



Y. CENGİZ TOKLU

- Istanbul Aydin University, Professor of Civil Engineering
- Founding member, TUSREC, Turkish Space Research Consortium
- Member, Technical Committee on Space Engineering and Construction, Aerospace Division (ASD), American Society of Civil Engineers (ASCE)
- Board Member, The Moon Society
- Member, Turkish Constructional Steel Association (TUCSA)
- Member, Academic Council, Marmara Foundation

Mobile: (90) 533 689 41 32 E-mail: cengiztoklu@gmail.com web: <https://cengiztoklu.com>

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PERSONAL INFORMATION

- Birth: Ankara, Turkey, July 5th, 1946
- Marital status: Married, two children
- Citizenship: Turkish
- Phone: Mobile (+90) 533 689 41 32 e-mail: cengiztoklu@gmail.com

LinkedIn: <https://www.linkedin.com/in/y-cengiz-toklu-3787805/>

Google Scholar: <https://scholar.google.com.tr/citations?user=JkzvARkAAAAJ&hl=en&oi=ao>

Face Book: <https://www.facebook.com/cengiztoklu>

ORCID: <https://orcid.org/0000-0002-1550-1911>

Scopus ID: 6602550484

TÜBİTAK ID: TBTK-0008-1296

EDUCATION

- Dr. Ing., Institut de Mecanique Theorique et Appliquée, Faculté des Sciences, Université Paris VI (Pierre et Marie CURIE), Paris, France, 1976.
Thesis: Contribution a l'étude des mortiers des graves traitees aux liants hydrauliques et aux liants mixtes en vue de la reduction de leur fissuration de retrait. Supervisor: Professor R. Siestrunck
Degree: Tres honorable
- M.S. in Civil Engineering, Middle East Technical University, (METU), Ankara, Turkey, 1969. Thesis: On the stability of bars with one-sided constraints. Supervisor: Professor Murat Dikmen
- B.S. in Civil Engineering, METU, Ankara, Turkey, 1967

LANGUAGES

Turkish, English, French

ACADEMIC AND PROFESSIONAL EXPERIENCE

- Professor; Civil Engineering Department, Faculty of Engineering. Istanbul Aydin University, Istanbul, Turkey, 2024 – .
- Professor; Civil Engineering Department, Faculty of Engineering and Architecture. Istanbul Beykent University, Istanbul, Turkey, 2018 – 2024
- Professor; Civil Engineering Department, Faculty of Engineering, Member of the Administrative Board of the Faculty of Engineering, Okan University, Istanbul, Turkey, 2016 – 2018
- Professor; Head, Civil Engineering Department, Member of the Administrative Board of the Faculty of Engineering, Bilecik Şeyh Edebali University, Bilecik, Turkey, 2013 – 2016.
- Acting Dean of the Faculty of Arts and Industrial Design; Member of Senate of the University, Member of Administrative Board of the University, Bilecik Şeyh Edebali University, Bilecik, Turkey, 2014 – 2016.
- Visiting Professor; Department of Civil Engineering and Architecture, Illinois Institute of Technology, Chicago, USA, June 2014 – September 2014.

