

# Prof. MUSTAFA TALAT BİRGÖNÜL

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-1501-2020

ScopusID: 7801530959

Yoksis Researcher ID: 163723

## Education Information

Post Doctorate, University of Reading, Department of Construction Management and Engineering, United Kingdom 1993 - 1994

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1983 - 1990

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Department of Civil Engineering, Turkey 1979 - 1981

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1974 - 1979

## Dissertations

Doctorate, Optimization of Urban Transportation Investments Based on Simplified Travel Demand Model Results for Small and Medium-Sized Cities of Developing Countries, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1990

Postgraduate, Economic evaluation techniques of urban transportation alternatives, Middle East Technical University, Graduate School of Natural and Applied Sciences, 1981

## Research Areas

Engineering and Technology

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2004 - Continues  
Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1996 - 2004

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1990 - 1996

Visiting Lecturer, University of Reading, Department of Construction Management and Engineering, 1993 - 1994

Instructor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1985 - 1990

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1980 - 1985

## Advising Theses

- BİRGÖNÜL M. T., Prediction of the house price index of Turkey: A comparative study of multiple linear regression and artificial neural network models, Postgraduate, Y.KEMAL(Student), 2022
- BİRGÖNÜL M. T., Using natural language processing for automated construction contract review during risk assessment at the bidding stage, Doctorate, G.EKEN(Student), 2022
- BİRGÖNÜL M. T., An exploratory study on causes and impacts of variation orders in public-private partnership projects, Postgraduate, K.UMUT(Student), 2022
- BİRGÖNÜL M. T., USING POST-PROJECT REVIEWS FOR RISK ASSESSMENT OF CONSTRUCTION PROJECTS, Postgraduate, P.SHOKOUHI(Student), 2022
- BİRGÖNÜL M. T., A tool for visualization of risk information: The risk box, Postgraduate, E.KARAKOÇAK(Student), 2021
- BİRGÖNÜL M. T., An exploratory study on complexity in mega construction projects, Postgraduate, G.BİLGİN(Student), 2021
- BİRGÖNÜL M. T., Investigation of legal issues and contractual considerations associated with bim use in construction projects, Postgraduate, F.KAYA(Student), 2021
- BİRGÖNÜL M. T., Development of an activity-based lessons learned process model and a tool to support scheduling decisions in construction firms, Postgraduate, A.YILMAZ(Student), 2021
- Dikmen Toker İ., Birgönül M. T., INCORPORATING COMPLEXITY INTO RISK MANAGEMENT: AN INTEGRATED RISK ASSESSMENT PROCESS FOR MEGA CONSTRUCTION PROJECTS, Doctorate, H.HÜSEYİN(Student), 2020
- Dikmen Toker İ., Birgönül M. T., FMEA-based methodology for delay analysis of construction projects, Postgraduate, A.DUMLU(Student), 2020
- Birgönül M. T., Dikmen Toker İ., DEVELOPMENT OF DISPUTE PREDICTION AND RESOLUTION METHOD SELECTION MODELS FOR CONSTRUCTION DISPUTES, Doctorate, M.AYHAN(Student), 2019
- Dikmen Toker İ., Birgönül M. T., A causal mapping approach for the analysis of construction disputes, Postgraduate, C.TANRIVERDİ(Student), 2019
- Birgönül M. T., Dikmen Toker İ., Development of a risk assessment method for sustainable construction of megaprojects, Postgraduate, C.COŞKUN(Student), 2019
- Dikmen Toker İ., Birgönül M. T., Awareness of the turkish construction industry towards industry 4.0 technologies and concepts, Postgraduate, S.EBRAHİMİ(Student), 2019
- Dikmen Toker İ., Birgönül M. T., Project-based innovation performance assessment in the housing sector: A case study using innovation radar, Postgraduate, P.Bilgin(Student), 2019
- Birgönül M. T., Dikmen Toker İ., A bayesian belief network based delay risk assessment tool for tunnel projects – BBN tunnel, Doctorate, G.ÇAĞIL(Student), 2019
- Birgönül M. T., Tokdemir O. B., Risk identification and assessment for ppp integrated health campus projects in Turkey a case study: Kayseri integrated health campus, Postgraduate, Ç.ARSLAN(Student), 2019
- Birgönül M. T., Dikmen Toker İ., Institutionalization process in a family firm: A case study, Postgraduate, G.BERK(Student), 2018
- BİRGÖNÜL M. T., DİKMEN TOKER İ., Similarity assessment of countries to facilitate learning from international construction projects, Postgraduate, B.ÖZYURT(Student), 2018
- BİRGÖNÜL M. T., DİKMEN TOKER İ., EXPLORATION OF BLACK SWANS AND THEIR IMPACTS ON CONSTRUCTION COMPANIES: THE CASE OF ARAB SPRING, Postgraduate, M.BOZTEMUR(Student), 2018
- DİKMEN TOKER İ., BİRGÖNÜL M. T., An Investigation of material waste management in prefabricated construction industry and developing a tool for effective management of waste, Doctorate, B.Rahmani(Student), 2018
- BİRGÖNÜL M. T., DİKMEN TOKER İ., AN INVESTIGATION OF MATERIAL WASTE MANAGEMENT IN PREFABRICATED CONSTRUCTION INDUSTRY AND DEVELOPING AN INTEGRATED WASTE MANAGEMENT TOOL, Doctorate, B.RAHMANI(Student), 2018
- BİRGÖNÜL M. T., DİKMEN TOKER İ., A study on the price escalation system in public construction contracts in Turkey,

