



IYTE Mimarlık Bölümü
MIAK Ulusal Akreditasyon Başvurusu 2020
Öğretim Elemanlarının Özgeçmişleri

EK 1.

1. Name, Surname, Title : Asst. Prof. Dr. Berk Ekici



2. Education Credentials :

Degree	Department	University	Year
B. Arch.	Architecture	Yaşar University	2006-2011
M. Sc.	Architecture	Yaşar University	2011-2014
Ph.D.	Architectural Engineering + Technology	TU Delft	2016-2022

3. Academic Experience :

Title	Department	University/Place	Year
Asst. Prof.	Architecture	İzmir Institute of Technology / TR	2023-Present
Adj. Inst.	Architectural Engineering + Technology	TU Delft / NL	2019-2021
Adj. Inst.	Architecture	Yaşar University / TR	2019-2019
Res. Asst.	Architecture	Yaşar University / TR	2011-2019

4. Areas of Expertise in Architecture

- A. Computational design
- B. Performance based design
- C. Heuristic optimization in architecture
- D. Machine learning in building performance prediction

5. Courses Taught (Last Two Years)

Academic Year	Semester	Code	Name of Course	Weekly Hours		Num. of Students
				(T)	(A)	
2024	Spring	AR 302	Architectural Design IV	4	8	20
2025		AR 692	Machine Learning for Building Performance Prediction	3	0	13
2024	Fall	AR 301	Architectural Design III	4	8	22
2025		AR 596	Heuristic Optimization in Performative Computational Architecture	3	0	18
2023 2024	Spring	AR 302	Architectural Design IV (Integrated to AR 396)	4	8	10
		AR 396	Introduction to Performative Computational Architecture	3	0	10
		AR 692	Machine Learning for Building Performance Prediction	3	0	14
2023 2024	Fall	AR 301	Architectural Design III (Integrated to AR 396)	4	8	18
		AR 396	Introduction to Performative Computational Architecture	3	0	28
		AR 449	Supplementary Curricular Courses	3	0	4
		AR 596	Heuristic Optimization in Performative Computational Architecture	3	0	14



6. Supervised Graduate Theses / Dissertations

6.1. Masters (Completed)

- 1) MORA, F. F. "Humble giants: Computational intelligence for designing more sustainable high-rise buildings"
TU Delft Department of Architectural Engineering and Technology, 2020 (Co-advisor) [Thesis link](#)
- 2) AVCI, P. "Targeting Energy Efficiency and Visual Comfort for University Campus Buildings: A Comparative Study of Adaptive and Non-adaptive Shading Device Optimization"
IZTECH Department of Architecture, 2025 (Advisor)
- 3) GÜLDİLEK, M. "Human Centric AI for Floor Plan Generation: Combining GANs with RL for Single-storey House Design"
IZTECH Department of Architecture, 2025 (Co-advisor)

6.2. Masters (Ongoing)

- 4) AK, F. "Seismic Risk Evaluation for Earthquake Resistant Buildings using Neural Networks"
IZTECH Department of Architecture (Co-advisor)
- 5) DAĞLIER, Y. "Design of Adaptive Treelike Shading Device with Rigid Origami Technique: Minimizing the Urban Heat Island Effect in IZTECH Campus"
IZTECH Department of Architecture (Advisor)
- 6) BAYRAKTAR, A. "Kinetic Façade Design for Residential Buildings: Improving Thermal Comfort with Artificial Intelligence"
IZTECH Department of Architecture (Advisor)
- 7) MERÇ, K.E. "Retrofitting Residential Buildings for Energy Efficiency in Mediterranean Climates: Optimized Modular Façades with PV Panels, Shadings, and Vertical Green Walls"
IZTECH Department of Architecture (Advisor)
- 8) BÜYÜK, F. "Improving Thermal Performance of University Campus Buildings with Insulation Panels Produced from Agricultural Wastes using Machine Learning"
IZTECH Department of Architecture (Advisor)
- 9) GÜNGÖR, S.S. "Enhancing visual comfort and energy efficiency in smart houses using Artificial Intelligence"
IZTECH Department of Architecture (Advisor)
- 10) DURMUŞOĞLU, B. "Optimizing Environmental Conditions of Buildings for Resilient Neighborhoods: A Computational Framework"
IZTECH Department of Architecture (Advisor)
- 11) ŞAHİN, A. "Optimizing Vegetation and Courtyard Configuration with Machine Learning To Improve Microclimate Performance"
IZTECH Department of Architecture (Advisor)
- 12) ÖZTÜRK, Z. "Accepted to the MSc Program"
IZTECH Department of Architecture (Advisor)
- 13) AKÇAYOĞLU, N. "Accepted to the MSc Program"
IZTECH Department of Architecture (Advisor)
- 14) SAYKAL, M. C. "Accepted to the MSc Program"
IZTECH Department of Architecture (Advisor)