- Professor; Acting Dean of Faculty of Engineering, Member of Senate of the University, Member of Administrative Board of the University, Chairman of the Administrative Board of the Faculty of Engineering, Bayburt University, Bayburt, Turkey, 2012 – 2013
- Professor; Head of the Department of Civil Engineering, Istanbul Aydin University, Faculty of Engineering and Architecture, Istanbul, Turkey, 2012 –2012
- Professor; Founding Head of the Department of Civil Engineering Yeditepe University, Faculty of Engineering and Architecture, Member of the Administrative Board of the Faculty, Istanbul, Turkey, 2008 – 2012
- Head, Scientific Council, Turkish Science Centers Foundation, Istanbul, Turkey; 2006 - 2020
- Associate Professor; Founding Head of the Mechatronics Engineering Department; Bahçeşehir University, Istanbul, Turkey, 2005– 2007
- Associate Professor; Head, Civil Engineering Department; Acting Head, Computer Engineering Department; Vice Dean, Faculty of Engineering; Cyprus International University, Lefkosa, Turkish Republic of Northern Cyprus, 2004 – 2005
- Assistant Professor, Vice Chair, Civil Engineering Department, Eastern Mediterranean University, Magosa, Turkish Republic of Northern Cyprus, 1998-2004
- Advisor to the General Directorate of Highways through DELCAN-DAP Joint Venture, 1992-1997
- Founder and associate of TVT Engineering Ltd., 1992- 2000
- Construction Group Manager, Middle East Technical University PARLAR Foundation, Ankara, 1992-1995
- Founder and associate of PMT Co. Inc., 1991- 1998
- Technical Director, Bayindir Construction Co., Izmir, 1990-1991
- Cost and Schedule Director, Kutlutas-Dillingham Joint Venture, Izmir, 1988-1990
- Associate, General Director, Private Works in Construction, Consultancy and Computer Services, 1986-1988
- Technical Director, HB International Construction Co. Inc., Istanbul, 1985-1986
- Technical Director for the Design of the Second Bosphorus Bridge (Fatih Sultan Mehmet Bridge) and the Peripheral Motorways, Head of Computer Department, Freeman Fox and Partners - BOTEK Technical Consultancy Co. Inc. Istanbul, 1984-1985
- Director of Istanbul Office, Technical Director for the Design of the New Galata Bridge, Head of Computer Department, Mott, Hay and Anderson - GAMB Engineering and Consulting Company Ltd., Istanbul, 1983-1984
- Head of Formwork Factory Design Team, Head of Computer Department, SANTA Construction and Industry Co. Inc., Istanbul, 1982-1983
- Assistant Professor, Department of Engineering Sciences, METU, Ankara, 1976-1982
- Vice Chair, Department of Engineering Sciences, METU, Ankara, 1977-1979
- Researcher, Assistant, Laboratoire Central des Ponts et Chaussees, Paris, France, 1973-1976
- Researcher, Institut Supérieur des Matériaux et de la Construction Mécanique, Saint Ouen, France, 1970-1973
- Assistant, Instructor, Civil Engineering and Engineering Sciences Departments, METU, Ankara, 1967-1970
- Designer, Kiska Design Office, Ankara, 1966-1967

DESIGN AND CONSULTANCY EXPERIENCE

- Soma-B Thermal Power Plant mat foundation calculations with two different second order methods and specially prepared programs. / Turkey Electricity Authority / HES Co. Ltd./ Ankara, 1977
- Consultancy for Istanbul - Izmit motorway/ General Directorate of Highways / DEA Consultancy Co. / Istanbul, 1977
- Ceyhan Fertilizer Factory wharf and conveyor system, solutions about frames and 3-dimensional trusses /Toros Fertilizer and Chemistry Industry Co. Inc./ Sonar Engineering Co. Inc./ Istanbul, 1981 (Revision, 1983)
- Batikoy Satellite Town for 50 000 Inhabitants, computer aided analysis of tower blocks with interacting shear walls and real and fictive frames using specially prepared programs / Sinankent Construction Tourism and Trade Co. Inc / Sonar Engineering Co. Inc. / Istanbul, 1982
- Computer analysis of the existing Antalya Carbide Factory for reinforcing purposes / Etibank / Sonar Engineering Co. Inc./ Istanbul, 1983
- Mazidagi Semikhan Primary Concentration Plant computer analysis of conveyor support systems and transfer building frames / Etibank / Sonar Engineering Co. Inc./ Istanbul, 1983
- Preliminary statical calculations of Ankara Sheraton Hotel / Ahmet Hattat and Brothers / GAMB Co. Ltd. / Istanbul, 1983
- New Galata Bridge, a 367m long pontoon bridge with sidewise opening section at the middle, Head of the Turkish design team / General Directorate of Highways / Mott, Hay and Anderson International Ltd.- GAMB Co. Ltd./ Istanbul, 1983
- 2nd Bosphorus Highway Crossing (Fatih Sultan Mehmet Suspension Bridge) and Peripheral Roads Technical Director, Head of the Turkish Design Team / General Directorate of Highways / Freeman Fox and Partners - BOTEK Technical Consultancy Co. Inc. / Istanbul, 1984 - 1985
- Bakirkoy - Bahcelievler Transportation Planning and design of two bridges with prestressed beams, Technical Director / Bakirkoy Municipality / BOTEK Technical Consultancy Co. Inc. / Istanbul, 1984 - 1985
- Statical design of various buildings, a hotel, a highway bridge (four spans, piled foundations, in-situ concrete, very heavy industrial loads for the construction of Hamitabat Power Plant, Lüleburgaz), private, 1985 - 1988.
- Restoration project of an historical tunnel, Abrahampasa Tunnel, Beykoz Istanbul, private, 1986
- Computerized follow up of the design and construction of Izmir - Aydin Motorway and Izmir-Çesme Motorway. Scheduling by using PrimaVera software / 1988-1992
- Designs by TVT / Grade separated interchanges in Izmir (Bozyaka Bridge, named Kostence Bridge later), and Adana,
- Design by TVT/ Ikizdere-Balçova section of the peripheral motorway in Izmir / Kutlutaş – Dillingham Joint Venture / State Highways Authority
- Design by TVT / Feasibility studies of Izmir-Salihli and Izmir-Bursa Motorways for OTAK Construction Co.
- Supervisor for the design of Imrahor Viaduct, part of the Mamak – Çankaya peripheral road of Ankara,
- Supervisor for ANKARAY light railed transport system, designs of various infrastructural and superstructural works / 1991-1995.
- Consultancy for Izmit Bay Crossing and Gebze - Orhangazi Motorway / General Directorate of Highways / 1992-1995
- Consultancy for Izmir Metro, passage through KonakPlaza / Municipality of Izmir / 1994
- Design of Infrastructural Works of Belkent, Çesme, Izmir / 1996-1997
- Design of Urla - Iskele Dual Road / Municipality of Urla / 1996-1997