Postgraduate, M.ERCAN(Student), 2017

BİRGÖNÜL M. T., DİKMEN TOKER İ., Development of a lessons learned management process model and a web-based tool for construction companies, Postgraduate, G.EKEN(Student), 2017

BİRGÖNÜL M. T., Glocalization in international construction projects, Postgraduate, Ö.SÖNMEZ(Student), 2016

BİRGÖNÜL M. T., DİKMEN TOKER İ., The future of green building contracts in Turkey, Postgraduate, S.MOHAMMADI(Student), 2015

BİRGÖNÜL M. T., The evaluation of construction projects realized with public private partnership model in Turkey, Postgraduate, O.CAN(Student), 2015

BİRGÖNÜL M. T., A fuzzy structural equation model to analyze relationships between determinants of safety performance in construction sites: Development of a safety performance index assessment tool., Doctorate, M.ÖZDEMİR(Student), 2015

BİRGÖNÜL M. T., A Fuzzy structural equation model to analyze relationships between determinants of safety performance in construction sites: development of a safety performance index assessment tool, Doctorate, M.Özdemir(Student), 2015

BİRGÖNÜL M. T., DİKMEN TOKER İ., Turkish contractors in the project finance of power projects in Sub-Saharan Africa (SSA), Postgraduate, O.MBI(Student), 2015

BİRGÖNÜL M. T., DİKMEN TOKER İ., Future of green building contracts in Turkey, Postgraduate, S.Mohammadi(Student), 2015

BİRGÖNÜL M. T., DİKMEN TOKER İ., Factors affecting the risk ratings assigned by decision-makers under uncertain situations: The case of international construction, Postgraduate, E.HAYAT(Student), 2014

BİRGÖNÜL M. T., DİKMEN TOKER İ., Buffer sizing model with fuzzy assessment on concrete gravity dam and HEPP projects /, Postgraduate, Ş.BALTA(Student), 2014

BİRGÖNÜL M. T., DİKMEN TOKER İ., Using Monte Carlo simulation and multi-agent systems to estimate financial feasibility of hepp projects tendered on a bot basis: A case study from Turkey, Doctorate, E.CANER(Student), 2014

BİRGÖNÜL M. T., DİKMEN TOKER İ., IDENTIFYING THE EFFECTS OF LEAN CONSTRUCTION PRINCIPLES ON VARIABILITY OF PROJECT DURATION, Postgraduate, H.HÜSEYİN(Student), 2014

BİRGÖNÜL M. T., Cost comparison of falling from fragile roof in terms of occupational health and safety, Postgraduate, S.YALÇIN(Student), 2014

DİKMEN TOKER İ., BİRGÖNÜL M. T., Social network analysis of construction companies operating in international markets: The case of Turkish contractors, Postgraduate, B.KEMAL(Student), 2014

