

## Prof. Veysel GAZI

### Personal Information

**Office Phone:** [+90 212 383 5959](tel:+902123835959)

**Fax Phone:** [+90 212 383 5959](tel:+902123835959)

**Email:** [vgazi@yildiz.edu.tr](mailto:vgazi@yildiz.edu.tr)

**Web:** <https://avesis.yildiz.edu.tr/vgazi>

### International Researcher IDs

ScholarID: vCPcyo0AAAAJ

ORCID: 0000-0002-4383-9215

Publons / Web Of Science ResearcherID: M-6100-2013

ScopusID: 6701729398

Yoksis Researcher ID: 9643

### Research Areas

Control and System Engineering, Robotics and Mechatronics Systems

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Design, modelling and control of a textile-based wearable actuating system with sensor feedback for therapeutic applications**  
ÇELEBİ M. F., Tunçay Atalay A., Atalay Ö., GAZI V.  
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- II. **Swarm Trajectories Generation for Target Capturing With Uncertain Information**  
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- III. **Target Capturing in an Ellipsoidal Region with a Swarm of Quadcopter Agents with Different Social Value Orientation Parameters**  
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- IV. **Online and Real-Time Trajectory Generation Method for Unforeseen Events Using a Modified Spline Approach**  
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- V. **Distributed sensor deployment using potential fields**  
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- VI. **Implementation Studies of Robot Swarm Navigation Using Potential Functions and Panel Methods**  
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- VII. **Experimental studies on chemical concentration map building by a multi-robot system using bio-inspired algorithms**  
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- VIII. **Single-View Distance-Estimation-Based Formation Control of Robotic Swarms**  
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- IX. **On Lagrangian dynamics based modeling of swarm behavior**  
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- X. **A Target Tracking Approach for Nonholonomic Agents Based on Artificial Potentials and Sliding Mode Control**  
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- XI. **Swarm Stability and Optimization**  
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SWARM STABILITY AND OPTIMIZATION, pp.3-283, 2011 (SCI-Expanded)
- XII. **Experimental study on the effects of communication on cooperative search in complex environments**  
Cayirpunar O., Gazi V., Tavli B., Cervera E., Witkowski U., Penders J.  
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- XIII. **Asynchronous particle swarm optimization-based search with a multi-robot system: simulation and implementation on a real robotic system**  
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- XIV. **Laser based cooperative multi-robot map building for indoor environments**  
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- XV. **Adaptive internal model based formation control of a class of multi-agent systems**  
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- XVI. **Adaptive formation control and target tracking in a class of multi-agent systems**  
Duran S., Gazi V.  
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- XVII. **Comparison of three orientation agreement strategies in self-propelled particle systems with turn angle restrictions in synchronous and asynchronous settings**  
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- XVIII. **Stability of an asynchronous swarm with time-dependent communication links**  
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- XX. **Aggregation, foraging, and formation control of swarms with non-holonomic agents using potential functions and sliding mode techniques**  
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- XXI. **Target tracking using artificial potentials and sliding mode control**  
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- XXII. **Output regulation of a class of linear systems with switched exosystems**  
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- XXIII. **Decentralized output regulation of a class of nonlinear systems**  
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- XXIV. **Asynchronous cyclic pursuit**  
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- XXV. **Swarm aggregations using artificial potentials and sliding-mode control**  
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- XXVI. **Stability of a one-dimensional discrete-time asynchronous swarm**  
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- XXVII. **Formation control of a multi-agent system using non-linear servomechanism**  
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- XXVIII. **A class of attractions/repulsion functions for stable swarm aggregations**  
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- XXIX. **Stability analysis of social foraging swarms**  
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- XXXI. **Complex control system design and implementation - Using the NIST-RCS software library**  
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- I. **A Plug & Play Command Generator for Swarm Formation on Multiple Arbitrary Shaped Orbits: a Diffeomorphism-based approach**  
Bono A., D'Alfonso L., Fedele G., GAZI V.  
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## Papers Published in Refereed Scientific Meetings

- I. **Textile-Based Thermally Driven Actuators for Soft Robotic Mechanotherapy Applications\***  
ÇELEBİ M. F., Beler Z., Dede E., KOÇAK E. D., Atalay Ö., TUNÇAY ATALAY A., GAZI V.  
8th International Conference on Control, Decision and Information Technologies (CoDIT), İstanbul, Turkey, 17 - 20 May 2022, pp.1303-1308
- II. **Target Capturing in an Ellipsoidal Region with a Swarm of Quadrotor UAVs**  
Merzi M. A., GAZI V., Fedele G., D'Alfonso L., Bono A.