- Design of Entegre Medical Appliances Factory, Izmir, 1996-1997

CONSTRUCTION EXPERIENCE

- Leading and planning construction of 45 villas, Istanbul / HB Construction Co. / 1986
- Construction of Burhaniye sewage sea discharge facility / Iller Bankasi / 1984-88
- Water supply of a village and a group of villages, Çatalca and Sile, Istanbul, / Directorate of Village Services / private / 1987 - 1988
- Drainage works of Mahmutbey - Kinali Motorway / General Directorate of Highways / IGL - STFA Joint Venture / private (Subcontractor) / 1987
- Izmir - Aydın Motorway / Scheduling and Planning Director / Kutlutas Construction Co. / 1988-1990
- Izmir - Çesme Motorway / Technical Director / Bayindir Construction Co. / 1990 -1991
- Supervisor for the construction of Imrahor Viaduct, ANKARAY light railed transport system, 1992 - 1994
- Construction scheduling for various firms (AFA, ERAL, ÜSTAY, SEGA, ...) / TVT / 1992 – 1998
- Supervision of Entegre Medical Appliances Factory, Izmir, 1997

PROGRAMMING AND INFORMATICS EXPERIENCE

- Directing computer centers of SANTA, GAMB, BOTEK, Kutlutas-Dillingham JV, BAYINDIR, PMT and TVT
- Computer coordinator of Engineering Sciences Department, METU, 1979-1982, Liaison to the Central University Computer and Director of Departmental computer laboratory.
- Computer Committee of the Civil Engineering Department, EMU, 1998-2004
- Scientific and business programs prepared including
 - * A payroll program and an accounting program (dealing with 2000 employees using a 64 KB RAM computer, with two floppy drivers, 360 KB each)
 - * CPM/PERT program,
 - * Frame, grid, truss and continuous beam programs using finite element techniques and active column profile method,
 - * Various reinforced concrete design programs for prestressed beams, retaining walls, sheet pile walls, culverts, underpasses etc.
 - * A program for lateral analysis of structural systems with interacting shear walls and frames,
 - * A program for determination of composite steel reinforced concrete section properties,
 - * Programs for solving linear systems of equations.
 - * An optimization program using linear programming technique,
 - * A mat foundation solution program,
 - * A series of programs for non - linear analysis of beams and frames,
 - * An aggregate blending program,
 - * Programs for transformation of linear viscoelastic functions,
 - * Several programs about eigenvalue problems, curve fitting, solution of systems of differential equations, and many other sorts of numerical analysis problems,

