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Learning Knowledge

Doctorate 2000 - 2008	Middle East Technical University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey
Postgraduate 1996 - 1999	Middle East Technical University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey
Undergraduate 1992 - 1996	Middle East Technical University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey

Dissertations

Doctorate, Self organized flocking with a mobile robot swarm, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 2008

Postgraduate, Development of a metamorphic robotic system, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1999

Academic Titles / Tasks

Assistant Professor 2018 - Continues	Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering
Assistant Professor 2015 - 2018	Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering
Assistant Professor 2012 - 2013	University Of Turkish Aeronautical Association, Faculty Of Engineering, Department Of Mechatronics Engineering

Supported Projects

1. Şahin E., Turgut A. E., Alemdar H., H2020 Project, ROBOTic Replicants for Optimizing the Yield by Augmenting Living Ecosystems, 2021 - 2026

2. Arıkan K. B. , Yozgatlıgil C., Turgut A. E. , Cengiz B., Zinnuroğlu M., Batur Çağlayan H. Z. , Boran H. E. , Ünal Ç. T. , Gürses S., Günendi Z., TÜBİTAK Project, El için Robotik Ayna Terapi Sisteminin Motor Öğrenme Temelli Geliştirilmesi, 2021 - 2024
3. Ulusoy İ., Halıcı U., Bayram B., Ankaralı M. M. , Temizel A., Gençer N. G. , Akar G., Ertekin Bolelli Ş., Turgut A. E. , Son Ç. D. , et al, CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, NÖROM Nörobilim ve Nöroteknoloji Mükemmeliyet Merkezi, 2020 - 2023
4. Şahin E., Turgut A. E. , Company, Sürü İHA Geliştirme Projesi, 2019 - 2021
5. Şahin E., Turgut A. E. , Project Supported by Other Private Institutions, Sürü İHA Teknoloji Kazanım Yukumluluğu projesi, 2017 - 2019
6. TURGUT A. E. , Çamdere S. C. , Project Supported by Higher Education Institutions, KOBOT GEZGİN ROBOT SÜRÜSÜNÜN MODERNİZASYONU, 2017 - 2019
7. Arıkan K. B. , Turgut A. E. , TÜBİTAK Project, Ayna Nöronların İrdelenmesi Ve Robotik Ayna Terapisi Sisteminin Geliştirilmesi, 2015 - 2018
8. TURGUT A. E. , KAYGUSUZ B., Project Supported by Higher Education Institutions, Sürü Robotlar için Minyatür Piezo Elektrik Tabanlı Tutucu Geliştirilmesi, 2016 - 2016
9. Dorigo M., Turgut A. E. , FP7 Project, Engineering Swarm Intelligence Systems, 2010 - 2015
10. Turgut A. E. , TÜBİTAK Project, Sürü Robotlarda İş Bölümünün Evrimsel Yöntemlerle Tasarlanması, 2014 - 2014
11. Dorigo M., Turgut A. E. , FP6 Project, Swarmanoid: towards humanoid robotic swarms, 2006 - 2010

