

ISIK ATES KIRAL, PhD

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BIOGRAPHY

Dr. Kiral completed his Ph.D. at Bogazici University Civil Engineering program and have been continuing the academic activities for about eleven years. He completed master degree on M.Sc. Construction Project Management program at the University of Manchester. In his master thesis, he measured the suitability of the risk identification techniques throughout the lifecycle of construction projects at the Civil Engineering Department of the University of Manchester. Later on, he wrote a Ph.D. thesis on developing a model to evaluate the effectiveness of virtual construction safety training tools, which involves innovative methods in data analysis such as eye tracking metrics. So, as some of the most important areas of Construction Project Management, he specializes in Risk Management, Project Planning and Control, Organizational Development, Contract Management and Occupational Health and Safety. Moreover, he published five SCI-E, one ESCI, one TRDizin, one other indexed journal papers, eleven international, one national conference proceedings, one international book and one book chapter. In addition to his academic career, Dr. Kiral also worked as a planning engineer at ENKA and thus, had the opportunity to improve his implicit knowledge in the industry and specialized in planning via Primavera and MS Project. In his eleven-year professional career, he worked as a project assistant in two different Scientific Research Projects (BAP), a developer in his own project, a research assistant at Bogazici University for five years, a visiting assistant professor at Altinbas University for a year and an assistant professor at Istinye University for 3.5 years. Also, he worked at several administrative roles at Istinye University such as Vice Dean and Head of Civil Engineering Department. Due to his work experience and academic studies in the construction industry, he has knowledge and experience in analyzing construction risks, developing games, designing worker health and safety training, developing serious game-based training methods, measuring and evaluating peripheral vision level of construction workers, analyzing critical factors affecting occupational health and safety ergonomics, creating a work schedule, analyzing building costs, conducting earned value management, creating specific contracts in construction projects, providing organizational and people-oriented development and other related areas of construction project management. Currently, he works as assistant professor at Bursa Technical University and visiting lecturer at Medipol University.

EDUCATION

Bogazici University, Istanbul, Turkey

02/01/2014 – 11/19/2019 Ph.D., Department of Civil Engineering. GPA:3.08/4.00
Ph.D. Thesis: A Model to Evaluate the Effectiveness of Virtual Construction Safety Training Tool.

University of Manchester, Manchester, United Kingdom

09/19/2011 – 11/28/2012 M.Sc. in Construction Project Management, Department of MACE. Merit Degree
M.Sc. Thesis: Suitability of the Risk Identification Techniques throughout the Construction Project Lifecycle.

Istanbul University, Istanbul, Turkey

09/05/2005 – 06/22/2011 B.Sc., Department of Civil Engineering. Civil Engineering

ADMINISTRATIVE EXPERIENCE

02/01/2024 – Present Bursa Technical University, Department of Civil Engineering, Head of the Construction Management Division
05/16/2022 – 01/31/2024 Istinye University, Department of Civil Engineering, Department Chair
07/17/2021 – 05/16/2022 Istinye University, Department of Civil Engineering, Acting Department Chair
02/15/2021 – 09/17/2021 Istinye University, Engineering and Natural Sciences Faculty, Vice Dean
07/27/2020 – 07/17/2021 Istinye University, Department of Civil Engineering, Vice Department Chair

TEACHING AND RESEARCH EXPERIENCE

Full-Time Teaching and Research

02/01/2022 – Present Bursa Technical University, Department of Civil Engineering, Assistant Professor
07/27/2020 – 01/31/2024 Istinye University, Department of Civil Engineering, Assistant Professor
11/10/2014 – 09/30/2019 Bogazici University, Department of Civil Engineering, Research and Teaching Assistant

Part-Time Teaching

02/24/2022 – Present Medipol University, Department of Civil Engineering, Visiting Lecturer
10/07/2019 – 07/27/2020 Altinbas University, Department of Civil Engineering, Visiting Lecturer

PROJECT EXPERIENCE

Bogazici University, Civil Engineering Department, *Istanbul, Turkey*

04/12/2017 – 09/30/2019

Project Assistant - Measuring the Virtual Construction Safety Training Effectiveness by Using Eye-Tracking Technologies, Bogazici University Scientific Research Projects (BAP) coded 17A04D5.

