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Kişisel Bilgiler

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Yabancı Diller

Fransızca, C1 İleri

İngilizce, C1 İleri

Yönetilen Tezler

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. , Prediction of renal respiratory motion for compensation during percutaneous needle insertion in robot assisted surgery, Yüksek Lisans, M.ÇETİNKAYA(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. , ONLINE MINING OF HUMAN DEEP INTENTION BY PROACTIVE ENVIRONMENT CHANGES USING DEEP NEURAL NETWORKS, Yüksek Lisans, N.BAKİ(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

ERKMEN A. M. , Self- reconfigurable modular exoskeleton, Yüksek Lisans, Ç.ALTINTAŞI(Öğrenci), 2014

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

ERKMEN A. M. , Cascaded proxy-based sliding mode control enhanced with disturbance observer for the stabilization and control of a gun-turret platform, Yüksek Lisans, E.ÇANDIR(Öğrenci), 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, Doktora, K.AYDIN(Öğrenci), 2013

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

ERKMEN İ., ERKMEN A. M. , İnsan-robot etkileşiminde, tahmin edilen insan niyetinin değiştirilmesi için robotik sistem tasarımı., Doktora, A.Durdu(Öğrenci), 2012

ERKMEN A. M. , Yuvarlanma kontrollü bir füze için iki ekseninde 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.ADLİ(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

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

ERKMEN İ., ERKMEN A. M. , 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 İ., ERKMEN A. M. , Biologically inspired multichannel modelling of human visual perceptual system, Yüksek Lisans, M.APAYDIN(Öğrenci), 2005

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ERKMEN A. M. , Mobil ortamda kullanıcı profillemesi ve durum muhakeme tabanlı akıllı öneri sistemi, Yüksek Lisans, S.Ulucan(Öğrenci), 2005

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

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

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

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

ERKMEN A. M. , Guidance control of a missile with noisy inertial sensors, Yüksek Lisans, A.GALİP(Öğrenci), 2000

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ERKMEN A. M. , Generating performance criteria for trainer sets of learning systems using cell-to-cell mapping, Yüksek Lisans, M.ÜNİRİ(Öğrenci), 1993

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. Coriolis Vibratory MEMS Gyro Drive Axis Control with Proxy-Based Sliding Mode Controller
Ozturk D. U. , ERKMEN A. M.
MICROMACHINES, cilt.13, sa.3, 2022 (SCI İndekslerine Giren Dergi)