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

1. **A novel vision-based calibration framework for industrial robotic manipulators**
Balanji H. M. , TURGUT A. E. , Tunc L. T.
ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING, vol.73, 2022 (Journal Indexed in SCI)
2. **Bio-inspired artificial pheromone system for swarm robotics applications**
Na S., Qiu Y., Turgut A. E. , Ulrich J., Krajnik T., Yue S., Lennox B., Arvin F.
Adaptive Behavior, vol.29, no.4, pp.395-415, 2021 (Journal Indexed in SCI Expanded)
3. **Constrained discrete-time optimal control of uncertain systems with adaptive Lyapunov redesign**
ALTINTAS O. H. , TURGUT A. E.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.29, no.3, pp.1836-1851, 2021 (Journal Indexed in SCI)
4. **A self-adaptive landmark-based aggregation method for robot swarms**
Sadeghi Amjadi A., Raoufi M., TURGUT A. E.
ADAPTIVE BEHAVIOR, 2021 (Journal Indexed in SCI)
5. **Robust Formation Coordination of Robot Swarms with Nonlinear Dynamics and Unknown Disturbances: Design and Experiments**
Hu J., TURGUT A. E. , Lennox B., Arvin F.
IEEE Transactions on Circuits and Systems II: Express Briefs, 2021 (Journal Indexed in SCI Expanded)
6. **Interaction network effects on position- and velocity-based models of collective motion**
TURGUT A. E. , Boz I. C. , Okay I. E. , Ferrante E., Huepe C.
JOURNAL OF THE ROYAL SOCIETY INTERFACE, vol.17, no.169, 2020 (Journal Indexed in SCI)
7. **Occlusion-Based Coordination Protocol Design for Autonomous Robotic Shepherding Tasks**
Hu J., TURGUT A. E. , Krajnik T., Lennox B., Arvin F.
IEEE Transactions on Cognitive and Developmental Systems, 2020 (Journal Indexed in SCI Expanded)
8. **Anticipatory effect of execution on observation: an approach using ExoPinch finger robot**
Arıkan K. B. , Zadeh H. G. M. , TURGUT A. E. , ZİNNUROĞLU M., Bayer G., GÜNENDİ Z., CENGİZ B.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.49, no.4, pp.1054-1067, 2019 (Journal Indexed in SCI)
9. **Perpetual Robot Swarm: Long-Term Autonomy of Mobile Robots Using On-the-fly Inductive Charging**
Arvin F., Watson S., TURGUT A. E. , Espinosa J., Krajnik T., Lennox B.
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, vol.92, pp.395-412, 2018 (Journal Indexed in SCI)

10. **Analysis of mirror neuron system activation during action observation alone and action observation with motor imagery tasks**
CENGİZ B., Vuralli D., ZİNNUROĞLU M., Bayer G., Golmohammadzadeh H., GÜNENDİ Z., TURGUT A. E. , İRFANOĞLU B., ARIKAN K. B.
EXPERIMENTAL BRAIN RESEARCH, vol.236, no.2, pp.497-503, 2018 (Journal Indexed in SCI)
11. **Measures of dynamism and urgency in logistics**
van Lon R. R. S. , Ferrante E., Turgut A. E. , Wenseleers T., Vanden Berghe G., Holvoet T.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.253, no.3, pp.614-624, 2016 (Journal Indexed in SCI)
12. **Investigation of cue-based aggregation in static and dynamic environments with a mobile robot swarm**
Arvin F., TURGUT A. E. , Krajnik T., Yue S.
ADAPTIVE BEHAVIOR, vol.24, no.2, pp.102-118, 2016 (Journal Indexed in SCI)
13. **Evolution of Self-Organized Task Specialization in Robot Swarms**
Ferrante E., TURGUT A. E. , Duenez-Guzman E., Dorigo M., Wenseleers T.
PLOS COMPUTATIONAL BIOLOGY, vol.11, no.8, 2015 (Journal Indexed in SCI)
14. **Scale-Free Correlations in Flocking Systems with Position-Based Interactions**
Huepe C., Ferrante E., Wenseleers T., TURGUT A. E.
JOURNAL OF STATISTICAL PHYSICS, vol.158, no.3, pp.549-562, 2015 (Journal Indexed in SCI)
15. **Cue-based aggregation with a mobile robot swarm: a novel fuzzy-based method**
Arvin F., TURGUT A. E. , Bazyari F., Arikan K. B. , Bellotto N., Yue S.
ADAPTIVE BEHAVIOR, vol.22, no.3, pp.189-206, 2014 (Journal Indexed in SCI)
16. **A self-adaptive communication strategy for flocking in stationary and non-stationary environments**
Ferrante E., TURGUT A. E. , Stranieri A., Pinciroli C., Birattari M., Dorigo M.
NATURAL COMPUTING, vol.13, no.2, pp.225-245, 2014 (Journal Indexed in SCI)
17. **Elasticity-Based Mechanism for the Collective Motion of Self-Propelled Particles with Springlike Interactions: A Model System for Natural and Artificial Swarms**
Ferrante E., TURGUT A. E. , Dorigo M., Huepe C.
PHYSICAL REVIEW LETTERS, vol.111, no.26, 2013 (Journal Indexed in SCI)
18. **Collective motion dynamics of active solids and active crystals**
Ferrante E., TURGUT A. E. , Dorigo M., Huepe C.
NEW JOURNAL OF PHYSICS, vol.15, 2013 (Journal Indexed in SCI)
19. **Self-organized flocking with a mobile robot swarm: a novel motion control method**
Ferrante E., TURGUT A. E. , Huepe C., Stranieri A., Pinciroli C., Dorigo M.
ADAPTIVE BEHAVIOR, vol.20, no.6, pp.460-477, 2012 (Journal Indexed in SCI)
20. **Self-organized flocking in mobile robot swarms**
Turgut A. E. , Çelikkanat H., Gökçe F., Şahin E.
Swarm Intelligence, vol.2, pp.97-120, 2008 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