- Preparation of the software for the first Book Club in Turkey
- Use of structural analysis packages like SAP and ETABS
- MS Project, Primavera and Primavera Vision Programs for Scheduling
- Preparation of a software package called ENSOFT for cross - section calculations and plots of motorways
- Preparation of a construction project scheduling program using Genetic Algorithms based on start dates as state variables
- Preparation of an aggregate blending program using Genetic Algorithms
- Preparation of several software packages on meta-heuristic algorithms like random search, simulated annealing, genetic algorithms, big-bang and big-crunch algorithm
- Creation of the method Total Potential Optimization using Metaheuristic Algorithms (TPO/MAs) for structural analysis and its generalized version Finite Element Method with Energy Minimization (FEMEM) which broadens the application area of the well-known Finite Element Method (FEM).

ACADEMIC ADMINISTRATIVE DUTIES

Vice Head of Dept.	METU Dept of Engineering Sciences / 1977-1979
Vice Head of Dept.	EMU Civil Engineering Department / 1998-1999
Acting Dean	CIU Faculty of Engineering / Sept. 2004- Oct. 2004
Vice Dean	CIU Faculty of Engineering / Nov. 2004 - 2005
Head of Dept.	CIU Computer Engineering Department / 2004 – 2005
Head of Dept.	CIU Civil Engineering Department / 2005 – 2005
Head of Dept. (Founder)	BŞU Mechatronics Engineering Dept. / 2005 – 2007
Head of Dept. (Founder)	7TU Civil Engineering Dept. / 2008 – 2012
Head of Dept.	IAU Civil Engineering Dept. / 2012 – 2012
Head of Dept.	ByU Civil Engineering Dept / 2012 – 2013
Dean, Board M., Senate	ByU Faculty of Engineering / 2012 – 2013
Head of Dept.	BŞEU Civil Engineering Dept. / 2013 – 2014
Dean, Board M., Senate	BŞEU Faculty of Arts and Ind. Design / 2014 - 2016
Fac.Board M., Ethical Cons.	OKAN Civil Engineering Dept. / 2016 – 2018

(BŞU: Bahçeşehir Univ.; ByU: Bayburt University; BŞEU: Bilecik Şeyh Edebali Univ.; CIU: Cyprus International Univ., EMU: Eastern Mediterranean Univ., IAU: Istanbul Aydın University, METU: Middle East Technical Univ., OKAN: Okan University, 7TU: Yeditepe University)

THESES SUPERVISED

MS Theses

- Farsialiabad, Farsin, “Scheduling of Parallel Activities Using Genetic Algorithms”, Eastern Mediterranean University, 2001
- Hatay, Tolga, “Simulated Annealing Applied to Optimization of Trusses”, Eastern Mediterranean University, 2001
- Eren, Mehmet, “Finite Element Method Analysis of Part of Bellapais Monastery”, Eastern Mediterranean University, 2001