- II. **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 İndekslerine Giren Dergi)
- 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, cilt.20, sa.20, ss.1-35, 2020 (SCI İndekslerine Giren Dergi)
- IV. **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 İndekslerine Giren Dergi)
- V. **Estimating and reshaping human intention via human robot interaction**
DURDU A., ERKMEN İ., ERKMEN A. M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.24, sa.1, ss.88-104, 2016 (SCI İndekslerine Giren Dergi)
- VI. **Fluid swarm formation control for hand gesture imitation by ellipse fitting**
TİLKİ U., ERKMEN A. M.
ELECTRONICS LETTERS, cilt.51, sa.6, ss.473-474, 2015 (SCI İndekslerine Giren Dergi)
- VII. **Prioritized Mobile Robot Exploration Based on Percolation Enhanced Entropy Based Fast SLAM**
Karahan M., ERKMEN A. M. , ERKMEN İ.
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- VIII. **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 İndekslerine Giren Dergi)
- IX. **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 İndekslerine Giren Dergi)
- X. **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 İndekslerine Giren Dergi)
- XI. **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 İndekslerine Giren Dergi)
- XII. **Enhancing positioning accuracy of GPS/INS system during GPS outages utilizing artificial neural network**
Kaygisiz B. H. , Erkmen A. M. , Erkmen İ.
NEURAL PROCESSING LETTERS, cilt.25, sa.3, ss.171-186, 2007 (SCI İndekslerine Giren Dergi)
- XIII. **Intelligent analysis of chaos roughness in regularity of walk for a two legged robot**
Kaygisiz B., Erkmen İ., Erkmen A.
CHAOS SOLITONS & FRACTALS, cilt.29, sa.1, ss.148-161, 2006 (SCI İndekslerine Giren Dergi)
- XIV. **A Petri net approach to behavioural simulation of design artefacts with application to mechatronic design**
Erden Z., Erden A., Erkmen A.
RESEARCH IN ENGINEERING DESIGN-THEORY APPLICATIONS AND CONCURRENT ENGINEERING, cilt.14, sa.1, ss.34-46, 2003 (SCI İndekslerine Giren Dergi)
- XV. **Snake robots to the rescue!**
Erkmen İ., Erkmen A., Matsuno F., Chatterjee R., Kamegawa T.
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- XVI. **Two-way fuzzy adaptive identification and control of a flexible-joint robot arm**
Gurkan E., Erkmen I., Erkmen A.
INFORMATION SCIENCES, cilt.145, ss.13-43, 2002 (SCI İndekslerine Giren Dergi)
- XVII. **Mechatronics education**
Erkmen A., Tsubouchi T., Murphy R.
IEEE ROBOTICS & AUTOMATION MAGAZINE, cilt.8, sa.2, ss.4, 2001 (SCI İndekslerine Giren Dergi)
- XVIII. **Robot hand preshaping and regrasping using genetic algorithms**
Erkmen I., Erkmen A., Gunver H.
INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH, cilt.19, sa.9, ss.857-874, 2000 (SCI İndekslerine Giren Dergi)
- XIX. **The multidisciplinary International Virtual Design Studio (MIVDS)**
Erden A., Erkmen A., Erkmen I., Bucinell R., Traver C., Notash L.
IEEE TRANSACTIONS ON EDUCATION, cilt.43, sa.3, ss.288-295, 2000 (SCI İndekslerine Giren Dergi)
- 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**
Erkmen I., Erkmen A., Tekkaya A., Pasinlioglu T.
JOURNAL OF ROBOTIC SYSTEMS, cilt.16, sa.1, ss.9-24, 1999 (SCI İndekslerine Giren Dergi)
- XXIII. **A computerized diagnostic system for the interpretation of umbilical artery blood flow velocity waveforms**
Beksac M., Basaran F., Eskiizmirli S., Erkmen A., Yorukan S.
EUROPEAN JOURNAL OF OBSTETRICS & GYNECOLOGY AND REPRODUCTIVE BIOLOGY, cilt.64, sa.1, ss.37-42, 1996 (SCI İndekslerine Giren Dergi)
- 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, ss.865-869, 1994 (SCI İndekslerine Giren Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- 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, Türkiye, 25 - 27 Ekim 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, Polonya, 27 - 30 Temmuz 2016
- III. **Elastic Networks in Reshaping Human Intentions by Proactive Social Robot Moves**
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23rd IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN), Edinburgh, Saint Helena, 25 - 29 Ağustos 2014, ss.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 Ağustos 2014