1. **A Model - Based Jamming Detection Method for Electro-Hydrostatic Actuators**
Poyraz E. M. , TURGUT A. E. , ÇALIŞKAN H.
Hittite Journal of Science Engineering, vol.7, no.3, pp.189-198, 2020 (Refereed Journals of Other Institutions)
2. **A Novel Navigation Algorithm for Mapping Indoor Environments with a Quadrotor**
Oral O., TURGUT A. E. , ARIKAN K. B.
Hittite Journal of Science Engineering, vol.7, no.2, pp.125-134, 2020 (Refereed Journals of Other Institutions)
3. **Aeroelastic Analysis of a Flapping Blow Fly Wing**
Beker C., TURGUT A. E. , ARIKAN K. B. , KURTULUŞ D. F.
International Journal of Aviation Science and Technology, vol.1, pp.14-21, 2020 (Other Refereed National Journals)
4. **Decoupled Cascaded PID Control of an Aerial Manipulation System**

Bulut N., TURGUT A. E. , ARIKAN K. B.

Hittite Journal of Science & Engineering, vol.6, no.4, pp.251-259, 2019 (Refereed Journals of Other Institutions)

5. **İKİ ANTENDEN OLUŞAN RADAR SİSTEMİ İÇİN KATLANMA MEKANİZMASI GELİŞTİRİLMESİ**

Yurt H. K. , TURGUT A. E. , Söylemez E., Güler I., Firtınaoğlu E.

Konya mühendislik bilimleri dergisi (Online), vol.7, pp.948-965, 2019 (Refereed Journals of Other Institutions)

6. **Swarmanoid A Novel Concept for the Study of Heterogeneous Robotic Swarms**

Dorigo M., Floreano D., Gambardella L., Mondada F., Nolfi S., TURGUT A. E.

IEEE Robotics & Automation Magazine, vol.20, no.4, pp.60-71, 2013 (Refereed Journals of Other Institutions)

Books & Book Chapters

1. **Swarm Robotics**

Şahin E., Girgin S., Bayindir L., Turgut A. E.

in: Swarm Intelligence Introduction and Applications, Blum C.,Merkle D., Editor, Springer, London/Berlin , Berlin, pp.87-100, 2008

Refereed Congress / Symposium Publications in Proceedings

1. **Self-organised Flocking of Robotic Swarm in Cluttered Environments**

Liu Z., TURGUT A. E. , Lennox B., Arvin F.

22th Annual Conference Towards Autonomous Robotic Systems, TAROS 2021, Virtual, Online, 8 - 10 September 2021, vol.13054 LNAI, pp.126-135

2. **Investigation of Cue-Based Aggregation Behaviour in Complex Environments**

Wang S., TURGUT A. E. , Schmickl T., Lennox B., Arvin F.

16th EAI International Conference on Collaborative Computing: Networking, Applications, and Worksharing, CollaborateCom 2020, Shanghai, China, 16 - 18 October 2020, vol.350, pp.18-36

3. **Cooperative Pollution Source Exploration and Cleanup with a Bio-inspired Swarm Robot Aggregation**

Sadeghi Amjadi A., Raoufi M., TURGUT A. E. , Broughton G., Krajník T., Arvin F.