- İremilci, Işıl, “Linear Programming Applied to Aggregate Blending”, Eastern Mediterranean University, 2002 (Co-supervisor)
- Ghani, M. H. “Simplified Methodology for Rational Unified Process Using Unified Modeling Language”, Cyprus International University, 2004
- Toklu, Şakir Çağlar “Nonlinear Displacement Analysis of Trusses Using Ant Colony Optimization”, Bahcesehir University, 2008 (Co-supervisor)
- Zorlu, Hüseyin “Kalıcı Bir Ay Üssü Tasarlanması, <Design of a Sustainable Lunar Base>” Havacılık ve Uzak Teknolojileri Enstitüsü, Hava Harp Okulu Komutanlığı, <Aeronautics and Space Technologies Institute of Turkey >, 2009
- Özveren, İsmail Hakkı “Uzak Alanındaki Çalışmalar ve Türkiye’nin Stratejisi<Space Research and Strategy of Turkey>”. Havacılık ve Uzak Teknolojileri Enstitüsü, Hava Harp Okulu Komutanlığı,<Aeronautics and Space Technologies Institute of Turkey >,Temmuz 2009
- Anakök, Serkan “Uzak Adamı Yetiştirilmesi ve Gerekli Tesisler <Astronaut Training and Necessary Facilities>”.Havacılık ve Uzak Teknolojileri Enstitüsü,Hava Harp Okulu Komutanlığı, <Aeronautics and Space Technologies Institute of Turkey >, Temmuz 2009
- Kuvvet Melike “Regolit ve Ay Yapılarında Kullanımı <Regolith and Its Use in Lunar Constructions>”. Havacılık ve Uzak Teknolojileri Enstitüsü, Hava Harp Okulu Komutanlığı, <Aeronautics and Space Technologies Institute of Turkey>, Temmuz 2009
- Hatipoğlu, Yavuz Selim, “Sönmüş kireç ve çimento harçlarının zeolit ve toz haline getirilmiş Bayburt Taşları ile mekanik özelliklerinin iyileştirilmesi [The effect of zeolite and powdered Bayburt Stone on lime and cement mortars]”, Bayburt Üniversitesi, Mayıs 2014
- Çerçevik, A. E. “Elastik konsol kirişlerin büyük deformasyon analizi” <Large deformation analysis of elastic cantilevers>, Bilecik Şeyh Edebali Üniversitesi, Mayıs 2014
- Şahinöz, Melih, “Otomatik yapı üretimi için en uygun malzemelerin belirlenmesi <Determination of the most suitable materials for automated construction>”, Bilecik Şeyh Edebali Üniversitesi, 2016
- Nur Eroğlu. İstanbul Üniversitesi – Cerrahpaşa.. Metasezgisel Algoritmalar Kullanan Toplam Potansiyel Enerji Minimizasyonu Yöntemi ile Yapı Sistemlerinin Analizi <Analysis of Structural Systems by Total Potential Energy Minimization Method Using Metaheuristic Algorithms> Eş danışman. 2020-
- Batuhan ŞANLI, Eskişehir Osman Gazi Üniversitesi. “Kafes Sistemlerin Enerji Minimizasyonu ile Sonlu Elemanlar Analizi için bir Python Kütüphanesi hazırlanması <A Python Library for Finite Element Analysis of Truss Systems with Energy Minimization>”, Eş danışman. 2021-2023
- Umut Emre CAN, Eskişehir Osman Gazi Üniversitesi. "Katı Cisimlerin Enerji Minimizasyonu ile Sonlu Elemanlar Analizi. <Finite Element Analysis of Solids with Energy Minimization>", Eş danışman. 2021- 2023
- Doğuşcan ARAS, Eskişehir Osman Gazi Üniversitesi. “Kafes sistemlerde aşamalı göçme analizi. <Collapse analysis of truss systems>”, >, Eş danışman. 2023-2024

PhD Theses Jury Membership and Examinership

- Bekdaş, Gabriel "Eksenel Simetrik Kısa Silindirik Duvarların Analizi [Analysis of Axially Symmetrical Short Cylindrical Walls]", Istanbul University, 2011
- Temür, Rasim, Istanbul University, 2012
- Aydın, Recep "İnce Cidarlı Sinüzoidal Gövdeli Çelik I Eleman Birleşimlerinin Performansı", Istanbul Technical University, 2014.
- Guha, Himadri "A framework for measuring construction performance and its risks in Kolkata, India", West Bengal University of Technology, Kolkata, India, *Continuing*
- Aylin Ece Kayabekir. "Metasezgisel Algoritmalar ile Optimize Aktif Ayarlı Kütle Sönümleyicileri ile Yapıların Kontrolü < Control of Structures by Active Tuned Mass Dampers Optimized via Metaheuristic Algorithms > Member of the PhD Follow-up committee, 2019 - 2021, İstanbul University (Cerrahpaşa) *Completed*