<https://arastirma.bogazici.edu.tr/tr/proje/measuring-virtual-construction-safety-training-effectiveness-using-eye-tracking-technologies>

Bogazici University, Civil Engineering Department, *Istanbul, Turkey*

04/15/2014 – 10/11/2014

Project Assistant – Development of Internet-based Occupational Health and Safety Training Tool (Start-up Project), Bogazici University Scientific Research Projects (BAP) coded 14A0SUP1.

<https://arastirma.boun.edu.tr/tr/internet-tabanlı-sagligi-ve-guvenligi-egitim-aracinin-gelistirilmesi>

OFFERED COURSES

Graduate Courses

Bursa Technical University (Senior Lecturer, Full-Time Faculty Member)

- INS 5050: Construction Project Management (Turkish) – [Course Syllabus](#)
- INS 5055: Planning and Control of Construction Projects (Turkish) – [Course Syllabus](#)

Altinbas University (Visiting Lecturer, Part-Time Faculty Member)

- CVE 481: Planning and Control of Construction Projects (English) – [Course Syllabus](#)
- CVE 550: Professional Construction Management (English) – [Course Syllabus](#)

Undergraduate Courses

Bursa Technical University (Senior Lecturer, Full-Time Faculty Member)

- INS 0205: Engineering Economy (Turkish) – [Course Syllabus](#)
- INS 0314: Construction Management (Turkish) – [Course Syllabus](#)
- INS 0387: Planning Techniques (Turkish) – [Course Syllabus](#)
- INS 0408: Construction Management (Turkish) – [Course Syllabus](#)
- INSKP 01: Career Planning (Turkish) – [Course Syllabus](#)
- MIM 0408: Construction Management and Economics (Turkish) – [Course Syllabus](#)

Istinye University (Senior Lecturer, Full-Time Faculty Member)

- CVE 013: Managing Risk in Construction Projects (English) – [Course Syllabus](#)
- CVE 014: Construction Law and Contract Management (English) – [Course Syllabus](#)
- CVE 016: People Management and Organizational Development (English) – [Course Syllabus](#)
- CVE 305: Construction Project Management (English) – [Course Syllabus](#)
- CVE 409: Planning and Control for Construction Projects (English) – [Course Syllabus](#)
- ENT 153: Construction Law (English) – [Course Syllabus](#)
- UNI 151: Introduction to Serious Gaming (English) – [Course Syllabus](#)

Medipol University (Visiting Lecturer, Part-Time Faculty Member)

- CEE 4212523: Construction Law (English) – [Course Syllabus](#)
- İGV 4111400: Occupational Health and Safety I (English) – [Course Syllabus](#)
- İGV4211500: Occupational Health and Safety II (English) – [Course Syllabus](#)
- İNM 4213219: Construction Law (Turkish) – [Course Syllabus](#)

Altinbas University (Visiting Lecturer, Part-Time Faculty Member)

- CVE 470: Management of Construction Projects (English) – [Course Syllabus](#)
- IE 482: Management of Projects (English) – [Course Syllabus](#)
- INS 470: Management of Construction Projects (Turkish) – [Course Syllabus](#)

ASSISTED AND FACILITATED COURSES

Graduate Courses

Bogazici University (Research and Teaching Assistant, Full Time Faculty Member)

- CE 58F: Risk Management and Decision Analysis (English) – [Course Syllabus](#)
- CE 58Z: Global Virtual Design and Construction (English) – [Course Syllabus](#)

Undergraduate Courses

Bogazici University (Research and Teaching Assistant, Full Time Faculty Member)

- CE 101: Introduction to Civil Engineering (English) – [Course Syllabus](#)
- CE 401: Construction Engineering & Management (English) – [Course Syllabus](#)
- CE 402: Civil Engineering Systems Analysis (English) – [Course Syllabus](#)
- CE 48G: Financing Construction Projects (English) – [Course Syllabus](#)
- CE 480: Introduction to Architectural Engineering (English) – [Course Syllabus](#)
- CE 492: Project (English) – [Course Syllabus](#)
- ENG 110: Engineering Graphics (English) – [Course Syllabus](#)

