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Foreign Languages

French, C1 Advanced

English, C1 Advanced

Advising Theses

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

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

ERKMEN A. M. , Dynamic formation control with heterogeneous mobile robots, Postgraduate, K.ÇİMENÇİ(Student), 2016

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

ERKMEN A. M. , ONLINE MINING OF HUMAN DEEP INTENTION BY PROACTIVE ENVIRONMENT CHANGES USING DEEP NEURAL NETWORKS, Postgraduate, N.BAKİ(Student), 2015

ERKMEN A. M. , Growing 3D maps from 2D SLAM maps obtained by indoor SLAM with heterogeneous mobile robots, Postgraduate, B.Çetinkaya(Student), 2015

ERKMEN A. M. , Self- reconfigurable modular exoskeleton, Postgraduate, Ç.ALTINTAŞI(Student), 2014

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

ERKMEN A. M. , Cascaded proxy-based sliding mode control enhanced with disturbance observer for the stabilization and control of a gun-turret platform/, Postgraduate, E.ÇANDIR(Student), 2014

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, Doctorate, K.AYDIN(Student), 2013

ERKMEN A. M. , Sycophant wireless sensor networks tracked by sparse mobile wireless sensor networks while cooperatively mapping an area, Doctorate, S.Doğru(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 A. M. , The stabilization of a two axes gimbal of a roll stabilized missile, Postgraduate, Ö.Hastürk(Student), 2011

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

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

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

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

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

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

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

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

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

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

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

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

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

ERKMEN İ., ERKMEN A. M. , 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. , Uncertainty modelling and stability analysis for 2-way fuzzy adaptive systems, Doctorate, E.GÜRKAN(Student), 2003

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

ERKMEN İ., ERKMEN A. M. , 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. , Intelligent gait synthesizer for serpentine robots, Postgraduate, G.MELTEM(Student), 2001

ERKMEN A. M. , Minimizing uncertainty in rough control boundaries of robot path planning using decay adjustment algorithm (DDA), Postgraduate, U.ZEKİ(Student), 2001

ERKMEN A. M. , Guidance control of a missile with noisy inertial sensors, Postgraduate, A.GALİP(Student), 2000

ERKMEN A. M. , Holonic modelling of robot hands, Postgraduate, M.DURNA(Student), 1999

ERKMEN A. M. , Narrowing the boundary region of rough sets using neural networks, Postgraduate, İ.TOPALLI(Student), 1999

ERKMEN A. M. , intelligent scheduling using fuzzy genetic algorithms, Postgraduate, M.ERBUDAK(Student), 1997

ERKMEN A. M. , Neuro controlled fractal inference networks and their application to grasping with multifingered robot hands, Doctorate, S.Nazlıbilek(Student), 1993

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ERKMEN A. M. , Generating performance criteria for trainer sets of learning systems using cell-to-cell mapping, Postgraduate, M.ÜNERİ(Student), 1993

