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Advising Theses

SEVAİOĞLU O., ERKMEN İ., The Impact of energy storage system on security constrained unit commitment problem in presence of renewables, Postgraduate, C.Çakır(Student), 2015

ERKMEN İ., SEVAİOĞLU O., The impact of energy storage system on security constrained unit commitment (SCUC) problem in presence of renewables, Postgraduate, C.ÇAKIR(Student), 2015

ERKMEN İ., Design, implementation and verification of gas insulated load break switch at 12 kV voltage level /, Postgraduate, A.BERİL(Student), 2014

ERKMEN İ., Unit commitment with DGs in distribution systems, Postgraduate, 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., 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, Postgraduate, Y.KEMAL(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., ERKMEN A. M., Robotic system design for reshaping estimated human intention in human-robot interactions, Doctorate, A.Durdu(Student), 2012

ERKMEN İ., Multi-robot coordination control methodology for search and rescue operations, Doctorate, S.TOPAL(Student), 2011

ERKMEN İ., Optimization of electricity markets in the price based and security constrained unit commitment problems frameworks, Doctorate, C.ŞAHİN(Student), 2010

ERKMEN İ., Development of a DSP-FPGA-based resolver-to-digital converter for stabilized gun platforms, Postgraduate, Y.ZENGİN(Student), 2010

ERKMEN İ., Prioritized exploration strategy based on invasion percolation guidance, Postgraduate, M.KARAHAN(Student), 2009

ERKMEN İ., A fluid dynamics framework for control of mobile robot networks, Postgraduate, M.RAŞİD(Student), 2007

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

ERKMEN İ., Participation of combined cycle power plants to power system frequency control: modelling and application, Postgraduate, O.Yılmaz(Student), 2006

ERKMEN A. M., ERKMEN İ., A snake-like robot for searching, cleaning passages from debris and dragging victims, Postgraduate, E.ÇAĞLAV(Student), 2006

ERKMEN İ., Participation of combined cycle power plants to power system frequency control: Modeling and application,

Postgraduate, O.YILMAZ(Student), 2006

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

ERKMEN İ., Real time color based object tracking, Postgraduate, G.ÖZZAMAN(Student), 2005

ERKMEN İ., Fuzzy actor-critic learning based intelligent controller for high-level motion control of serpentine robots, Postgraduate, E.Onur(Student), 2005

ERKMEN A. M., ERKMEN İ., Fault tolerant deployment, search and task cooperative control of robot/sensor networks, Postgraduate, B.AKIN(Student), 2005

ERKMEN A. M., ERKMEN İ., Fuzzy actor-critic learning based intelligent controller for high-level motion control of serpentive robots, Postgraduate, E.ONUR(Student), 2005

ERKMEN İ., Fault tolerant deployment, search, and task xooperative control of robot/sensor networks, Postgraduate, B.Akın(Student), 2005

ERKMEN İ., ERKMEN A. M., User modeling in mobile environment, Postgraduate, E.ALKILIÇGİL(Student), 2005

ERKMEN A. M., ERKMEN İ., Biologically inspired multichannel modelling of human visual perceptual system, Postgraduate, M.APAYDIN(Student), 2005

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

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

ERKMEN A. M., ERKMEN İ., Online critical game flow and dynamic role assignment based on potential fields, Postgraduate, A.AYHAN(Student), 2004

ERKMEN İ., Online critical game flow and role assignment based on potential fields, Postgraduate, A.Ayhan(Student), 2004

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

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

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

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

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

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

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

ERKMEN İ., Self-adaptive evolutionary programming based economic dispatch of units with nonmonotonic fuel cost function, Postgraduate, T.Özel(Student), 2001

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

ERKMEN İ., Mechatronic design of a scanner and interlacer for thermal imaging system, Postgraduate, M.Barış(Student), 2000

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

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

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

ERKMEN İ., Optimized fuzzy approach to unit commitment in power systems, Postgraduate, R.Eğri(Student), 1999

ERKMEN İ., A discrete multitone transreceiver system for power line communication application, Postgraduate, T.Kırcı(Student), 1999

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

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

ERKMEN İ., Long term dynamic power systems simulator prime mover modeling, Postgraduate, E.Kahraman(Student), 1996

ERKMEN İ., Short term load forecasting using genetically optimized neural network cascaded with a modified Kohonen clustering process, Postgraduate, A.Özdoğan(Student), 1996

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ERKMEN İ., Tracking and impacting an ill-perceived object with the anthrobot ııı robot hand using fuzzy dynamic programming, Postgraduate, M.İZZETOĞLU(Student), 1995

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

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

ERKMEN İ., Feeder automation in Middle East Technical University medium voltage distribution system, Postgraduate, Ç.Sunay(Student), 1994

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

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

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

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

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

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

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I. **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, no.1, pp.88-104, 2016 (SCI-Expanded)

II. **Prioritized Mobile Robot Exploration Based on Percolation Enhanced Entropy Based Fast SLAM**
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III. **Momentum Transfer from Preshape to Grasping**
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IV. **A novel multirobot map fusion strategy for occupancy grid maps**
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V. **Allocation of Hourly Reserve Versus Demand Response for Security-Constrained Scheduling of Stochastic Wind Energy**
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VII. **Imitation of basic hand preshapes by fluid based method: fluidics formation control**
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VIII. **Enhancing positioning accuracy of GPS/INS system during GPS outages utilizing artificial neural network**
Kaygisiz B. H., Erkmen A. M., Erkmen I.
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IX. **Intelligent short-term load forecasting in Turkey**
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X. **Intelligent analysis of chaos roughness in regularity of walk for a two legged robot**
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CHAOS SOLITONS & FRACTALS, vol.29, no.1, pp.148-161, 2006 (SCI-Expanded)