16th EAI International Conference on Collaborative Computing: Networking, Applications, and Worksharing, CollaborateCom 2020, Shanghai, China, 16 - 18 October 2020, vol.350, pp.469-481

4. **Collective Gradient Perception in a Flocking Robot Swarm**

Karagüzel T. A. , TURGUT A. E. , Ferrante E.

12th International Conference on Swarm Intelligence, ANTS 2020, Barcelona, Spain, 26 - 28 October 2020, vol.12421 LNCS, pp.290-297

5. **Modelling, control and design of a clutched parallel elastically actuated articulated robotic leg through virtual tunable damping**

TANFENER E., CANDAN S. Ş. , TURGUT A. E. , SARANLI U.

ASME 2020 International Mechanical Engineering Congress and Exposition, IMECE 2020, Virtual, Online, 16 - 19 November 2020, vol.7A-2020

6. **Self-organised Flocking in Robotic Swarm based on Active Elastic Sheet**

Raoufi M., TURGUT A. E. , Lennox B., Arvin F.

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2019), Macau, China, 3 - 08 November 2019

7. **Advection and Diffusion Effects Towards a Bio-inspired Artificial Pheromone System**

Na S., Raoufi M., TURGUT A. E. , Krajník T., Lennox B., Arvin F.

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2019), Macau, China, 3 - 08 November 2019

8. **HAVA ARAÇLARI İÇİN KAPAK MEKANİZMASI ÖN TASARIMI VE GENETİK ALGORİTMA YÖNTEMİ**

KULLANILARAK OPTİMİZASYONU

ÇALIŞKAN H., TURGUT A. E. , AKMAN H.