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

- I. **Coriolis Vibratory MEMS Gyro Drive Axis Control with Proxy-Based Sliding Mode Controller**
Ozturk D. U. , ERKMEN A. M.
MICROMACHINES, vol.13, no.3, 2022 (Journal Indexed in SCI)
- II. **DUDMap: 3D RGB-D mapping for dense, unstructured, and dynamic environment**
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- III. **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, vol.20, no.20, pp.1-35, 2020 (Journal Indexed in SCI)
- IV. **Reshaping human intention in Human-Robot Interactions by robot moves A comparative analysis of HMM and OOM methods**
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INTERACTION STUDIES, vol.20, no.3, pp.530-560, 2019 (Journal Indexed in SSCI)
- V. **Estimating and reshaping human intention via human robot interaction**
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TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.1, pp.88-104, 2016 (Journal Indexed in SCI)
- VI. **Fluid swarm formation control for hand gesture imitation by ellipse fitting**
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- VII. **Prioritized Mobile Robot Exploration Based on Percolation Enhanced Entropy Based Fast SLAM**
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- VIII. **Momentum Transfer from Preshape to Grasping**
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- IX. **A novel multirobot map fusion strategy for occupancy grid maps**
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- X. **Imitation of basic hand preshapes by fluid based method: fluidics formation control**
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- XI. **An Intelligent Inference System for Robot Hand Optimal Grasp Preshaping**
BAYSAL C. V. , ERKMEN A. M.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.3, no.5, pp.656-673, 2010 (Journal Indexed in SCI)
- XII. **Enhancing positioning accuracy of GPS/INS system during GPS outages utilizing artificial neural network**
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- XIII. **Intelligent analysis of chaos roughness in regularity of walk for a two legged robot**
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- XIV. **A Petri net approach to behavioural simulation of design artefacts with application to mechatronic design**
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RESEARCH IN ENGINEERING DESIGN-THEORY APPLICATIONS AND CONCURRENT ENGINEERING, vol.14, no.1, pp.34-46, 2003 (Journal Indexed in SCI)
- XV. **Snake robots to the rescue!**
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- 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. **Mechatronics education**
Erkmen A., Tsubouchi T., Murphy R.
IEEE ROBOTICS & AUTOMATION MAGAZINE, vol.8, no.2, pp.4, 2001 (Journal Indexed in SCI)
- XVIII. **Robot hand preshaping and regrasping using genetic algorithms**
Erkmen I., Erkmen A., Gunver H.
INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH, vol.19, no.9, pp.857-874, 2000 (Journal Indexed in SCI)
- XIX. **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, no.3, pp.288-295, 2000 (Journal Indexed in SCI)
- XX. **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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- XXI. **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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- XXII. **Haptic perception of shape and hollowness of deformable objects using the Anthrobot-III robot hand**
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- XXIII. **A computerized diagnostic system for the interpretation of umbilical artery blood flow velocity waveforms**
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- XXIV. **INTERPRETATION OF DOPPLER BLOOD-FLOW VELOCITY WAVE-FORMS USING NEURAL NETWORKS**
BAYKAL N., REGGIA J., YALABIK N., ERKMEN A., BEKSAC M.
JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION, pp.865-869, 1994 (Journal Indexed in SCI)

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. **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, Poland, 27 - 30 July 2016
- III. **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 August 2014, pp.1012-1017
- IV. **Intelligent Mesh For Self Reconfigurability of an Exoskeleton Arm**
altintasi c., ERKMEN A. M.
19th IFAC (International Federation on Automatic Control) World Congress, 27 - 31 August 2014
- V. **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

- VI. **Improvisation Based on Imitating Human Players by a Robotic Acoustic Musical Device**
Aydin K. K. , ERKMEN A. M. , ERKMEN İ.
World Congress on Engineering and Computer Science (WCECS 2011), San-Francisco, Costa Rica, 19 - 21 October 2011, pp.331-336
- VII. **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
- VIII. **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
- IX. **Musical State Representation for Imitating Human Players by a Robotic Acoustic Musical Device**
ERKMEN A. M. , aydin k.
IEEE International Conference on Mechatronics ICM 2011, 3 - 08 April 2011
- X. **A Novel Map Merging Methodology for Multi-Robot Systems**
Topal S., 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.383-387
- XI. **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
- XII. **Momentum Transfer from the Fingers to Object Based on Fluid Dynamics**
Ozyer B., ERKMEN İ., ERKMEN A. M.
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- XIII. **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
- XIV. **Cooperation of three UAV's for Aerial Rescue and Aerial Retrieval**
ERKMEN A. M. , YAVRUCUK İ., cakir z.
ICAST 09, IEEE International Conference on Adaptive Science and Technology, 14 - 16 December 2009
- XV. **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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- XVI. **Imitation of Basic Hand Preshapes by Fluid Based Method: Fluidic Formation Control**
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- XVII. **NEW PRIORITIZED MULTI-ROBOT EXPLORATION STRATEGY BASED ON PERCOLATION MODEL IN UNKNOWN ENVIRONMENTS**
Topal S., ERKMEN İ., ERKMEN A. M.
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- XVIII. **"Morphing a Mobile Robot Network to Dynamic Task Changes over time and space**
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- XIX. **Intelligent Coordination of Multi-Robots for Victim Search Operations,**