BİRGÖNÜL M. T., YILDIZ S. G., Cost comparison of falling from fragile roof type accidents in terms of occupational health and safety /, Postgraduate, S.Yalçın(Student), 2014

DİKMEN TOKER İ., BİRGÖNÜL M. T., Identifying the effects of lean construction principles on variability of project duration /, Postgraduate, H.Hüseyin(Student), 2014

Dikmen Toker I, Birgönül M. T., Development of a knowledge based risk mapping tool for international construction projects, Postgraduate, A.Ecem(Student), 2012

Dikmen Toker I, Birgönül M. T., Developing a knowledge taxonomy for business development in construction companies: A case of Turkish construction industry, Postgraduate, A.Haghoie(Student), 2012

Dikmen Toker I, Birgönül M. T., A taxonomy for causes of changes in construction, Postgraduate, B.RAHMANİ(Student), 2012

Dikmen Toker I, Birgönül M. T., A fuzzy delay assessment tool for construction projects, Postgraduate, A.Ghaziani(Student), 2012

Birgönül M. T., Occupational health and safety, hazard identification, risk assessment, determining controls: Case study on cut and cover underground stations and tunnel construction, Postgraduate, C.Ceyhan(Student), 2012

DİKMEN TOKER İ., BİRGÖNÜL M. T., Development of a knowledge-based risk mapping tool for International Construction Projects, Postgraduate, A.Ecem(Student), 2012

BİRGÖNÜL M. T., Occupational health and safety hazard identification, risk assessment, determining controls: case study on cut and cover underground stations and tunnel construction, Postgraduate, C.Ceyhan(Student), 2012

BİRGÖNÜL M. T., Shortcomings of delay analysis practices: A case study using an integrated approach, Postgraduate, Ş.BEKTAŞ(Student), 2012

BİRGÖNÜL M. T., A model-based guidance and vulnerability assessment approach for facilities under the threat of multi-

hazard emergencies, Postgraduate, M.AYHAN(Student), 2012

BİRGÖNÜL M. T., DİKMEN TOKER İ., Comparison of FIDIC conditions of contract (1999) and UNCITRAL Legal Guide from prospective disputes and claims perspective, Postgraduate, F.PELİN(Student), 2012

BİRGÖNÜL M. T., DİKMEN TOKER İ., Comparison of FIDIC conditions of contract (1999) and UNCITRAL legal guide from prospective disputes and claims perspectives, Postgraduate, F.Pelin(Student), 2012

Birgönül M. T., Dikmen Toker I., An ontology-based approach for delay analysis, Postgraduate, G.BİLGİN(Student), 2011

Dikmen Toker I., Birgönül M. T., Critical success factors for build operate transfer (BOT) projects: Lessons learned from airport projects, Postgraduate, M.KASHEF(Student), 2011

BİRGÖNÜL M. T., DİKMEN TOKER İ., The route map of turkish international contracting services – lessons learnt and recommendations for the, Postgraduate, A.Sakın(Student), 2011

Birgönül M. T., Dikmen Toker I., The route map of Turkish international contracting services-Lessons learnt and recommendations for the future, Postgraduate, A.SAKIN(Student), 2011

BİRGÖNÜL M. T., Identification and representation of information items required for vulnerability assessment and multi-hazard emergency response operations, Postgraduate, N.GÖKDEMİR(Student), 2011

Dikmen Toker I., Birgönül M. T., Analysis of organisational routines to understand change in construction: The case of turkish construction industry, Postgraduate, M.DANESHVAR(Student), 2011

Dikmen Toker I., Birgönül M. T., Identification of risk paths in international construction projects, Postgraduate, M.EYBPOOSH(Student), 2010

Birgönül M. T., Dikmen Toker I., Institutionalization of construction firms: Turkish contractors' case, Postgraduate, Ö.Yavuzylmaz(Student), 2010

Birgönül M. T., Acar S. O., Development of an expert system for the quantification of fault rates in traffic accidents, Postgraduate, E.Cangul(Student), 2010

BİRGÖNÜL M. T., DİKMEN TOKER İ., Analogical reasoning for risk assessment and cost overrun estimation in construction projects, Postgraduate, O.ÇELENLİGİL(Student), 2010