PROFESSIONAL AFFILIATIONS

- Turkish Chamber of Civil Engineers
- Turkish Informatics Society (*)
- Turkish - French Association of Engineers, Secretary of Izmir branch (*)
- Turkish - French Association of Engineers, Istanbul branch, Member of Administrative Board (*)
- Technical Commission of Izmir Branch of Chamber of Civil Engineers (*)
- Commission of Use of Computer Programs for Structural Design, Ministry of Settlement and Turkish Chamber of Civil Engineers (*)
- American Concrete Institute (ACI) (*)
- Yollar Turk Milli Komitesi (Turkish Road Association) (*)
- Society of Rheology (*)
- American Society of Civil Engineers (ASCE)
- ASCE Structural Engineering Institute, Emerging Computing Technologies Committee
- ASCE Global Center of Excellence in Computing
- European Group for Intelligent Computing in Engineering (EG-ICE)
- Türkiye Köprü ve İnşaat Cemiyeti (Turkish Association for Bridge and Structural Engineering) (*)
- IABSE (International Association for Bridge and Structural Engineering) (*)
- Member of the Commission for Preparation of the 4th Five Year Plan Civil Engineering Works in Turkish Republic of Northern Cyprus (*)
- European Chapter of Metaheuristics (EU/ME)
- Founding member of the non-profit corporation The Space Resources Roundtable, Inc. (*)
- Founding Executive Committee of the Technopark of Northern Cyprus (*)
- Chair, Scientific Council, Foundation of Turkish Science Centers (*)
- Member, Board of Trustees, Foundation of Turkish Science Centers (*)

- Member, Academic Council, Marmara Foundation
- Member, Turkish Constructional Steel Association (TUCSA) [Türk Yapısal Çelik Derneği, (TYÇD)]
- Member of European Council for Computing in Construction
- Member of the Administrative Board, The Moon Society, < <https://www.moonsociety.org/>>
- Member, Technical Committee on Space Engineering and Construction, Aerospace Division (ASD), American Society of Civil Engineers (ASCE)
- Founding member, TUSREC, Turkish Space Research Consortium
- Member, Academic Editorial Board, International Journal of Aerospace Engineering.

(*): Not continuing or completed

SCHOLARSHIPS AND AWARDS

- Won American Field Service (AFS) examination at high school
- Full Turkish Scientific and Technological Research Council (TUBITAK) scholarship for M.S. studies
- Full scholarship for the doctoral studies by TUBITAK
- Full Scholarship for the doctoral studies by French Government
- The "Tres honorable" degree in obtaining Ph.D. degree
- 8 incentive awards for scientific publications by TUBITAK
- Paper presented in ACE2002 has been chosen to be one of the best 20 papers and is reprinted in the journal ARI, Bulletin of Istanbul Technical University
- Listed in “Who’s Who in Computational Science and Engineering 2005-2006, Saxe-Coburg Publications, 2006, ISBN 1-874672-18-0

SEMINARS, INVITED AND KEYNOTE SPEECHES

- Congress Chair, ICCM 2026, 17TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL METHODS, AUGUST 02-05, 2026, ISTANBUL <https://www.2025-iccm.com/>
- Keynote Speech (Online), “An improved form of FEM, Finite Element Method with Energy Minimization, FEMEM, to deal with problems that cannot be solved by FEM”, International conference on Innovations in Infrastructure and Construction Engineering (ICINFRA2026) <https://optimumresearchmeetings.com/conferences/infrastructure>, Jun 15, 2026
- Invited Speech, “Research on lunar habitations performed in Türkiye”, Turkish-Japan Workshop on Lunar Agriculture, Yaşar University, May 5, 2026, İzmir
- Speech. Workshop on BAP project No: 2025/04, “Dünya Dışından Getirilen Tüm Toprakların İleri Düzeyde Araştırmalara Temel Teşkil Etmek Üzere Benzerlerinin Dünyada Üretilmesi <Production of Simulants of all kinds of regoliths brought from space bodies for supporting advanced research>”, Istanbul Aydın University, April 13, 2026, Istanbul

