rescue operations, Doctorate, S.TOPAL(Student), 2011
- ERKMEN İ., Development of a DSP-FPGA-based resolver-to-digital converter for stabilized gun platforms, Post Graduate, Y.ZENGİN(Student), 2010
- ERKMEN İ., Optimization of electricity markets in the price based and security constrained unit commitment problems frameworks, Doctorate, C.ŞAHİN(Student), 2010
- ERKMEN İ., Prioritized exploration strategy based on invasion percolation guidance, Post Graduate, M.KARAHAN(Student), 2009
- ERKMEN İ., A fluid dynamics framework for control of mobile robot networks, Post Graduate, M.RAŞİD(Student), 2007
- ERKMEN A. M. , ERKMEN İ., Intelligent stabilization control of turret subsystems under disturbances from unstructured terrain, Post Graduate, Ö.GÜMÜŞAY(Student), 2006
- ERKMEN A. M. , ERKMEN İ., A snake-like robot for searching, cleaning passages from debris and dragging victims, Post Graduate, E.ÇAĞLAV(Student), 2006
- ERKMEN İ., Participation of combined cycle power plants to power system frequency control: Modeling and application, Post Graduate, O.YILMAZ(Student), 2006
- ERKMEN A. M. , ERKMEN İ., Biologically inspired multichannel modelling of human visual perceptual system, Post Graduate, M.APAYDIN(Student), 2005
- ERKMEN İ., Real time color based object tracking, Post Graduate, G.ÖZZAMAN(Student), 2005
- ERKMEN A. M. , ERKMEN İ., Fuzzy actor-critic learning based intelligent controller for high-level motion control of serpentine robots, Post Graduate, E.ONUR(Student), 2005
- ERKMEN A. M. , ERKMEN İ., Fault tolerant deployment, search and task cooperative control of robot/sensor networks, Post Graduate, B.AKIN(Student), 2005
- ERKMEN A. M. , ERKMEN İ., A recommendation system combining context-awareness and user profiling in mobile environment, Post Graduate, S.ULUCAN(Student), 2005
- ERKMEN A. M. , ERKMEN İ., User modeling in mobile environment, Post Graduate, E.ALKILIÇGİL(Student), 2005
- ERKMEN A. M. , ERKMEN İ., Online critical game flow and dynamic role assignment based on potential fields, Post Graduate, A.AYHAN(Student), 2004

ERKMEN A. M. , ERKMEN İ., Intelligent methods for dynamic analysis and navigation of autonomous land vehicles, Doctorate, H.BURAK(Student), 2004

ERKMEN A. M. , ERKMEN İ., Reinforcement learning using potential field for role assignment in a multi-robot two-team game, Post Graduate, F.ÖZGÜL(Student), 2004

ERKMEN İ., Application of evolution strategy algorithm to generator parameter estimation problem, Post Graduate, C.ŞAHİN(Student), 2003

ERKMEN İ., Hybrid learning algorithm for intelligent short-term load forecasting, Doctorate, A.KUMLUCA(Student), 2003

ERKMEN İ., Shape analysis using contour-based and region-based approaches, Post Graduate, G.ÇİFTÇİ(Student), 2003

ERKMEN A. M. , ERKMEN İ., Intelligent gait control of a multilegged robot used in rescue operations, Post Graduate, E.KARALARLI(Student), 2003

ERKMEN A. M. , ERKMEN İ., Intelligent student assessment and coaching interface to web-based education-oriented intelligent experimentation on robot supported laboratory setups, Post Graduate, H.ERDEM(Student), 2003

ERKMEN İ., Integration of photometric stereo and shape from shading algorithms, Post Graduate, U.SAKARYA(Student), 2002

ERKMEN İ., Scene segmentation comparative analysis, Post Graduate, M.ŞEVKET(Student), 2001

ERKMEN İ., Self-adaptive evolutionary programming based economic dispatch power units with nonmonotonic fuel cost functions, Post Graduate, T.ÖZEL(Student), 2001