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6.3. PhDs (Completed)

15) ÜNLÜTÜRK, M. S. “A Proposal for A Double Skin Façade Model with Optimum Daylight Performance in Future Weather Scenarios: Mediterranean Climate Type”
IZTECH Department of Architecture, 2025 (Co-advisor)

6.4. PhDs (Ongoing)

16) YÖNEY, E.G. “Predicting the Indoor Environmental Quality with Machine Learning for Improving Productivity of The Occupants In Energy-Efficient Office Spaces”
IZTECH Department of Architecture (Advisor)

17) ÇOĞUL, İ. “Daylight Availability and Quality in Sustainable Neighborhoods in terms of Visual Comfort, Occupant Wellness, and Solar Energy Generation”
IZTECH Department of Architecture (Co-advisor)

18) AVCI, P. “Accepted to the PhD program”
IZTECH Department of Architecture (Advisor)

7. Publications

7.1. Articles published in international referred journals (SCI, SSCI, Arts and Humanities, Area Indexed)

- 1) M.S. Ünlütürk, Z.T. Kazanasmaz, **B. Ekici**, T.G. Özbalta, “A computational framework for optimizing daylight performance of double skin façades in educational buildings: Case of Mediterranean climate”, Light and Engineering, Vol 34, No 1, 2025 (*In press*).
- 2) İ. Çoğul, Z.T. Kazanasmaz, **B. Ekici**, “A literature review on sustainable buildings and neighborhoods in terms of daylight, solar energy and human factors”, Journal of Building Engineering 103, 111989, 2025. [Paper link](#)
- 3) P. Avcı, **B. Ekici**, Z.T. Kazanasmaz, “A review on adaptive and non-adaptive shading devices for sustainable buildings”, Journal of Building Engineering 100, 111701, 2025. [Paper link](#)
- 4) **B. Ekici**, O. F. S. F. Turkcan, M. Turrin, İ. S. Sariyildiz, M. F. Tasgetiren, “Optimising high-rise buildings for self-sufficiency in energy consumption and food production using artificial intelligence: Case of Europoint complex in Rotterdam”, Energies, 2022, 15(2): 660. [Paper link](#)
- 5) **B. Ekici**, Z. T. Kazanasmaz, M. Turrin, M. F. Tasgetiren, İ. S. Sariyildiz, “Multi-zone optimisation of high-rise buildings using artificial intelligence for sustainable metropolises. Part 1: Background, methodology, setup, and machine learning results”, Solar Energy, 224, 373-389. [Paper link](#)
- 6) **B. Ekici**, Z. T. Kazanasmaz, M. Turrin, M. F. Tasgetiren, İ. S. Sariyildiz, “Multi-zone optimisation of high-rise buildings using artificial intelligence for sustainable metropolises. Part 2: Optimisation problems, algorithms, results, and method validation”, Solar Energy, 224: 309-326. [Paper link](#)
- 7) A. Kirmat, O. Krejcar, **B. Ekici**, M. F. Tasgetiren, “Multi-objective energy and daylight optimization of amorphous shading devices in buildings”, Solar Energy, 2019, 185: 100-111. [Paper link](#)
- 8) **B. Ekici**, C. Cubukcuoglu, M. Turrin, İ. S. Sariyildiz, “Performative computational architecture using swarm and evolutionary optimisation: A review”, Building & Environment, 2019, 147: 356-371. [Paper link](#)

7.2. Articles published in other international refereed journals

- 9) C. Cubukcuoglu, **B. Ekici**, M. F. Tasgetiren, İ. S. Sariyildiz, “OPTIMUS: Self-adaptive differential evolution with ensemble of mutation strategies for grasshopper algorithmic modeling”, Algorithms, 2019, 12(7): 141. [Paper link](#)