LIST OF PUBLICATIONS

SCI and SCIE Q1 Indexed Journal Papers

- **Kiral, I. A.**, Erdem, Z. I., Cakmak, E., Demirkesen, S (2026). Optimizing Spare Parts Management in Hydraulic Excavators: A Fuzzy Cudas and ABC Analysis Approach. International Journal of Production Research. (**Article in Press**)
- Kaşka, M. S., **Kiral, I. A.**, Niş, A., Demirkesen, S., Çağlayan, S. (2026). A Generalized Artificial Neural Network (ANN) Model for Predicting Construction Project Durations Based on Cost and Geolocation Data. Engineering, Construction and Architectural Management. <https://doi.org/10.1108/ECAM-07-2025-1227>

SCI and SCIE Q2 Indexed Journal Papers

- **Kiral, I. A.** (2025). Contextual Evaluation of Risk Identification Techniques for Construction Projects: Comparative Insights and a Decision-Support Model. Buildings, 15(20), 3806. <https://doi.org/10.3390/buildings15203806>
- Dobrucalı, E., Sadikoglu, E., Demirkesen, S., Zhang, C., Tezel, A., **Kiral, I. A.** (2024). A bibliometric analysis of digital technologies use in construction health and safety. Engineering, Construction and Architectural Management, 31(8), 3249-3282. <https://doi.org/10.1108/ECAM-08-2022-0798>.
- **Kiral, I. A.**, Demirkesen, S. (2022). Assessing the Impact of Peripheral Vision on Construction Site Safety. Engineering, Construction, and Architectural Management, <https://doi.org/10.1108/ECAM-01-2022-0061>.
- Tezel A., Dobrucalı, E., Demirkesen S., **Kiral, I. A.** (2021) Critical Success Factors for Safety Training in the Construction Industry, Buildings 2021, 11(4), 139, <https://doi.org/10.3390/buildings11040139>.

SCI and SCIE Q3 Indexed Journal Papers

- Nasser, B., Boz, R., **Kiral, I. A.**, Çağlayan, S. (2026). A Safety Performance Framework for the Turkish Construction Industry. Canadian Journal of Civil Engineering. <https://doi.org/10.1139/cjce-2025-0551>
- **Kiral, I. A.**, Demirkesen, S. (2024).. Evaluating the impact of different hard hats on the peripheral vision of construction workers. International Journal of Occupational Safety and Ergonomics, 1-43. <https://doi.org/10.1080/10803548.2024.2316515>

ESCI Indexed Journal Papers

- Comu, S., Yucel, B., **Kiral, I. A.** (2023). Comparing the safety awareness of workers on the virtual and real construction site using eye-tracking technology. Journal of Construction Engineering, Management & Innovation. 6(4), 266-284. <https://doi.org/10.31462/jcemi.2023.04266284>

TRDizin Indexed Journal Papers

- **Kiral, I. A.** (2025). Evaluation of Eye Health Parameters of Construction Industry Workers in Terms of Turkish Occupational Safety Standards. Journal of Innovative Science and Engineering. 9(2), 343-358. <https://doi.org/10.38088/jise.1715964>

Other Indexed Journal Papers

- Kaska, M. S., **Kiral, I. A.**, Nis, A. (2024). Duration Estimation with Artificial Neural Networks in Turkish Public Projects. International Journal of Engineering Technologies IJET, 9(4), 102-108. <https://doi.org/10.19072/ijet.1587542>

International Conference Proceedings

- **Kiral, I. A.** (2025, October 23-24), "Artificial Intelligence-Assisted Earned Value Analysis: A Systematic Literature Review for Data-Driven Project Control in Construction Projects", International Academic Studies Conference ([Link](#))
- **Kiral, I. A.**, (2023, April 28-30), "Assessing the Impact of Extraversion on Transformational Leadership Skills in the Field of Construction Project Management", Ases IV. International Educational Sciences Conference, Giresun, Turkey ([Link](#)).
- **Kiral, I. A.**, (2023, April 28-30), "Investigating the Effectiveness of Experiential Learning in Promoting Sustainability in Engineering Education", Ases IV. International Educational Sciences Conference, Giresun, Turkey ([Link](#)).
- **Kiral, I. A.**, (2023, April 29-30), "Çevresel Goriş Alanının İnşaat Sektöründe İsci Sağlığı ve İş Güvenliği Alanındaki Rolü", 9th International Congress on Engineering and Technology Management ([Link](#)).