19. ULUSAL MAKİNA TEORİSİ SEMPOZYUMU. UMTS 2019, İskenderun, Turkey, 4 - 06 September 2019

9. **İKİ ANTENDEN OLUŞAN RADAR SİSTEMİ İÇİN KATLANMA MEKANİZMASI GELİŞTİLMESİ**
YURT H. K. , TURGUT A. E. , SÖYLEMEZ E., Güler İ., Fırtınaoğlu E.
19. Ulusal Makina Teorisi Sempozyumu, UMTS 2019, Iskenderun, Turkey, 4 - 06 September 2019
10. **FLUID-STRUCTURE INTERACTION ANALYSIS OF A FOUR-BAR FLAPPING WING MECHANISM**
Beker C., TURGUT A. E. , ARIKAN K. B. , KURTULUŞ D. F.
IX ECCOMAS Thematic Conference on Smart Structures and Materials SMART 2019, Paris, France, 8 - 11 July 2019
11. **Self-organized Collective Motion with a Simulated Real Robot Swarm**
Raoufi M., TURGUT A. E. , Arvin F.
TAROS 2019, United Kingdom, 3 - 05 July 2019
12. **IHA ile GPS Kullanmadan Kapalı Alanların Haritasının Çıkartılması**
Oral O., TURGUT A. E. , ARIKAN K. B.
Turkey's 5th Robotics Conference (ToRK 2019), İstanbul, Turkey, 26 - 28 June 2019, pp.1-7
13. **Extended Artificial Pheromone System for Swarm Robotic Applications**
Na S., Raoufi M., TURGUT A. E. , Krajnik T., Arvin F.
Conference on Artificial Life (ALIFE) - How Can Artificial Life Help Solve Societal Challenges?, Newcastle-Upon-Tyne, United Kingdom, 29 July - 02 August 2019, pp.608-615
14. **Online Sensor Bias Estimation & Calibration by Kalman Filtering with Adaptive Lyapunov Redesign Method**
Altintas O. H. , TURGUT A. E.
9th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 11 - 14 June 2019, pp.145-152
15. **Computed Torque Control of an Aerial Manipulation System with a Quadrotor and a 2-DOF Robotic Arm**
Bulut N., TURGUT A. E. , Arıkan K. B.
16th International Conference on Informatics in Control, Automation and Robotics (ICINCO), Prague, Czech Republic, 29 - 31 July 2019, pp.510-517
16. **P Phi SS: An Open-Source Experimental Setup for Real-World Implementation of Swarm Robotic Systems in Long-Term Scenarios**
Arvin F., Krajnik T., TURGUT A. E.
5th International Workshop on Modelling and Simulation for Autonomous Systems (MESAS), Prague, Czech Republic, 17 - 19 October 2018, vol.11472, pp.351-364
17. **PΦSS: An Open-source Experimental Setup for Continuous Real-world Implementation of Swarm Robotic Systems**
TURGUT A. E. , Arvin F., Krajnik T.
Modeling and Simulation for Autonomous Systems Conference, 17 - 19 October 2018
18. **φClust: Pheromone-based Aggregation for Robotic Swarms**
Arvin F., TURGUT A. E. , Krajnik T., Rahimi S., Okay E., Shigang Y., Watson S., Lennox B.
IEEE International Conference on Intelligent Robots and Systems, 1 - 05 October 2018
19. **EXOPINCH - a robotic mirror therapy system for hand rehabilitation**
ARIKAN K. B. , Golmohammadzadeh H., CENGİZ B., TURGUT A. E. , ZİNNUROĞLU M., GÜNENDİ Z.
11th Fens Forum of Neuroscience, Berlin, Germany, 7 - 11 July 2018
20. **Passive torque estimation using exopinck - a hand exoskeleton for robotic mirror therapy.**
rahimi s., golmohammadzadeh h., ZİNNUROĞLU M., GÜNENDİ Z., CENGİZ B., TURGUT A. E. , ARIKAN K. B.
1st International Conference on Robotic Technology and Rehabilitation (ICRAR 2018), 9 - 11 April 2018
21. **Vision based range and bearing algorithm for robot swarms**
Balanji H. M. , TURGUT A. E.
2018 Türkiye Robotbilim Konferansı (TORK 2018), İstanbul, Turkey, 12 - 14 April 2018, pp.115-116
22. **phi Clust: Pheromone-based Aggregation for Robotic Swarms**

Arvin F., TURGUT A. E. , Krajnik T., Rahimi S., Okay I. E. , Yue S., Watson S., Lennox B.
25th IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Madrid, Spain, 1 - 05 October 2018, pp.4288-4294