- V. **IMITATION OF HUMAN BODY POSES BY THE FORMATION CONTROL OF A FLUIDIC SWARM**
Tilki U., ERKMEN İ., ERKMEN A. M.
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- 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, Kostarika, 19 - 21 Ekim 2011, ss.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, Kostarika, 19 - 21 Ekim 2011, ss.354-359
- VIII. **Proxy-Based Sliding Mode Stabilization of a Two-Axis Gimbaled Platform**
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- IX. **Musical State Representation for Imitating Human Players by a Robotic Acoustic Musical Device**
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- X. **A Novel Map Merging Methodology for Multi-Robot Systems**
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- XI. **Imitation of Hand Postures with Particle Based Fluidics Method**
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- XII. **Momentum Transfer from the Fingers to Object Based on Fluid Dynamics**
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- XIII. **CATCHING CONTINUUM BETWEEN PRESHAPE AND GRASPING BASED ON FLUIDICS**
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- XIV. **Cooperation of three UAV's for Aerial Rescue and Aerial Retrieval**
ERKMEN A. M. , YAVRUCUK İ., cakir z.
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- XV. **Tracking a sycophant wireless sensor network for its seamless integration to mobile sensor networks**
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- XVI. **Imitation of Basic Hand Preshapes by Fluid Based Method: Fluidic Formation Control**
ERKMEN A. M. , TILKİ U., erkmen i.
10th ELECO International Conference on Electrical Electronics and Computer Engineering, 5 - 08 Kasım 2009
- 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**
ERKMEN A. M. , Topal S., erkmen i.
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- XIX. **Intelligent Coordination of Multi-Robots for Victim Search Operations,**
ERKMEN A. M. , Topal S., erkmen i.
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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**
Caglav E., ERKMEN A. M. , ERKMEN İ.
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- XXII. **Control of Robotic Swarm Behaviors based on Smoothed Particle Hydrodynamics**
ERKMEN A. M. , erkmen i., paç r.
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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**
Pac M. R. , Erkmen A. M. , Erkmen I.
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- XXVI. **A behavior based layered, hybrid, control architecture for robot/sensor networks**
Akin B., ERKMEN A. M. , ERKMEN İ.
IEEE International Conference on Robotics and Automation (ICRA), Florida, Amerika Birleşik Devletleri, 15 - 19 Mayıs 2006, ss.206-207
- XXVII. **3-D grasping during serpentine motion with a snake-like robot**
Atakan B., Erkmen A., Erkmen I.
6th IASTED International Conference on Robotics and Applications, Cambridge, Kanada, 31 Ekim - 02 Kasım 2005, ss.46-51
- XXVIII. **Equivalent linearization of 2-way fuzzy adaptive system under nonparametric uncertainty and inconsistency**
Gurkan E., Banks S., Erkmen A., Erkmen I.
5th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science, Ghent, Belçika, 16 - 18 Eylül 2002, ss.453-460
- XXIX. **Evaluation of inconsistency in a 2-way fuzzy adaptive system using shadowed sets**
Gurkan E., Erkmen A., Erkmen I.
31st IEEE International Symposium on Multiple-Valued Logic (ISMVL 2001), Warszawa, Polonya, 22 - 24 Mayıs 2001, ss.109-115
- XXX. **Self-reconfiguration in task space of a holonic structure**
Durna M., Erkmen I., Erkmen A.

- IEEE/Robotics-Society-of-Japan International Conference on Intelligent Robots and Systems (IROS 2000), Takamatsu, Japonya, 31 Ekim - 05 Kasım 2000, ss.2366-2373
- XXXI. **The self-reconfiguration of a holonic hand: The holonic regrasp**
Durna M., Erkmen A., Erkmen I.
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- XXXII. **Resilient backpropagation for RBF networks**
Baykal N., Erkmen A.
4th International Conference on Knowledge-Based Intelligent Engineering Systems and Allied Technologies, Brighton, Birleşik Krallık, 30 - 31 Ağustos 2000, ss.624-627
- XXXIII. **Reducing inconsistencies in intuitionistic 2-way adaptive fuzzy control systems**
Gurkan E., Erkmen A., Erkmen I.
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- XXXIV. **Game theoretic colony control of holonic robots inspecting inner surfaces of pipes**
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4th International Conference and Exposition/Demonstration on Robotics for Challenging Situations and Environments, New-Mexico, Amerika Birleşik Devletleri, 27 Şubat - 02 Mart 2000, ss.234-240
- XXXV. **DESIGN OF A HOLONIC SELF-RECONFIGURABLE ROBOTIC SYSTEM**
TURGUT A. E. , Durna M., ERKMEN İ., ERKMEN A. M. , Erden A.
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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 mechatronic systems**
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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**
Baykal N., Erkmen A.
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- XLII. **An automated blood cell analysis and classification system**
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- XLIII. **Interacting fuzzy multimodel intelligent tracking system for swift target manoeuvres**
Gokkus L., Erkmen A., Tekinalp O.
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Applications (IROS 97), Grenoble, Fransa, 7 - 11 Eylül 1997, ss.766-771

- XLIV. **Tracking a swift target using the interacting fuzzy multi-model algorithm**
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- XLV. **Optimal robot hand preshaping control using genetic algorithms**
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