- **Kiral, I. A.**, (2023, April 29-30), “Systematic Review of the use of Artificial Intelligence in Construction Safety”, 9th International Congress on Engineering and Technology Management ([Link](#)).
- **Kiral, I. A.**, Comu, S. (2017, July, 4-7) “Safety Training for Scaffolding and Formwork Construction by Using Virtual Environment” In: Proc. Lean & Computing in Construction Congress (LC3) 2017: Volume I – Proceedings of the Joint Conference on Computing in Construction (JC3). Heraklion, Greece, pp 415-422. ([Link](#))
- **Kiral, I. A.**, Comu, S., Chen, J., Taylor, J. (2016, December, 12-13). “Virtual Collaborative Safety Training for the Crane Operations”, Construction Applications of Virtual Reality. Hong Kong University, Lung Fu Shan, Hong Kong. ([Link](#))
- Sebzeci, C., Comu, S., **Kiral, I. A.** (2016, December, 12-13). “Identifying Construction Risk Sources by Virtual Environments”. Construction Applications of Virtual Reality. Hong Kong University, Lung Fu Shan, Hong Kong. ([Link](#))
- **Kiral, I. A.**, Comu, S. (2016, September, 21-23). “Evaluation of the Effectiveness of the Virtual Safety Training Methods in the Construction Industry”. 12th International Congress on Advances in Civil Engineering, Bogazici University, İstanbul. ([Link](#))
- **Kiral, I. A.**, Çomu, S., Kavaklioglu (2015, June 7-10). “Enhancing the Construction Safety Training by Using Virtual Safety Training Tool: V-SAFE”. ICSC15 - The CSCE International Construction Specialty Conference, University of British Columbia, Vancouver, Canada. ([Link](#))
- **Kiral, I. A.**, Kural, Z., Comu, S. (2014, October 21-25). “Risk Identification in Construction Projects: Using the Delphi Method”. 11th International Congress on Advances in Civil Engineering. İstanbul Teknik University, Engineering Faculty, Department of Civil Engineering, İstanbul. ([Link](#))

National Conference Proceedings

- **Kiral, I. A.**, Sahinkaya, M., Comu, S. (2014, November 6-8). “Kuresel Isbirlikleri icin Sanal Is Ortamlari ve Insaat Muhendisligi Egitimi”. 3. Proje ve Yapim Yonetimi Kongresi. Akdeniz University, Engineering Faculty, Department of Civil Engineering, Antalya. ([Link](#))

INDUSTRY EXPERIENCE

ENKA, Planning Engineer, Alliance Khabarovsk Refinery Hydroprocessing Project, Khabarovsk, Russia

01/15/2013 – 03/31/2013

ENKA is one of the largest construction companies in Turkey and ranked among the ENR's Top International Contractors since 1981. Ranked among the most valuable brands of Turkey Records show that, thus far, ENKA was awarded 570 projects with a total contract value of USD 60 billion in 52 countries. ENKA's turnover of USD 3.73 billion in 2022 consists of the revenues of engineering and construction, power generation, real estate and trade.

Khabarovsk Refinery Hydroprocessing project consisted expansion of the existing refinery. The work included new combined Hydrocracking, Hydrotreating and Hydrogen Units. The associated utilities and offsites, together with the associated upgrades and infrastructure modifications and interconnecting pipe racks were also included. The scope of the project also consisted of all pre-commissioning activities.

In the role of planning engineer, my responsibilities included creating Level 5 schedules for various activities such as Piping, Mechanical, Electromechanical, Steel, Electrical, and Instrumentation. I utilized man-hour theory to schedule activities and employed Primavera P3 and MS Project for the overall project scheduling. Regularly updating the base-plan due to out-of-scope activities and maintaining detailed records was part of my duties. I also managed contract updates with the main contractor, engaged in official correspondence, and participated in weekly progress report meetings. Additionally, I played a key role in decision-making, overseeing additional works, and collaborating with the main contractor to define the scope of activities and prepare offers. Other responsibilities included preparing advance payment reports for submission to banks, progress reporting using MS Excel, and organizing interim payment reports.

IT SKILLS

- Advanced in SPSS, AMOS, MS Project, Primavera P6.
- Proficient in Unity, ASTA PowerProject.
- Moderate in Python, Blender, Stata, C#.