7.3. Papers presented in international conferences and published as proceedings

- 10) **B. Ekici** “A General Predictive Model to Evaluate Daylight Levels of Residential Buildings in the Mediterranean (Next Med) Region”, 43rd Education and Research in Computer Aided Architectural Design in Europe (eCAADe) Conference 2025, Ankara (Accepted for oral presentation).
- 11) Y. Dağlier, **B. Ekici**, K. Korkmaz “Developing Machine Learning Models to Predict Outdoor Thermal Comfort of Kinetic Shading Devices: An Approach for Global Optimization”, 43rd Education and Research in Computer Aided Architectural Design in Europe (eCAADe) Conference 2025, Ankara (Accepted for oral presentation).
- 12) M. Güldilek, M.E. İlal, **B. Ekici**, “Combining Generative Adversarial Networks and Reinforcement Learning for Floor Plan Layout Generation”, 43rd Education and Research in Computer Aided Architectural Design in Europe (eCAADe) Conference 2025, Ankara (Accepted for oral presentation).
- 13) M.S. Ünlütürk, Z.T. Kazanasmaz, **B. Ekici**, T.G. Özbalta, “Material Optimization for Future Double Skin Facade System Design”, CISBAT 2025, Lausanne. (Accepted for poster presentation).
- 14) Y. Dağlier, **B. Ekici**, K. Korkmaz, “Design of Adaptive Shading Device with Rigid Origami Technique: Improving Outdoor Thermal Comfort on Pathways of University Campus”, CISBAT 2025, Lausanne. (Accepted for poster presentation).
- 15) M. Güldilek, M.E. İlal, **B. Ekici**, “Bridging GANs and Reinforcement Learning: Proximal Policy Optimization for Enhanced Design Outputs”, 7th International Conference on Computational Design and Robotic Fabrication 2025.
- 16) P. Avci, **B. Ekici**, Z. Kazanasmaz, “Optimizing Integrated Shading Device and Light Shelf for Daylight Performance and Visual Comfort in Architecture Studio”, 24th IEEE International Conference on Environment and Electrical Engineering, 2024, Rome. [Paper link](#)
- 17) P. Avci, Z. Kazanasmaz, **B. Ekici**, “Controlling Daylight Penetration and Artificial Light In IZTECH Library Reading Rooms”, Current Issues in Interiors [CII] Symposium, 2024, İzmir. (Full paper presentation). [Paper link](#)
- 18) **B. Ekici**, Z. T. Kazanasmaz, M. Turrin, M. F. Tasgetiren, I. S. Sariyildiz, “A Methodology for daylight optimisation of high-rise buildings in the dense urban district using overhang length and glazing type variables with surrogate modelling”, Journal of Physics: Conference Series 1343 (1), 012133, CISBAT 2019, Lausanne. (Poster presentation). [Paper link](#) – [Poster link](#)
- 19) N. P. Unlu, **B. Ekici**, I. Chatzikonstantinou, I. S. Sariyildiz, M. F. Tasgetiren, C. Cubukcuoglu, “Diagrid façade design for public pool building using differential evolution”, Twelfth international tools and methods of competitive engineering symposium, 2018, Las Palmas de Gran Canaria, 265-274. (Full paper presentation). [Paper link](#)
- 20) E. Yildirim, **B. Ekici**, C. Cubukcuoglu, I. Chatzikonstantinou, I. S. Sariyildiz, A. H. L. Chen, “Optimization of free form long span roof structure for pool facility using evolutionary algorithms”, International symposium for production research 2017, Wien, 891-902. (Full paper presentation).
- 21) M. Paldrak, C. Cubukcuoglu, **B. Ekici**, M. F. Tasgetiren, A. Cilasun Kunduraci, “Diagrid and honeycomb façade design optimization with multi-objective evolutionary algorithms”, International symposium for production research 2017, Wien, 555-567. (Full paper presentation).
- 22) G. Yavuzarslan, **B. Ekici**, C. Cubukcuoglu, A. Cilasun Kunduraci, B. Kundakci Koyunbaba, “Envelope design of healthcare public space using multi-objective optimization”, International symposium for production research 2017, Wien, 867-880. (Full paper presentation).
- 23) N. P. Unlu, M. F. Tasgetiren, **B. Ekici**, C. Cubukcuoglu, I. Chatzikonstantinou, “Structure optimization of shelter design for semi-closed public space in urban”, International symposium for production research 2017, Wien, 811-823. (Full paper presentation).
- 24) F. Ozbey, C. Cubukcuoglu, **B. Ekici**, A. Cilasun Kunduraci, I. Chatzikonstantinou, “Bi-objective visual perception optimization for a healthcare education facility”, International symposium for production research 2017, Wien, 511-520. (Full paper presentation).