ERKMEN İ., Mechatronic design of a scanner and interlacer for thermal imaging, Post Graduate, M.BARIŞ(Student), 2000

ERKMEN İ., Genetically optimized fuzzy logic controller for AGC, Post Graduate, E.AYAZOĞLU(Student), 2000

ERKMEN İ., A discrete multitone transreceiver system for power line communication applications, Post Graduate, T.KIRCI(Student), 1999

ERKMEN İ., Optimized fuzzy approach to unit commitment problem in power system, Post Graduate, R.EĞRİ(Student), 1999

ERKMEN İ., Long term dynamic simulator for electrical power systems, Post Graduate, Y.KÜÇÜKEFE(Student), 1997

ERKMEN İ., Short term system load forecasting using fuzzy neural networks, Post Graduate, E.TAN(Student), 1997

ERKMEN İ., Short term load forecasting using genetically optimized neural network cascaded with a modified kohonen clustering process, Post Graduate, A.ÖZDOĞAN(Student), 1996

ERKMEN İ., Tracking and impacting an ill-perceived object with the anthropot in robot hand using fuzzy dynamic programming, Post Graduate, M.İZZETOĞLU(Student), 1995

ERKMEN İ., Feeder automation in Middle East Technical University medium voltage distribution systems, Post Graduate, Ç.SUNAY(Student), 1994

ERKMEN İ., Short term load forecasting using GLVQ algorithm cascaded with a supervised ann., Post Graduate, B.BALA(Student), 1994

ERKMEN İ., A Modified kohonen neural network coupled to A kalman filter for short term load forecasting, Post Graduate, H.ÖZSÖKMEN(Student), 1994

ERKMEN İ., Short-term hydrothermal coordination by using multi-pass dynamic programming with successive approximation, Post Graduate, B.KARATAŞ(Student), 1994

ERKMEN İ., Dynamic economic dispatch using dynamic programming successive approximation technique, Post Graduate, O.BURÇ(Student), 1993

ERKMEN İ., Load forecast methods for distribution planning and results of applications in western zone of İstanbul, Post Graduate, M.TAYYAR(Student), 1993

ERKMEN İ., Implementation of time division multiplication method for energy measuring purpose, Post Graduate, Y.OYMAK(Student), 1992

ERKMEN İ., Intelligent fault diagnosis in power systems using neural networks, Post Graduate, C.GEZGİN(Student), 1992

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ERKMEN İ., A Graphical interface for power system applications, Post Graduate, C.KIRIŞTIOĞLU(Student), 1991

ERKMEN İ., A Digital frequency and rate of change of frequency relay for load shedding, Post Graduate, İ.UMUT(Student), 1989