23. **Kapalı Bir Alanda Basit Bir İHA ile Keşif Metodu Tasarımı**
Kucuktabak E. B. , Pelit M. M. , Orhan Z. O. , TURGUT A. E.
TOK 2017, Turkey, 21 - 23 September 2017, pp.661-666
24. **Sürü Robotları için Görüntü Tabanlı Mesafe, Açık ve Yönelim Sistemi Tasarımı**
Balanji H., Yılmaz E., Cakmak O., TURGUT A. E.
TOK 2017, Turkey, 21 - 23 September 2017, pp.386-391
25. **Otonom Quadrotor Sürüleri için Orantısız Navigasyon Tabanlı Merkezi Olmayan Toplu Hareket Algoritması**
Altintas O. H. , Marangalou K., TURGUT A. E.
TOK 2017, Turkey, 21 - 23 September 2017, pp.697-702
26. **Yeni Bir Savunma Konsepti olarak Sürü İHA Sistemleri**
ŞAHİN E., ARIKAN K. B. , hacıoğlu a., ÜRE N. K. , aslan m., TURGUT A. E. , erdener a.
Otomatik Kontrol Ulusal Toplantısı, TOK 2017, Turkey, 21 - 23 September 2017, pp.709-713
27. **Design of a Novel Foldable Flapping Wing Micro Air Vehicle**
Beker C., Arıkan K. B. , Turgut A. E. , Özcan O., Kurtuluş D. F.
Ankara International Aerospace conference, Ankara, Turkey, 20 - 22 September 2017
28. **El için Robotik Ayna Terapi Sisteminin Geliştirilmesi**
Golmohammadzadeh H., Bayer G., Ceylan I., GÜNENDİ Z., ZİNNUROĞLU M., CENGİZ B., TURGUT A. E. , ARIKAN K. B.
TOK 2017, Turkey, 21 - 23 September 2017, pp.490-495
29. **Kobot: Mobile robot platform designed for swarm robotics research.**
Çamdere S. C. , TURGUT A. E. , TAŞCIOĞLU Y.
ICMAE 2017, 8th International Conference on Mechanical and Aerospace Engineering, Prag, Czech Republic, 22 - 25 July 2017
30. **Monoton Uyarı Sırasında EEG (Mü) Ritim Desenkronizasyonu.**
Bayer G., Golmohammadzadeh H., VURALLI D., ZİNNUROĞLU M., GÜNENDİ Z., TURGUT A. E. , ARIKAN K. B. , Kutsal T.
33. Ulusal Klinik Nörofizyoloji EEG-EMG Kongresi, Turkey, 22 - 26 April 2017
31. **Okul Öncesi Eğitim için Mekatronik Sistem Tasarımı**
Mengü B. D. , TURGUT A. E.
Türkiye Robotik Bilim Konferansı TORİK 2016, İstanbul, Turkey, 02 November 2016
32. **Design of a Micro Piezo Actuated Gripper for a Swarm Robotic System**
Kaygusuz B., TURGUT A. E.
13th International Conference on Informatics in Control, Automation and Robotics (ICINCO), Lisbon, Portugal, 29 - 31 July 2016, pp.534-539
33. **Design of active disturbance rejection based controller for a mobile assembly positioner**
ŞEN F. N. , Turan E., Çetin B., ARIKAN K. B. , TURGUT A. E. , BARANOĞLU B.
17th International Conference on Machine Design and Production, Bursa, Turkey, 12 - 15 July 2016, pp.729-739
34. **Boş Boş İzlemekle Yaşayarak İzlemek Arasındaki Fark**
CENGİZ B., ZİNNUROĞLU M., Golmohammadzadeh H., Bayer G., İRFANOĞLU B., TURGUT A. E. , ARIKAN K. B.
32. Ulusal Klinik Nörofizyoloji EEG-EMG Kongresi, Bodrum, Turkey, 27 April 2016
35. **Environmental factors promoting the evolution of recruitment strategies in swarms of foraging robots**
van Essche S., Ferrante E., TURGUT A. E. , Lon R., Holvoet T., Wenseleers T.
SWARM 2015: THE FIRST INTERNATIONAL SYMPOSIUM ON SWARM BEHAVIOR AND BIO-INSPIRED ROBOTICS, Pekin, China, 28 - 30 October 2015
36. **COS-Pi: Artificial pheromone system for robotic swarms research**
Arvin F., Krajnik T., TURGUT A. E. , Yue S.
2015 IEEE/RSJ INTERNATIONAL CONFERENCE ON INTELLIGENT ROBOTS AND SYSTEMS (IROS), Hamburg,