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- 25) A. O. Gorgun, C. Cubukcuoglu, **B. Ekici**, B. Kundakci Koyunbaba, I. Kahraman, “Diagrid façade design using multi-objective evolutionary algorithms”, International symposium for production research 2017, Wien, 331-344. (Full paper presentation).
- 26) B. Yildiz, **B. Ekici**, I. Chatzikonstantinou, S. Kutucu, I. S. Sariyildiz, “Visual perception based multi- objective optimization to housing design in urban context”, International symposium for production research 2017, Wien, 903-914. (Full paper presentation).
- 27) S. Karaman, **B. Ekici**, C. Cubukcuoglu, B. Kundakci Koyunbaba, I. Kahraman, “Design of rectangular façade modules through computational intelligence: Case of common space in healthcare building”, IEEE congress on evolutionary computation 2017, San Sebastian, 1021-1028. (Full paper presentation). [Paper link](#)
- 28) M. Yufka, **B. Ekici**, C. Cubukcuoglu, I. Chatzikonstantinou, I. S. Sariyildiz, “Multi-objective skylight optimization for a healthcare facility foyer space”, IEEE congress on evolutionary computation 2017, San Sebastian, 1008-1014. (Full paper presentation). [Paper link](#)
- 29) E. E. Aydin, O. Dursun, I. Chatzikonstantinou, **B. Ekici**, “Optimisation of energy consumption and daylighting using building performance surrogate model”, 49th international conference of the architectural science association 2015, Melbourne, 536-546. (Full paper presentation). [Paper link](#)
- 30) I. Chatzikonstantinou, **B. Ekici**, I. S. Sariyildiz, B. Kundakci Koyunbaba, “Multi-objective diagrid façade optimization using differential evolution”. IEEE congress on evolutionary computation 2015, Sendai, 2311-2318. (Full paper presentation). [Paper link](#)
- 31) O. Dursun, **B. Ekici**, I. S. Sariyildiz, “Time-cost optimization at the conceptual design stage using differential evolution: Case of single-family housing projects in Germany”, IEEE congress on evolutionary computation 2015, Sendai, 2237-2244. (Full paper presentation). [Paper link](#)
- 32) **B. Ekici**, S. Kutucu, I. S. Sariyildiz, M. F. Tasgetiren, “Addressing the high-rise form finding problem by evolutionary computation”, IEEE congress on evolutionary computation 2015, Sendai, 2253- 2260. (Full paper oral presentation). [Paper link](#)
- 33) E. Kurtbas, C. Cubukcuoglu, **B. Ekici**, A. Cilasun Kunduraci, I. Kahraman, “Addressing a façade design for healthcare facility using multi-objective optimization”, International symposium for production research 2017, Wien, 481-494. (Presented by Prof. Dr. M. Fatih Tasgetiren).
- 34) **B. Ekici**, I. Chatzikonstantinou, I. S. Sariyildiz, M. F. Tasgetiren, Q. K. Pan, “A Multi-objective self- adaptive differential evolution algorithm for conceptual high-rise building design”, IEEE World congress on computational intelligence 2016, Vancouver, 2272-2279. [Paper link](#)
- 35) C. Cubukcuoglu, I. Chatzikonstantinou, **B. Ekici**, I. S. Sariyildiz, M. F. Tasgetiren, “Multi-objective optimization through differential evolution for restaurant design”, IEEE World congress on computational intelligence 2016, Vancouver, 2288-2295. [Paper link](#)

7.4. International books or chapters

- 36) **B. Ekici**, “Towards self-sufficient high-rises: Performance optimization using artificial intelligence”, 2022, Doctoral Dissertation, DOI: 10.7480/abe.2022.10, Publisher: A+BE | Architecture and the Built Environment. [Thesis link](#)
- 37) C. Cubukcuoglu, A. Kirimtut, **B. Ekici**, M. F. Tasgetiren, P. N. Suganthan, “Evolutionary computation for theatre hall acoustics”, Optimization in industry - Present practices and future scopes, 2019, Pp: 55- 83, Publisher: Springer. [Chapter link](#)
- 38) E. Cevizci, S. Kutucu, M. Morales-Beltran, **B. Ekici**, M. F. Tasgetiren, “Structural optimization for masonry shell design using multi-objective evolutionary algorithms”, Optimization in industry - Present practices and future scopes, 2019, Pp:85-119, Publisher: Springer. [Chapter link](#)