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- III. **A Swarm Model for Target Capturing in a Polygonal Strip**  
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- IV. **Modelling and Coordination of a Swarm of Quadrotors Using Lagrange Dynamics and Potential Functions**  
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- V. **Decentralized Formation Control of a Swarm of Quadrotor Helicopters**  
Toksoz M. A., Oguz S., Gazi V.  
IEEE 15th International Conference on Control and Automation (ICCA), Edinburgh, Saint Helena, 16 - 19 July 2019, pp.1006-1013
- VI. **Chemical concentration map building using whale optimization algorithm**  
Merzi A., Gazi V.  
2017 IEEE Symposium Series on Computational Intelligence, SSCI 2017, Hawaii, United States Of America, 27 November - 01 December 2017, vol.2018-January, pp.1-8
- VII. **Particle swarm optimization based distributed agreement in multi-agent dynamic systems**  
Gazi V., Ordonez R.  
2014 IEEE Symposium on Swarm Intelligence, SIS 2014, Florida, United States Of America, 9 - 12 December 2014, pp.174-180
- VIII. **Sensor coverage maximization with potential fields**  
Hanay Y. S., Gazi V.  
19th IEEE Symposium on Computers and Communications, ISCC 2014, Funchal, Portugal, 23 - 26 June 2014
- IX. **Satellite formation flying: Robust algorithms for propulsion, path planning and control**  
Saaj C., Lappas V., Richie D., Gazi V., Schaub H.  
2009 10th European Control Conference, ECC 2009, Budapest, Hungary, 23 - 26 August 2009, pp.2456-2463
- X. **Distributed Output Agreement in a Class of Uncertain Linear Heterogeneous Multi-Agent Dynamic Systems**  
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- XI. **Indirect adaptive formation control with nonlinear dynamics and parametric uncertainty**  
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2013 9th Asian Control Conference, ASCC 2013, İstanbul, Turkey, 23 - 26 June 2013
- XII. **Distributed adaptive output agreement in a class of multi-agent systems**  
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- XIII. **Stable Adaptive Particle Swarm Optimization**  
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- XIV. **Adaptive Formation Control and Target Tracking in a Class of Multi-Agent Systems: Formation Maneuvers**  
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- XV. **Virtual Cancellation Plume for Multiple Odor Source Localization**  
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- XVI. **Stochastic Stability Analysis of the Particle Dynamics in the PSO Algorithm**  
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- XVII. **Adaptive Internal Model Based Formation Control of a Class of Multi-Agent Systems with Switched Exosystems**  
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- XVIII. **Cooperative chemical concentration map building using decentralized asynchronous particle swarm optimization based search by mobile robots**  
Turduev M., Atas Y., Sousa P., Gazi V., Marques L.  
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- XX. **Experimental study of robot formation control and navigation using potential functions and panel method**  
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- XXI. **Chemical Concentration Map Building Through Bacterial Foraging Optimization Based Search Algorithm by Mobile Robots**  
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- XXII. **Target tracking using adaptive gain backstepping control**  
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- XXIII. **Design of circling around a target controllers for mobile robots by feedback linearization**  
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- XXIV. **Experimental study on the effects of communication range on cooperative robotic search in complex environments**  
Çaylırpınar Ö., Gazi V., Tavli B., Cervera E., Witkowski U., Penders J.  
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- XXV. **Particle swarm optimization with dynamic neighborhood topology: Three neighborhood strategies and preliminary results**  
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- XXVI. **Decentralized asynchronous particle swarm optimization**  
Burak Akat S., Gazi V.  
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- XXVII. **A synergetic approach for developing practical multi-robot applications**

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- XXVIII. **Single view depth estimation based formation control of robotic swarms: Obstacle avoidance, simulation, and practical issues**  
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- XXIX. **Tracking a maneuvering target with a non-holonomic agent using artificial potentials and sliding mode control**  
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- XXXII. **Agent Standard Protocols for Building Multi-Robot Applications**  
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- XXXIII. **Agents at Play: Off-the-shelf Software for Practical Multi-robot Applications**  
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- XXXIX. **Spacecraft swarm navigation and control using artificial potential field and sliding mode control**  
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- XL. **Asynchronous cyclic pursuit**  
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- XLI. Swarm tracking using artificial potentials and sliding mode control**  
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- XLII. Effects of asynchronism and neighborhood size on clustering in self-propelled particle systems**  
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- XLIII. Target tracking using artificial potentials and sliding mode control**  
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- XLIV. Swarm Aggregations Using Artificial Potentials and Sliding Mode Control**  
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- XLV. Formation Control of a Multi-Agent System Using Decentralized Nonlinear Servomechanism**  
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- XLVI. A class of attraction/repulsion functions for stable swarm aggregations**  
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- XLVII. Stability analysis of social foraging swarms: Combined effects of attractant/repellent profiles**  
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- XLVIII. Stability analysis of swarms**  
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- XLIX. Stability analysis of swarms in an environment with an Attractant/Repellent profile**  
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- L. Decentralized regulation of a class of nonlinear systems**  
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- LI. Stability of a one-dimensional discrete-time asynchronous swarm**  
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- LII. Adaptive control of discrete time nonlinear systems using dynamic structure approximators**  
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- LIII. Direct adaptive control using dynamic structure fuzzy systems**  
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**LIV. Real-time control system software for intelligent system development: Experiments and an educational program**

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## **Metrics**

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