Dikmen Toker I., Birgönül M. T., Development of a multi agent system for negotiation of cost overrun in international construction projects, Postgraduate, K.KARAKAŞ(Student), 2010

Birgönül M. T., Dikmen I., A conceptual performance measurement framework for construction industry, Doctorate, Z.İŞİK(Student), 2009

BİRGÖNÜL M. T., DİKMEN TOKER İ., Development of an activity based risk assessment tool using integrated duration – cost influence network, Postgraduate, A.HAMDİ(Student), 2009

BİRGÖNÜL M. T., DİKMEN TOKER İ., Contract management behavior of turkish construction companies in international contracts, Postgraduate, M.ALPER(Student), 2009

Dikmen Toker I., Birgönül M. T., Developing a strategic information system for construction companies, Postgraduate, T.GÜNEŞ(Student), 2008

Birgönül M. T., Dikmen Toker I., Strategic group analysis: Strategic perspective, differentiation and performance in construction, Doctorate, C.BUDAYAN(Student), 2008

Dikmen Toker I., Birgönül M. T., A generic risk and vulnerability assessment framework for international construction projects, Postgraduate, G.ÖZCAN(Student), 2008

Birgönül M. T., Dikmen I., Risk assessment of international construction projects using the Analytic Network Process, Postgraduate, A.Suliman(Student), 2007

BİRGÖNÜL M. T., DİKMEN TOKER İ., Development of a risk assessment tool for post-project appraisal, Postgraduate, C.ANAÇ(Student), 2007

BİRGÖNÜL M. T., DİKMEN TOKER İ., Using cognitive maps for modeling project success, Postgraduate, G.ATASOY(Student), 2007

BİRGÖNÜL M. T., DİKMEN TOKER İ., Organizational decline and bankruptcy prediction model for the Turkish construction companies, Postgraduate, N.EĞİLMEZER(Student), 2007

BİRGÖNÜL M. T., DİKMEN TOKER İ., Critical success factors for partnering in the Turkish construction industry, Postgraduate, K.EREN(Student), 2007

BİRGÖNÜL M. T., DİKMEN TOKER İ., Modeling the performance of international construction joint ventures, Doctorate, B.ÖZORHON(Student), 2007

BİRGÖNÜL M. T., DİKMEN TOKER İ., Country risk assessment in the construction industry, Postgraduate,

A.AKÇAMETE(Student), 2006

BİRĞÖNÜL M. T., DİKMEN TOKER İ., Quantification of acceleration claims: A simplified approach, Postgraduate, A.ÖZGE(Student), 2005

BİRĞÖNÜL M. T., DİKMEN TOKER İ., Comparison of International Federation of Consulting Engineers and general specification for public works contracts from risk management perspective, Postgraduate, E.USTA(Student), 2005

BİRĞÖNÜL M. T., DİKMEN TOKER İ., Development of a risk management decision support system for international construction projects, Postgraduate, A.ERDEM(Student), 2005

BİRĞÖNÜL M. T., An expert system for the quantification of fault rates in construction fall accidents, Postgraduate, T.DEMİREL(Student), 2005

BİRĞÖNÜL M. T., DİKMEN TOKER İ., Case based decision support system for bid markup estimation of international construction projects at the tender stage, Postgraduate, A.KAMİL(Student), 2005

BİRĞÖNÜL M. T., Determination of contingency for international construction projects during bidding stage, Postgraduate, A.ARİF(Student), 2005

BİRĞÖNÜL M. T., simplified approach, Postgraduate, A.Özge(Student), 2005

BİRĞÖNÜL M. T., Organizational memory in construction companies: A case-based reasoning model as an organizational learning tool, Postgraduate, B.ÖZORHON(Student), 2004

Tuncan M., Birgönül M. T., İhale yönetimi bilgi sistemleri: İnşaat projelerinde elektronik ihale teklif yönetim sistemi (EİTYS), Doctorate, G.ARSLAN(Student), 2002

BİRĞÖNÜL M. T., Marketing in the Turkish construction industry., Postgraduate, İ.ÖZCENK(Student), 2002

BİRĞÖNÜL M. T., Impact of construction management graduate education on professional life, Postgraduate, E.ÇANGA(Student), 2002