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- XX. **“New Prioritized Multi-Robot Exploration Strategy Based on Percolation Model in Unknown Environment**
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- XXI. **A snake-like robot for variable friction unstructured terrains, pushing aside debris in clearing passages**
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- XXII. **Control of Robotic Swarm Behaviors based on Smoothed Particle Hydrodynamics**
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- XXIII. **A Fluid Dynamics Paradigm for Control of MAV Swarms”, Full Day Workshop on “ Micro Aerial Vehicles: Design, Control and Navigation**
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- XXIV. **FACL based 3D grasping controller for a snake robot during locomotion**
Ari E. O. , ERKMEN İ., ERKMEN A. M.
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- XXV. **Scalable self-deployment of mobile sensor networks: A fluid dynamics approach**
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- XXVI. **A behavior based layered, hybrid, control architecture for robot/sensor networks**
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- XXVII. **3-D grasping during serpentine motion with a snake-like robot**
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- XXVIII. **Equivalent linearization of 2-way fuzzy adaptive system under nonparametric uncertainty and inconsistency**
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- XXIX. **Evaluation of inconsistency in a 2-way fuzzy adaptive system using shadowed sets**
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- XXX. **Self-reconfiguration in task space of a holonic structure**
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- XXXI. **The self-reconfiguration of a holonic hand: The holonic regrasp**

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- XXXIII. **Reducing inconsistencies in intuitionistic 2-way adaptive fuzzy control systems**
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- XXXIV. **Game theoretic colony control of holonic robots inspecting inner surfaces of pipes**
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- XXXV. **DESIGN OF A HOLONIC SELF-RECONFIGURABLE ROBOTIC SYSTEM**
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- XXXVI. **Intuitionistic, 2-way adaptive fuzzy control**
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- XXXVII. **Decision and feature fusion over the fractal inference network using camera and range sensors**
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- XXXVIII. **Holonic grasping**
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- XXXIX. **A Petri Net-based inference network for design automation under nondeterminism applied to
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- XL. **Genetic algorithm based optimal regrasping with the anthropot 5-fingered robot hand**
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- XLI. **Tagged potential field extension to self organizing feature maps**
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- 23 April 1998, pp.292-298
- XLII. **An automated blood cell analysis and classification system**
Ongun G., Halici U., Leblebicioglu K., Atalay V., Erkmen A., Beksac S., Beksac M., Erol A.
13th International Symposium on Computer and Information Sciences (ISCIS 98), BELEK ANTALYA, Turkey, 26 -
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- XLIII. **Interacting fuzzy multimodel intelligent tracking system for swift target manoeuvres**
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Applications (IROS 97), Grenoble, France, 7 - 11 September 1997, pp.766-771
- XLIV. **Tracking a swift target using the interacting fuzzy multi-model algorithm**
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- 1997 IEEE International Symposium on Intelligent Control, İstanbul, Turkey, 16 - 18 July 1997, pp.331-336
- XLV. **Optimal robot hand preshaping control using genetic algorithms**
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- XLVI. **Genetically tuned fuzzy scheduling for flexible manufacturing systems.**
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- XLVII. **FUZZY DYNAMIC-PROGRAMMING**
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- XLVIII. **FROM FETAL BLOOD-FLOW DOPPLER ULTRASOUND IMAGES USING WAVELET TRANSFORMS**
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- XLIX. **SENS-PERCEPTOR - IMAGE-BASED EVIDENCE FORMATION MODULE AS A LOGICAL SENSOR FOR ROBOT HAND PRESHAPING**
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- L. **FUZZY CELL-TO-CELL MAPPING**
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- LI. **FRACTAL SET-THEORETIC ANALYSIS OF PERFORMANCE LOSSES FOR TUNING TRAINING DATA IN LEARNING-SYSTEMS**
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- LII. **EROSION OF BASINS OF ATTRACTION - PERFORMANCE LOSSES IN SENSORIMOTOR LEARNING OF A ROBOT MANIPULATOR**
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1992 IEEE INTERNATIONAL SYMP ON INTELLIGENT CONTROL, Glasgow, United Kingdom, 11 - 13 August 1992, pp.77-84
- LIII. **A NEURAL CONTROLLER FOR LOCAL ACTIVATION IN FRACTAL INFORMATION NETWORK**
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- LIV. **PARALLEL DISTRIBUTED INFORMATION-PROCESSING BASED ON FRACTAL CONDUCTIVITY**
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Supported Projects

ERKMEN A. M. , Project Supported by Higher Education Institutions, Mobil Robotlarda Koordineli Çalışabilen Asalak Sensör Ağları Geliştirme Ve Bu Hibrid Ağ Yapısıyla 3 Boyutlu Çerçeve Kestintisiz Veri Toplama, 2008 - Continues

Citations

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