XI. **Stable controller design for T-S fuzzy systems based on Lie algebras**
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XII. **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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XIII. **An improved method of photometric stereo using local shape from shading**
Sakarya U., Erkmen I.
IMAGE AND VISION COMPUTING, vol.21, no.11, pp.941-954, 2003 (SCI-Expanded)

XIV. **Four methods for short-term load forecasting using the benefits of artificial intelligence**
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XV. **Snake robots to the rescue!**
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IEEE ROBOTICS & AUTOMATION MAGAZINE, vol.9, no.3, pp.17-25, 2002 (SCI-Expanded)

XVI. **Two-way fuzzy adaptive identification and control of a flexible-joint robot arm**
Gurkan E., Erkmen I., Erkmen A.
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XVII. **Robot hand preshaping and regrasping using genetic algorithms**
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INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH, vol.19, no.9, pp.857-874, 2000 (SCI-Expanded)

XVIII. **The multidisciplinary International Virtual Design Studio (MIVDS)**
Erden A., Erkmen A., Erkmen I., Bucinell R., Traver C., Notash L.
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XIX. **Optimal initialization of manipulation dynamics by vorticity model of robot hand preshaping. Part I: Vorticity model**
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XX. **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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XXI. **Haptic perception of shape and hollowness of deformable objects using the Anthrobot-III robot hand**
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I. **Towards the robotic "avatar": An extensive survey of the cooperation between and within networked mobile sensors**
Topal S., ERKMEN İ., ERKMEN A. M.
Future Internet, vol.2, no.3, pp.363-387, 2010 (Scopus)

II. **Percolation enhanced prioritised multi-robot exploration of unstructured environments**
Topal S., ERKMEN İ., ERKMEN A. M.
International Journal of Reasoning-based Intelligent Systems, vol.2, no.3-4, pp.217-225, 2010 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **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

III. **IMITATION OF HUMAN BODY POSES BY THE FORMATION CONTROL OF A FLUIDIC SWARM**
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11th ASME Biennial Conference on Engineering Systems Design and Analysis, (ESDA 2012), Nantes, France, 2 - 04 July 2012, pp.361-370

IV. **Morphing Estimated Human Intention via Human-Robot Interactions**
Durdu A., ERKMEN İ., ERKMEN A. M., Yilmaz A.
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V. **Improvisation Based on Imitating Human Players by a Robotic Acoustic Musical Device**
Aydin K. K., ERKMEN A. M., ERKMEN İ.
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VI. **Proxy-Based Sliding Mode Stabilization of a Two-Axis Gimbaled Platform**
Hasturk O., ERKMEN A. M., ERKMEN İ.
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VII. **Imitation of Hand Postures with Particle Based Fluidics Method**
Tilki U., ERKMEN İ., ERKMEN A. M.
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VIII.   **A Novel Map Merging Methodology for Multi-Robot Systems**
Topal S., ERKMEN İ., ERKMEN A. M.
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IX.   **Momentum Transfer from the Fingers to Object Based on Fluid Dynamics**
Ozyer B., ERKMEN İ., ERKMEN A. M.
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X.   **CATCHING CONTINUUM BETWEEN PRESHAPE AND GRASPING BASED ON FLUIDICS**
Ozyer B., ERKMEN İ., ERKMEN A. M.
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XI.   **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

XII.   **A snake-like robot for variable friction unstructured terrains, pushing aside debris in clearing passages**
Caglav E., ERKMEN A. M., ERKMEN İ.
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XIII.   **Scalable self-deployment of mobile sensor networks: A fluid dynamics approach**
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XIV.   **FACL based 3D grasping controller for a snake robot during locomotion**
Ari E. O., ERKMEN İ., ERKMEN A. M.
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XVI.   **3-D grasping during serpentine motion with a snake-like robot**
Atakan B., Erkmen A., Erkmen I.
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XVII.   **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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XVIII.   **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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XIX.   **Equivalent linearization of 2-way fuzzy adaptive system under nonparametric uncertainty and inconsistency**
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XXI. **The self-reconfiguration of a holonic hand: The holonic regrasp**
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XXII. **Self-reconfiguration in task space of a holonic structure**
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XXIII. **Reducing inconsistencies in intuitionistic 2-way adaptive fuzzy control systems**
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XXIV. **Game theoretic colony control of holonic robots inspecting inner surfaces of pipes**
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XXV. **DESIGN OF A HOLONIC SELF-RECONFIGURABLE ROBOTIC SYSTEM**
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XXXI. **FUZZY DYNAMIC-PROGRAMMING**
ALKAN M., ERKMEN A., ERKMEN I.
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ERKMEN I., YURTSEVEN H.
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XXXIII. **A SOFTWARE TOOL FOR ACADEMIC ADVISERS FOR STUDENT PERFORMANCE FOLLOW-UP**
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XXXV. **SENS-PERCEPTOR - IMAGE-BASED EVIDENCE FORMATION MODULE AS A LOGICAL SENSOR FOR ROBOT HAND PRESHAPING**

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Metrics

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H-Index (Scopus): 10

Non Academic Experience

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