BİRĞÖNÜL M. T., An Innovation management model for construction companies: Case-studies from the Turkish construction industry, Postgraduate, S.UMUT(Student), 2002

BİRĞÖNÜL M. T., An Organizational learning framework as a driver of organizational performance of Turkish construction companies, Postgraduate, T.ATAOĞLU(Student), 2002

BİRĞÖNÜL M. T., Organizational effectiveness in Turkish construction companies: An artificial neural network based prediction model, Postgraduate, S.KIZILTAŞ(Student), 2002

Birgönül M. T., Strategic decision making in construction companies: An artificial neural network based decision support system for international market selection, Doctorate, İ.DİKMEN(Student), 2001

BİRĞÖNÜL M. T., Dispute creation and resolution mechanisms of Turkish construction sector in public projects, Postgraduate, G.GÜNAY(Student), 2001

BİRĞÖNÜL M. T., Value management approach for the selection of construction materials for the buildings owned by Air Force Command, Postgraduate, S.DEREN(Student), 2001

Birgönül M. T., Refinement of Benefit Cost analysis results for highway projects, Postgraduate, N.Özkan(Student), 2000

BİRĞÖNÜL M. T., Problems faced by foreign contractors working in Turkey, Postgraduate, S.ÖNEN(Student), 2000

BİRĞÖNÜL M. T., A Comparative study on the reliability-based risk assessment in project management of coastal structures, Postgraduate, G.PİŞKİN(Student), 2000

BİRĞÖNÜL M. T., Effects of economic recession periods on Turkish construction companies, Postgraduate, L.ÇAĞRI(Student), 2000

BİRĞÖNÜL M. T., A Genetic algorithm for multi-mode resource constrained project scheduling, Postgraduate, B.GÜVENÇ(Student), 2000

BİRĞÖNÜL M. T., Critical review of construction machinery costs within the context of general price analysis, Postgraduate, S.ÖZTABAK(Student), 2000

BİRĞÖNÜL M. T., ISO 9000 standarts in the Turkish construction industry, Postgraduate, D.TÜRK(Student), 1999

Inal A., Birgönül M. T., Development of a quality assurance system for highways in Turkey., Postgraduate, D.Özmen(Student), 1998

Arikan M. S., Birgönül M. T., Subcontracting relationship between subcontractors and contractors in Turkish construction sector, Postgraduate, A.Çevik(Student), 1998

Keyder E., Birgönül M. T., CPM (Critical Path Method) applications and problems faced in Turkish construction sector, Postgraduate, A.Yurdakul(Student), 1998

Birgönül M. T., Arikan M. S., Evaluation of the subcontracting system in Turkey, Postgraduate, E.Gökçek(Student), 1998

Ergin A., Birgönül M. T., A reliability-based risk assessment model for coastal projects, Doctorate, C.Elmar(Student), 1998

BİRGÖNÜL M. T., Risk perception and trends of Turkish construction compaies, Postgraduate, A.PETEK(Student), 1998

BİRGÖNÜL M. T., Performance of Turkish Contractors working abroad, Postgraduate, M.METİN(Student), 1998

Ergin A., Birgönül M. T., Risk analysis and cost simulation of coastal projects, Postgraduate, M.Ali(Student), 1998

BİRGÖNÜL M. T., Investigation of state procurement law and amendments necessary to make it consistent with the World Bank proctices, Postgraduate, Ç.SÜRÜCÜ(Student), 1998

Arikan M. S., Birgönül M. T., Quality management in construction, Postgraduate, E.Kökçuoğlu(Student), 1997

Birgönül M. T., Yeğınobalı A., Toplu konut inşaatlarında düşük kaliteden kaynaklanan maliyetler, Doctorate, A.Kazaz(Student), 1997

BİRGÖNÜL M. T., Risk analysis of construction projects based on unit prices under inflationary conditions, Postgraduate, D.ELMAS(Student), 1996

BİRGÖNÜL M. T., Current quality control systems used in Turkey and suggestions for further improvements, Postgraduate, İ.ÇETİN(Student), 1996

BİRGÖNÜL M. T., Time, cost and quality management of mass housing projects, Postgraduate, M.CAN(Student), 1996