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Estimating and reshaping human intention via human robot interaction**
DURDU A., ERKMEN İ., ERKMEN A. M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, pp.88-104, 2016 (Journal Indexed in SCI)
- **Prioritized Mobile Robot Exploration Based on Percolation Enhanced Entropy Based Fast SLAM**
Karahana M., ERKMEN A. M., ERKMEN İ.
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, vol.75, pp.541-567, 2014 (Journal Indexed in SCI)
- **Momentum Transfer from Preshape to Grasping**
Ozyer B., ERKMEN İ., ERKMEN A. M.
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- **A novel multirobot map fusion strategy for occupancy grid maps**
Topal S., ERKMEN İ., ERKMEN A. M.
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- **Allocation of Hourly Reserve Versus Demand Response for Security-Constrained Scheduling of Stochastic Wind Energy**
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- **Generation risk assessment in volatile conditions with wind, hydro, and natural gas units**
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- **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, vol.19, pp.221-234, 2011 (Journal Indexed in SCI)
- **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, vol.25, pp.171-186, 2007 (Journal Indexed in SCI)
- **Intelligent short-term load forecasting in Turkey**
Topalli A. K., Erkmen I., Topalli I.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.28, pp.437-447, 2006 (Journal Indexed in SCI)
- **Intelligent analysis of chaos roughness in regularity of walk for a two legged robot**
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CHAOS SOLITONS & FRACTALS, vol.29, pp.148-161, 2006 (Journal Indexed in SCI)
- **Stable controller design for T-S fuzzy systems based on Lie algebras**
Banks S., Gurkan E., Erkmen I.
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- **A new algorithm and computation approach for economic dispatch with prohibited operating zones in power systems**
Cetinkaya N., Urkmez A., Erkmen I., Yalcinoz T.
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- **An improved method of photometric stereo using local shape from shading**
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- **Four methods for short-term load forecasting using the benefits of artificial intelligence**
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- **Snake robots to the rescue!**
Erkmen I., Erkmen A., Matsuno F., Chatterjee R., Kamegawa T.
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- **Two-way fuzzy adaptive identification and control of a flexible-joint robot arm**
Gurkan E., Erkmen I., Erkmen A.
INFORMATION SCIENCES, vol.145, pp.13-43, 2002 (Journal Indexed in SCI)
- **Robot hand preshaping and regrasping using genetic algorithms**
Erkmen I., Erkmen A., Gunver H.
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- **The multidisciplinary International Virtual Design Studio (MIVDS)**
Erden A., Erkmen A., Erkmen I., Bucinell R., Traver C., Notash L.
IEEE TRANSACTIONS ON EDUCATION, vol.43, pp.288-295, 2000 (Journal Indexed in SCI)
- **Optimal initialization of manipulation dynamics by vorticity model of robot hand preshaping. Part I: Vorticity model**
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- **Optimal initialization of manipulation dynamics by vorticity model of robot hand preshaping. Part II: Analyses of grasp initialization and its vorticity based optimization**
Erkmen A., Erkmen I., Tekkaya E.
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- **Haptic perception of shape and hollowness of deformable objects using the Anthrobot-III robot hand**
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Refereed Congress / Symposium Publications in Proceedings

- **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, Turkey, 25 - 27 October 2018
- **Impact of Natural Gas System on Risk-Constrained Midterm Hydrothermal Scheduling**
Sahin C., Li Z., Shahidehpour M., ERKMEN İ.
General Meeting of the IEEE-Power-and-Energy-Society (PES), Vancouver, Canada, 21 - 25 July 2013
- **IMITATION OF HUMAN BODY POSES BY THE FORMATION CONTROL OF A FLUIDIC SWARM**
Tilki U., ERKMEN İ., ERKMEN A. M.
11th ASME Biennial Conference on Engineering Systems Design and Analysis, (ESDA 2012), Nantes, France, 2 - 04 July 2012, pp.361-370
- **Improvisation Based on Imitating Human Players by a Robotic Acoustic Musical Device**
Aydin K. K. , ERKMEN A. M. , ERKMEN İ.
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- **Morphing Estimated Human Intention via Human-Robot Interactions**
Durdu A., ERKMEN İ., ERKMEN A. M. , Yilmaz A.
World Congress on Engineering and Computer Science (WCECS 2011), San-Francisco, Costa Rica, 19 - 21 October 2011, pp.354-359
- **Proxy-Based Sliding Mode Stabilization of a Two-Axis Gimbaled Platform**
Hasturk O., ERKMEN A. M. , ERKMEN İ.
World Congress on Engineering and Computer Science (WCECS 2011), San-Francisco, Costa Rica, 19 - 21 October 2011, pp.370-376

● **Momentum Transfer from the Fingers to Object Based on Fluid Dynamics**

Ozyer B., ERKMEN İ., ERKMEN A. M.

World Congress on Engineering and Computer Science (WCECS)/International Conference on Advances in Engineering Technologies, San-Francisco, Costa Rica, 20 - 22 October 2010, pp.346-349

● **Imitation of Hand Postures with Particle Based Fluidics Method**

Tilki U., ERKMEN İ., ERKMEN A. M.