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39) A. Kirimtat, **B. Ekici**, C. Cubukcuoglu, I. S. Sariyildiz, M. F. Tasgetiren, “Evolutionary algorithms for designing self-sufficient floating neighborhoods”, Optimization in industry - Present practices and future scopes, 2019, Pp: 121-147
Publisher: Springer. [Chapter link](#)

7.5. Articles published in national refereed journals

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7.6. Papers presented in national conferences and published as proceedings

40) M. Güldilek, M.E. İlal, **B. Ekici**, “Tek Katlı Plan Organizasyonlarında Çekişmeli Üretici Ağlar Ve Pekiştirmeli Öğrenmenin Entegrasyonu: Kullanıcı Merkezli Ödül Fonksiyonları (Integrating Generative Adversarial Networks and Reinforcement Learning in Single-Level Plan Organizations: User-Centered Reward Functions)”, 19. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu 2025, Antalya. (Full paper oral presentation – In press)

41) S.S. Güngör, **B. Ekici**, Z.T. Kazanasmaz, “Ofislerde Gün Işığının Aydınlik Düzeyi ve Kamaşmaya Göre Çok Amaçlı Optimizasyonu: Grasshopper ve Relux Analizlerinin Değerlendirilmesi”, AYSEM 12. Ulusal Aydınlatma Sempozyumu 2025, İzmir. (Accepted for oral presentation)

42) M.S. Ünlütürk, Z.T. Kazanasmaz, **B. Ekici**, T.G. Özbalt, “İklim Krizi Etkisinde Çift Cidarlı Cephelerin Gün Işığı Performansı: Akdeniz İklimi Örneği”, AYSEM 12. Ulusal Aydınlatma Sempozyumu 2025, İzmir. (Accepted for oral presentation)

43) M. Güldilek, M.E. İlal, **B. Ekici**, “Tek Katlı Yapılar için Çekişmeli Üretici Ağlarda Ölçeklendirme ve Kontrol Yöntemleri (Scale and Control Methods in Generative Adversarial Networks for Single-Story Houses)”, 18. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu 2024, Balıkesir, 657-678. (Full paper oral presentation)

44) **B. Ekici** “Kompleks Cephe Tasarımlarında Makine Öğrenme Eğrileri: Tahminleme Modelleri Doğru Optimizasyonu Beraberinde Getiriyor Mu? (Machine Learning Curves in Complex Façade Designs: Do Predictive Models Bring Along the Correct Optimization?)”, 17. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu 2023, İstanbul, 1-21. (Full paper oral presentation)

45) **B. Ekici** and S. Kutucu, “Bilgisayar Destekli Kavramsal Tasarım Yaklaşımı Ve Çoklu Performansa Dayalı Tümüleşik Yüksek Yapılar (Computer Aided Conceptual Design Approach and Multi-Performance Based Integrated High-Rise Buildings)”, 8. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu 2014, İzmir, 85-94. (Full paper oral presentation)

46) **B. Ekici**, and E. Öz Mehmet, “Çok Yönlü Bina Enerji Yazılım Araçlarının Analizi (Analysis of Multi-Purpose Building Energy Software Tools)”, Sürdürülebilir Yapı Tasarımı Kongresi Bildiriler Kitabı 2012, İzmir, 163-176. (Full paper oral presentation)

7.7. National books or chapters

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7.8. Other Publications

47) **B. Ekici**, O.F. S. F. Turkcan, M. Turrin, I. S. Sariyildiz, M. F. Tasgetiren, “Multi-Zone Simulation Results Of Europoint Complex For Self-Sufficiency In Energy Consumption And Food Production In Rotterdam”, TU Delft - 4TU Centre for research data, 2021, <https://doi.org/10.4121/17129420.v1>

48) **B. Ekici**, Z. T. Kazanasmaz, M. Turrin, M. F. Tasgetiren, I. S. Sariyildiz, “Multi-Zone Simulation Results On ASE And Sda Daylight Metrics For Parametric High-Rise Model With Quad Grid And Diagrid Façade In A Highly Dense Hypothetical Urban District Using Dry Summer Climate Weather Data”, TU Delft - 4TU Centre for research data, 2020, <https://doi.org/10.4121/UUID:8538AC2F-3A78-4923-8FCA-5BEB50017299>