Germany, 28 September - 02 October 2015, pp.407-412

37. **Power-Law Distribution of Long-Term Experimental Data in Swarm Robotics**
Arvin F., Attar A., TURGUT A. E. , Yue S.
ICSI 2015: Advances in Swarm and Computational Intelligence, Pekin, China, 25 June 2015, vol.9140, pp.551-559
38. **COSΦ: Vision-based Artificial Pheromone System for Robotic Swarms**
Krajník T., Arvin F., TURGUT A. E. , Yue S., Duckett T.
IEEE International Conference on Robotics and Automation (ICRA 2015), Seattle, United States Of America, 26 May 2015
39. **Comparison of Different Cue based Swarm Aggregation Strategies**
Farshad A., TURGUT A. E. , Nicola B., Yue S.
5th International Conference on Swarm Intelligence, 17 - 19 October 2014
40. **Scale-free correlations in collective motion with position-based interactions**
Ferrante E., TURGUT A. E. , Wenseleers T., Huepe C.
14. Artificial Life Conference ALIFE2014, New York, United States Of America, 30 July - 02 August 2014
41. **Evolution of task partitioning in swarm robotics**
Ferrante E., Duenez-Guzman E., TURGUT A. E. , Wenseleers T.
Workshop on Collective Behaviors and Social Dynamics of the European Conference on Artificial Life (ECAL 2013), Taormina, Italy, 02 September 2013
42. **GESwarm Grammatical Evolution for the Automatic Synthesis of Collective Behaviors in Swarm Robotics**
Ferrante E., TURGUT A. E. , DuenezGuzman E., Wenseleers T.
GECCO 2013, 6 - 10 July 2013
43. **Self-organized flocking with conflicting goal directions**
Ferrante E., Sun W., Turgut A. E. , Dorigo M., Birattari M., Wenseleers T.
European Conference on Complex Systems 2012, Brussels, Belgium, 2 - 07 September 2012, pp.607-613
44. **Explicit and Implicit Directional Information Transfer in Collective Motion**
Ferrante E., TURGUT A. E. , Huepe C., Birattari M., Dorigo M., Wenseleers T.
The 13th International Conference on the Simulation and Synthesis of Living Systems. ALIFE 13, East Lansing, United States Of America, 19 July 2012
45. **Collective motion in active solids and active crystals**
Huepe C., Ferrante E., TURGUT A. E.
APS March Meeting 2012, Boston, United States Of America, 27 February - 02 March 2012
46. **Fuzzy-Based Aggregation with a Mobile Robot Swarm**
Arvin F., TURGUT A. E. , Yue S.
8th International Conference on Swarm Intelligence, Brussels, Belgium, 12 - 14 September 2012, vol.7461, pp.346-347
47. **Self-Organized Flocking with a Heterogeneous Mobile Robot Swarm**
Stranieri A., Ferrante E., TURGUT A. E. , Trianni V., Pincioli C., Birattari M., Dorigo M.
The 11th European Conference on Artificial Life. ECAL 2011, Paris, France, 8 - 12 August 2011
48. **Flocking in Stationary and Non-stationary Environments: A Novel Communication Strategy for Heading Alignment**
Ferrante E., TURGUT A. E. , Mathews N., Birattari M., Dorigo M.
11th International Conference on Parallel Problem Solving from Nature, Krakow, Poland, 11 - 15 September 2010, vol.6239, pp.331-340
49. **Guiding a Robot Flock via Informed Robots**
Celikkanat H., TURGUT A. E. , ŞAHİN E.
9th International Symposium on Distributed Autonomous Robotic Systems (DARS 9), Tsukuba City, Japan, 17 - 19 November 2008, pp.215-225
50. **Modeling Phase Transition in Self-organized Mobile Robot Flocks**
TURGUT A. E. , Huepe C., Celikkanat H., Gokce F., ŞAHİN E.
6th Biannual International Conference on Ant Colony Optimization and Swarm Intelligence, Brussels, Belgium, 22 -

24 September 2008, vol.5217, pp.108-119

51. **Self-organized flocking with a mobile robot swarm**

TURGUT A. E. , Çelikkanat H., Gökçe F., Şahin E.

7th International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS 2008, Estoril, Portugal, 12 - 16 May 2008, vol.1, pp.40-47

52. **Dispersion of a swarm of robots based on realistic wireless intensity signals**

Ugur E., TURGUT A. E. , ŞAHİN E.

22nd International Symposium on Computer and Information Sciences, Ankara, Turkey, 7 - 09 November 2007, pp.419-424

53. **Kobot: Sürü Robot Çalışmaları için Tasarlanmış Gezgin Robot Platformu**

TURGUT A. E. , GÖKÇE F., ÇELİKKANAT H., BAYINDIR L., ŞAHİN E.

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MECHATRONIC COMPON.AND INSTRUMENT, Undergraduate, 2015 - 2016, 2016 - 2017, 2018 - 2019, 2020 - 2021

INTRODUCTION TO MECHANICAL ENGINEERING, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020

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Robotics, Mechatronics, Modeling and Simulation of Dynamic Systems