World Congress on Engineering and Computer Science (WCECS)/International Conference on Advances in Engineering Technologies, San-Francisco, Costa Rica, 20 - 22 October 2010, pp.361-362

● **A Novel Map Merging Methodology for Multi-Robot Systems**

Topal S., ERKMEN İ., ERKMEN A. M.

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● **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, Turkey, 12 - 24 July 2010, pp.683-691

● **NEW PRIORITIZED MULTI-ROBOT EXPLORATION STRATEGY BASED ON PERCOLATION MODEL IN UNKNOWN ENVIRONMENTS**

Topal S., ERKMEN İ., ERKMEN A. M.

12th International Conference on Climbing and Walking Robots the Support Technologies for Mobile Machines (CLAWAR), İstanbul, Turkey, 9 - 11 September 2009, pp.967-974

● **A snake-like robot for variable friction unstructured terrains, pushing aside debris in clearing passages**

Caglav E., ERKMEN A. M. , ERKMEN İ.

IEEE/RSJ International Conference on Intelligent Robots and Systems, California, United States Of America, 29 October - 02 November 2007, pp.3691-3692

● **FACL based 3D grasping controller for a snake robot during locomotion**

Ari E. O. , ERKMEN İ., ERKMEN A. M.

IEEE/RSJ International Conference on Intelligent Robots and Systems, Beijing, China, 9 - 13 October 2006, pp.4030-4031

● **Scalable self-deployment of mobile sensor networks: A fluid dynamics approach**

Pac M. R. , Erkmen A. M. , Erkmen I.

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● **A behavior based layered, hybrid, control architecture for robot/sensor networks**

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IEEE International Conference on Robotics and Automation (ICRA), Florida, United States Of America, 15 - 19 May 2006, pp.206-207

● **3-D grasping during serpentine motion with a snake-like robot**

Atakan B., Erkmen A., Erkmen I.

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● **Performance results of the improved method of photometric stereo using local shape from shading on variable albedo samples**

Sakarya U., Erkmen I.

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● **Stable controller design for the T-S fuzzy model of a flexible-joint robot arm based on lie algebra**

Gurkan E., Banks S., Erkmen I.

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● **Equivalent linearization of 2-way fuzzy adaptive system under nonparametric uncertainty and inconsistency**

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● **Evaluation of inconsistency in a 2-way fuzzy adaptive system using shadowed sets**

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● **The self-reconfiguration of a holonic hand: The holonic regrasp**

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● **Self-reconfiguration in task space of a holonic structure**

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● **Reducing inconsistencies in intuitionistic 2-way adaptive fuzzy control systems**

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● **Game theoretic colony control of holonic robots inspecting inner surfaces of pipes**

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

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● **Holonic grasping**

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● **Short term load forecasting using genetically optimized neural network cascaded with a Modified Kohonen clustering process**

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● **A SOFTWARE TOOL FOR ACADEMIC ADVISERS FOR STUDENT PERFORMANCE FOLLOW-UP**

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● **A SHORT-TERM LOAD PREDICTION ALGORITHM FOR DYNAMIC ECONOMIC-DISPATCH**

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● **ACCREDITATION ISSUES IN ELECTRICAL-ENGINEERING CURRICULUM - A COMPARATIVE CASE-STUDY**

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● **FUZZY DYNAMIC-PROGRAMMING**

ALKAN M., ERKMEN A., ERKMEN I.

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● **SHORT-TERM HYDROTHERMAL COORDINATION BY USING MULTIPASS DYNAMIC-PROGRAMMING WITH SUCCESSIVE APPROXIMATION**

ERKMEN I., KARATAS B.

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● **SENS-PERCEPTOR - IMAGE-BASED EVIDENCE FORMATION MODULE AS A LOGICAL SENSOR FOR ROBOT HAND PRESHAPING**

NAZLIBILEK S., ERKMEN A., ERKMEN I.

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Citations

Total Citations (WOS):349

h-index (WOS):9