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- 49) **B. Ekici**, I. Chatzikonstantinou, S. Sariyildiz, F. Tasgetiren “Kavramsal Yüksek Bina Tasarımı İçin Çok Amaçlı Diferansiyel Evrim Algoritması”, Yöneylem Araştırması Endüstri Mühendisliği 36. Ulusal Kongresi, 2016, Yaşar University - İzmir, pg.68. (Abstract presentation)
- 50) **B. Ekici**, S. Kutucu, S. Sariyildiz, F. Tasgetiren “Evrimsel Hesaplamalar Ile Yüksek Bina Form Bulma Probleminin İrdelenmesi”, Yöneylem Araştırması Endüstri Mühendisliği 35. Ulusal Kongresi, 2015, METU - Ankara, pg.187. (Abstract presentation)
- 51) C. Cubukcuoglu, I. Chatzikonstantinou, **B. Ekici**, M. F. Tasgetiren, S. Sariyildiz “Restoran Tasarımı Optimizasyonu İçin Çok Amaçlı Diferansiyel Evrim Algoritması”, Yöneylem Araştırması Endüstri Mühendisliği 36. Ulusal Kongresi, 2016, Yaşar University - İzmir, pg.69. (Abstract presentation)
- 52) O. Dursun, **B. Ekici**, S. Sariyildiz “Farksal Evrim Algoritması Ile Kavramsal Tasarım Aşamasında Konut Maliyet Ve Süre Optimizasyonu”, Yöneylem Araştırması Endüstri Mühendisliği 35. Ulusal Kongresi, 2015, METU - Ankara, pg.186. (Abstract presentation)

8. Scientific Research Projects

1. Energy efficiency, Renewable Energy Sources and smarT energy conservation for improved quality of life and a GREENER Mediterranean - RESt4GREEN
Approved by Interreg Next-Med (Co-funded by the EU), Role: Researcher
16.07.2025 – 16.07.2028
2. Afetlere Karşı Dirençli Kentler Oluşturmak İçin Çok Disiplinli ve Yenilikçi Tekniklerin Geliştirilmesi
Approved by Araştırma Üniversiteleri Destek Programı (ADEP), Role: Researcher
01.03.2025 – 01.03.2028
3. İzmir’deki Konut Yapıları İçin Enerji Tasarruf Potansiyelini Arttıran Yapay Zeka Destekli Bir Cephe Model Önerisi
Approved by Tübitak (2209-A), Role: Advisor
08.04.2025 – 08.04.2026
4. Terrestrial Laser Scanning Technologies in Cultural Heritage Documentation
Approved by Yaşar University Research Center, Role: Researcher
22.12.2017 – 09.08.2018
5. Designing Asymmetric Shaped Shell System with Aerated Concrete Blocks using Computational Design Techniques
Approved by Yaşar University Research Center, Role: Consultant
22.08.2016 – 01.03.2018
6. An Approach for Energy Efficient Retrofit of Architectural Studio Building in University Campus İzmir (114M803)
Approved by TÜBİTAK (The Scientific and Technological Research Council of Türkiye), Role: Researcher
01.09.2014 – 01.10.2016

9. Administrative Duties

Name of Duty	University	Year
Iztech Fac. of Arch. Technological Infrastructure <i>Commission Member</i>	İzmir Institute of Technology	06.2024 – Present
Distance Education Application and Research Center <i>Administrative Board Member</i>	İzmir Institute of Technology	06.2023 – Present



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Education Directorate <i>Executive Board Member</i>	İzmir Institute of Technology	05.2023 – Present
Education Plan Supportive Field Course <i>Commission Member</i>	İzmir Institute of Technology	05.2023 – Present
HRS4R <i>Supervision WG Member</i>	İzmir Institute of Technology	04.2023 – Present
Iztech Sustainable Green Campus <i>Commission Member</i>	İzmir Institute of Technology	03.2023 – Present

10. Memberships / Fellowships

1. TU Delft for Life, 06.2022 – Present
2. AA Visiting School of Architecture, 2012 – 2013
3. Council on Tall Buildings and Urban Habitat, 2012 – 2013