BİRGÖNÜL M. T., Management of political risk in public non-building construction projects, Postgraduate, M.ŞEFİK(Student), 1996

BİRGÖNÜL M. T., Risk management of build-operate-transfer (BOT) project in developing countries, Postgraduate, İ.ÖZDOĞAN(Student), 1996

BİRGÖNÜL M. T., Economic analysis multi-stage housing production model, Postgraduate, M.KAAN(Student), 1996

BİRGÖNÜL M. T., French model of water distribution and sewage collection and treatment service administration under private company management, Postgraduate, M.TUNÇ(Student), 1995

BİRGÖNÜL M. T., Turkish contracting sector: An organisational survey of Turkish contracting companies, Postgraduate, I.RENDA(Student), 1995

BİRGÖNÜL M. T., An Evolution of value management practice in Türkısh Construction Sectör, Postgraduate, A.ASLAN(Student), 1995

BİRGÖNÜL M. T., An Expert system approach based on Şanlıurfa tunnel construction experiences, Postgraduate, B.AKPINAR(Student), 1995

BİRGÖNÜL M. T., Critical review of quality and time control aspects in some major Libyan construction projects, Postgraduate, A.OMER(Student), 1993

BİRGÖNÜL M. T., A Case study on interaction between time and cost constituents of a mass-housing construction project, Postgraduate, A.BARÇIN(Student), 1993

BİRGÖNÜL M. T., An Elastic timing method proposed for construction schedules, Postgraduate, A.SİBEL(Student), 1992

BİRGÖNÜL M. T., Effect of inflation and payment delay on profit margin under unit price contract and the compensation methods, Postgraduate, A.NURHUSSEİN(Student), 1992

BİRGÖNÜL M. T., Measures for improving quality and maintaining economy in low-cost housing projects, Postgraduate, C.ERDOĞAN(Student), 1992

BİRGÖNÜL M. T., An Expert system approach to concrete supervising and precast connections, Postgraduate, Ş.TOPKAYA(Student), 1992

Yeğınobalı A., Birgönül M. T., Thermal insulation and energy conservation measures for low-cost housing, Postgraduate, T.Şahin(Student), 1991

BİRGÖNÜL M. T., The Integration of CPM and materials management in project management, Postgraduate, M.TAŞKINSOY(Student), 1991

BİRGÖNÜL M. T., A Methodology for the evaluation of proposals tendered on the basis of build-operate-transfer model, Postgraduate, A.KORKMAZ(Student), 1991

BİRGÖNÜL M. T., Probabilistic quantity estimation of basic construction items by linear regression method, Postgraduate, V.ÖZKARAMETE(Student), 1989

BİRGÖNÜL M. T., A Computer program related to some standard earthwork equipments, Postgraduate, B.JARKAS(Student), 1989

BİRGÖNÜL M. T., Linear construction planning technique, Postgraduate, H.ÇAKA(Student), 1989

BİRGÖNÜL M. T., A Survey on the construction equipment supply and importation of the Turkish overseas contractors upon completion of their contract, Postgraduate, R.ÇUHADAR(Student), 1989

BİRĞÖNÜL M. T., Concrete construction under different climatic conditions and factors affecting the cost estimate, Postgraduate, J.LABABİDİ(Student), 1988