11. Awards

1. UIDB - Horizon2020 / U2020 - Eşik Üstü Ödülü 123U363, 2023
2. Best junior contribution paper award, 12th international symposium on TMCE, 2018 Las Palmas
3. Travel grant, COST action 1403 adaptive façade network, 2018 Belgrade
4. 5 years of service acknowledgement, Yaşar University, 2017 İzmir
5. Letter of appreciation, Jandarma Genel Komutanlığı/2'nci J. Eğ. B. K., 2015 Kastamonu
6. 3rd honorable mention, Uşak bus terminal complex national competition, 2012 Uşak
7. 4th honorable mention, Manisa municipality building national competition, 2011 Manisa
8. Top student of the department, 2011 Yaşar University
9. Plate, Chamber of Architects İzmir Branch, 2011 İzmir
10. Dean's success award, 2011 Yaşar University
11. High honor award (2 times), 2008 Yaşar University

12. Other (Design, Art, or related Events involved)

A. Guest Editor

AI in Energy Efficient Buildings https://www.mdpi.com/journal/energies/special_issues/29R2U21IQ3

B. Invited Reviewer (Journals)

Taylor & Francis:	Architectural Engineering and Design Management, Building Research and Information, Ambient Energy
Elsevier:	Automation in Construction, Building and Environment, Energy and Buildings, Engineering Applications of Artificial Intelligence, Journal of Building Engineering, Solar Energy, Structures, Applied Energy, Frontiers of Architectural Research, Sustainable Cities and Society
MDPI:	Sustainability, Buildings, Energies



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EK 1.

SAGE:	Simulation
TU Delft OPEN:	Journal of Façade Design and Engineering
Mimarlar Odası İzmir Şubesi:	Ege Mimarlık
Dergi Park:	Journal of Computational Design, Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, Karesi Journal of Architecture

C. Invited Reviewer (Conferences)

Caad Futures 2023 held by TU Delft

D. Organizations

Workshop: Mimarlıkta Yapay Zeka, Balıkesir University Dept. of Arch., 21 April 2025

Workshop: Tasarımda Yapay Zeka (Artificial Intelligence in Design) Kullanıcı Odaklı Mimari Plan Üretimi (with M. Güldilek and M.E. İlal), Digital Futures, 25 – 26 – 27 July 2024 ([Event link](#))

Workshop: Tasarımda Yapay Zeka (Artificial Intelligence in Design) Kullanıcı Odaklı Mimari Plan Üretimi (with M. Güldilek and M.E. İlal), Chamber of Architects İzmir Branch, 18 – 25 - 31 May 2024 ([Event link](#))

Workshop: Seismic Risk Evaluation for Earthquake-Resistant Buildings Using Computational Design and Artificial Intelligence in the Conceptual Phase, CORE Symposium (with F. Ak and U. Demir), İzmir, 04.04.2024 ([Event link](#))

Workshop: Mimarlıkta Yapay Zeka (Artificial Intelligence in Architecture) 2023, Chamber of Architects İzmir Branch ([Event link](#))

Technical committee member: 2016 IEEE world congress on computational intelligence, Vancouver, Canada (www.wcci2016.org). Title: Special session no 36: Evolutionary computation in architectural design

Technical committee member: 2015 IEEE congress on evolutionary computation, Sendai, Japan (www.cec2015.org). Title: Special session no 41: Evolutionary computation in architectural design.

Assisting international symposium organization: 2012 computational design international symposium and workshop (Contributors: Yaşar University, TU Delft, University of Salford, Polytechnic of Turin, İzmir University of Economics).

E. Invited Talks & Lectures

“Mimari Çalışmalarda Yapay Zeka Kullanımı”, Dokuz Eylül University Dept. of Arch., Organised by Assoc. Prof. Dr. Kutluğ Savaşır, 10.06.2025

“Mimarlıkta Yapay Zeka: Genel Kavramlar ve Sürdürülebilir Yapı Uygulamaları”, Online Seminar by Türk Tesisat Mühendisleri Derneği (TTMD), Moderated by Assoc. Prof. Dr. Zeynep Durmuş Arsan, 15.05.2025

“Mimarlıkta Yapay Zeka: Genel Kavramlar ve Sürdürülebilir Yapı Uygulamaları”, Online Seminar, 4. Mimarlık ve Enerji Çalıştayı, Gebze Technical University, 11.04.2025

“Surrogate Modelling in Performative Computational Architecture” in Building Technology Master Track, AR0202: Computational Intelligence of Integrated Design. Organised by Asst. Prof. Dr. Charalampos P. Andriotis & Assoc. Prof. Dr. Michela Turrin, TU Delft, 12.03.2025.