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

- I. **Development of a knowledge taxonomy and a tool to support business development decisions in construction companies**  
BUDAYAN C., Haghgoie A., BİRĞÖNÜL M. T.  
Ain Shams Engineering Journal, vol.15, no.7, 2024 (SCI-Expanded)
- II. **Real options valuation of photovoltaic investments: A case from Turkey**  
Or B., Bilgin G., Akcay E. C., Dikmen I., BİRĞÖNÜL M. T.  
Renewable and Sustainable Energy Reviews, vol.192, 2024 (SCI-Expanded)
- III. **Disputes Using Machine Learning Techniques Classifying Compensations in Construction**  
AYHAN M., Dikmen I., BİRĞÖNÜL M. T.  
Journal of Engineering Research (Kuwait), vol.11, no.1, pp.101-111, 2023 (SCI-Expanded)
- IV. **A Decision Support System for Project Portfolio Management in Construction Companies**  
Bilgin G., Dikmen I., BİRĞÖNÜL M. T., ÖZORHON ORAKÇAL B.  
INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, vol.22, no.2, pp.705-735, 2023 (SCI-Expanded)
- V. **Solution of discrete time-cost trade-off problem with adaptive search domain**  
BETTEMİR Ö. H., BİRĞÖNÜL M. T.  
Engineering, Construction and Architectural Management, 2023 (SCI-Expanded)
- VI. **Exploring pattern of complexity in mega construction projects**  
Bilgin G., Erol H., ATASOY ÖZCAN G., Dikmen I., BİRĞÖNÜL M. T.  
INTERNATIONAL JOURNAL OF MANAGING PROJECTS IN BUSINESS, vol.15, no.7, pp.1064-1090, 2022 (SSCI)
- VII. **A decision-support tool for risk and complexity assessment and visualization in construction projects**  
DİKMEN TOKER İ., ATASOY ÖZCAN G., EROL H. H., Kaya H. D., BİRĞÖNÜL M. T.  
Computers in Industry, vol.141, 2022 (SCI-Expanded)
- VIII. **Comparing Performances of Machine Learning Techniques to Forecast Dispute Resolutions**  
AYHAN M., DİKMEN TOKER İ., BİRĞÖNÜL M. T.  
TEKNIK DERGI, vol.33, no.5, pp.12577-12600, 2022 (SCI-Expanded)
- IX. **Empowering Risk Communication: Use of Visualizations to Describe Project Risks**  
ATASOY ÖZCAN G., Ertaymaz U., DİKMEN TOKER İ., BİRĞÖNÜL M. T.  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT, vol.148, no.5, 2022 (SCI-Expanded)
- X. **An analytic network process model for risk quantification of mega construction projects**  
EROL H. H., DİKMEN TOKER İ., ATASOY ÖZCAN G., BİRĞÖNÜL M. T.  
Expert Systems with Applications, vol.191, 2022 (SCI-Expanded)
- XI. **Development of a knowledge-based tool for waste management of prefabricated steel structure projects**  
Mirshekarlou B. R., BUDAYAN C., DİKMEN TOKER İ., BİRĞÖNÜL M. T.  
JOURNAL OF CLEANER PRODUCTION, vol.323, 2021 (SCI-Expanded)
- XII. **Bayesian network based decision support for predicting and mitigating delay risk in TBM tunnel projects**  
Koseoglu Balta G., DİKMEN TOKER İ., BİRĞÖNÜL M. T.  
Automation in Construction, vol.129, 2021 (SCI-Expanded)
- XIII. **Causal mapping to explore emergence of construction disputes**  
Tanriverdi C., ATASOY ÖZCAN G., DİKMEN TOKER İ., BİRĞÖNÜL M. T.  
Journal of Civil Engineering and Management, vol.27, no.5, pp.288-302, 2021 (SCI-Expanded)
- XIV. **Predicting the Occurrence of Construction Disputes Using Machine Learning Techniques**

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## Scientific Consultations

Astaldi - Türkerler Joint venture, Scientific Consultancy, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey, 2019 - 2019

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## Scholarships

British Council Academic Link Project, British Council, 1998 - 2001  
British Council Fellowship, British Council, 1993 - 1994  
Technical Cooperation Training Award, British Council, 1988 - 1988

## **Awards**

Birgönül M. T., Second Prize Winner of Best Thesis Award, European Society Of Construction Law, October 2016  
Dikmen Toker İ., Birgönül M. T., 2006-2007 Academic Year METU Best Thesis Award, Prof. Dr. Mustafa N. Parlar Eğitim Ve Araştırma Vakfı, May 2008  
Birgönül M. T., Dikmen Toker I., Budayan C., The 'Rod Howes' Commemorative Award winner, 23Rd Annual Arcom Conference, September 2007  
Birgönül M. T., Outstanding Academic Performance Prize, Middle East Technical University, December 2000  
Birgönül M. T., Outstanding Performance in Teaching, Prof. Dr. Mustafa N. Parlar Eğitim Ve Araştırma Vakfı, December 1998  
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## **Non Academic Experience**

METU  
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