“Kent ve Estetik”, Ege TV, Moderated by Ayşe Vatansever, 07.02.2025

“Yapay Zeka ile Çalışmak: Etkiler ve Geleceğe Bakış”, İzmir Kalkınma Ajansı & BASİFED & İzmir Mimarlar Odası, Moderated by Assoc. Prof. Dr. Lale Başarır, 11.01.2025



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EK 1.

- “Tasarım Süreçlerinde Yapay Zeka”, Antalya Bilim University, Moderated by Dr. Gamze Akyol, 10.12.2024
- “A lecture and workshop on optimisation algorithms” in Spatial Computing Computational Design Studio. Organised by Ir. Hans Hoogenboom, Design Informatics Chair, TU Delft, 09.12.2024.
- “Mimarlıkta Yapay Zeka”, Üretimhane (Academy of Arts and Design London), Online Seminar, 20.11.2024
- “Mimarlıkta Yapay Zeka”, Diyarbakır Mimarlar Odası, 26.10.2024
- “Performative Computational Architecture”, Yaşar University Dept of Int. Arch and Env. Des., Organised by Asst. Prof. Dr. Cemre Uğurlu, 16.10.2024
- “Mimarlıkta Yapay Zeka”, Kocaeli Mimarlar Odası, 10.10.2024
- “Mimarlıkta Yapay Zeka”, Archify – Archfest – Foça, 07.09.2024
- “Mimarlıkta Yapay Zeka”, Üretimhane (Academy of Arts and Design London), Online Seminar, 12.06.2024
- “Parametrik Tasarım, Performans ve Yapay Zeka Üzerine Bir Mimarın Akademik Kariyeri”, Archify Vizyon, 02.03.2024
- “A lecture and workshop on optimisation algorithms” in Spatial Computing Computational Design Studio. Organised by Ir. Hans Hoogenboom, Design Informatics Chair, TU Delft, 05.12.2023.
- “Eğitimde Yapay Zeka”, İYTE IX. Eğitim Çalıştayı – Eğitimde Yapay Zeka, 29.09.2023
- “Mimarlıkta Yapay Zeka”, TonoZ Düşünce Atölyesi, Güzel İşler Derneği, Bergama, 02.09.2023
- “Surrogate Modelling in Performative Computational Architecture” in Building Technology Master Track, AR0202: Computational Intelligence of Integrated Design. Organised by Asst. Prof. Dr. Charalampos P. Andriotis & Assoc. Prof. Dr. Michela Turrin, TU Delft, 15.03.2023.
- “A lecture and workshop on optimisation algorithms” in Spatial Computing Computational Design Studio. Organised by Ir. Hans Hoogenboom, Design Informatics Chair, TU Delft, 05.12.2022.
- “Advanced computational workflows for façade designs” in Smart Skins Lecture Series. Organised by Asst. Prof. Dr. Jonathan Natanian, Environmental Performance and Design Laboratory, Technion Israel Institute of Technology, 24.11.2022.
- “Towards self-sufficient high-rises: Performance optimisation using artificial intelligence” in Online Lecture Series. Organised by Lec. Nilufer İrem Soysal, Institute for Art & Culture, 23.11.2022.
- “Computational intelligence in decision making” in MEGA 2018 – Design Informatics Workshop. Organised by Asst. Prof. Dr. Michela Turrin, Design Informatics Chair, TU Delft 08.05.2018.

F. Workshops and Seminars (Attended)

- Adaptive façades training school, 2018 Belgrade.
- Application of asymmetric shell structures workshop, 2017 Yaşar University.
- MOBBiG 35, 2012 Yaşar University.
- The art of speech, 2012 Yaşar University.
- Architectural Association (AA) visiting school, 2012 İstanbul Technical University.
- Time and space workshop, 2009 Dokuz Eylül University.
- Speed reading with comprehension, 2006 İzmir.



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EK 1.

G. Visiting

Taltech, Estonia, 14-16 December 2023 (Opponent of PhD Defence, Nasim Eslamirad)

Universidad Politecnica de Valencia, Spain, 01.2013-07.2013, MSc research (Sabbatical & Erasmus)

Michele Gambato Architetto, Padua/Italy, 06.2010-09.2010, BSc trainee (Erasmus Internship)