- Keynote Speech, 8th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2024, SEPTEMBER 6 TO 8, 2024 - ANTALYA, TURKIYE <<https://3dprintturkey.org/>>
- Keynote Speech, Global Meet on 3D Printing and Additive Manufacturing, GM3DPRINT2024, OCTOBER 01-03, 2024, ZURICH, SWITZERLAND <<https://www.primemeetings.org/2024/3dprinting-additive-manufacturing>>
- Seminar, "Use of cable-strut structures on space bodies", 2024 Lunar Development Conference (Online) The Moon Society, 20-21 July 2024 <https://www.moonsociety.org/wp-content/uploads/2024/05/LDC2024-BookofAbstracts_prepublication-May27.pdf>
- Seminar, General overview on water existence in lunar regolith, Together with I. Bay and Y. Kaya, 2024 Lunar Development Conference (Online) The Moon Society, 20-21 July 2024 <https://www.moonsociety.org/wp-content/uploads/2024/05/LDC2024-BookofAbstracts_prepublication-May27.pdf>
- Çalıştay, “Mesleğimizin Geleceği”, TMMOB İnşaat Mühendisleri Odası, İstanbul Şubesi, Mesleğimiz Ve Geleceğimiz Çalıştayı, 21 Ocak 2024 Pazar
- Seminar, "Uzay İnşaat Mühendisliği - En eski mühendislik dalının yeni dünyalarda uygulamaları", İnşaat Mühendisleri Odası, İstanbul Şubesi Karaköy Hizmet Binası Harun Karadeniz Konferans salonu, 14/12/2023 19:00
- Plenary Speaker, "Applications of Metaheuristic Methods in Engineering", CONFERENCE ON MATHEMATICS AND COMPUTERS IN SCIENCE AND ENGINEERING, Ierapetra Beach, Crete, Greece, August 25-27, 2023, <http://2023.macise.com/> CANCELED
- Invited Speaker, INTERNATIONAL MOON DAY CELEBRATION, ULUSLARARASI AY GÜNÜ, Aya ilk insanlı gidişin yıldönümü, 20 TEMMUZ 2023, İngilizce 16:00 Ben Smith, Türkçe 19:00 Cengiz Toklu, İsveççe 20:00 Niklas Jarvstrat, <https://www.linkedin.com/feed/update/urn:li:activity:7086086066931179520/>
- Keynote Speaker. Global Experts Meet on Civil, Architectural and Environmental Engineering (GEMCAE22), June 16-18, 2022, in Rome, Italy. İPTAL EDİLDİ, CANCELED <https://www.mscharconferences.com/GEMCAEE2022/22/home.html>
- Plenary Speaker, "21th International Conference on Hybrid Intelligent Systems", 14-16/12/2021, <http://www.mirlabs.org/his21/speakers.php>
- Seminar. “Production of lunar soil simulant in Turkey”. Kadir Has University, Istanbul, 19.11.2021
- Invited Speaker. One-Week Online Faculty Development Program on “Emerging Optimization Techniques for Engineering Applications” (27th Sept. To 01st Oct, 2021) Rajarambapu Institute of Technology, Rajaramnagar

- Seminar. "Genie Civil sur la Lune et au dela" Association Franco-Turque d'Ingenieurs, Istanbul, 23.09.2021
- Invited Speaker at Space Days 4, Organized by the Aeronautics and Space Club of Gebze Technical University, 14-15 March 2020, Cayirova, Istanbul. *DELAYED DUE TO CORONA PANDEMIC*
- Keynote Speaker at 5th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2020, 04 - 06 June 2020, KHARKIV, UKRAINE. <http://3dprintturkey.org/>. *DELAYED DUE TO CORONA PANDEMIC*
- Keynote Speaker at "6th International Conference on Harmony Search, Soft Computing and Applications (ICHSA 2020), 22-24 April 2020, Istanbul, Turkey" <https://ichsa.istanbulc.edu.tr/en/>
- Keynote speech. Congress chairman. "Space habitations, technical aspects and international cooperation", 7th International Conference on Earth Science, Climate Change & Space Technology. Rome, Italy on May 22-23, 2019.
- Invited speaker. "Metaheuristic Algorithms and Structural Mechanics Problems", 8th International Conference on ENGINEERING MECHANICS, STRUCTURES, ENGINEERING GEOLOGY (EMESEG '15), Konya, Turkey, May 20-22, 2015.
- Seminar. "Applications of Meta-heuristic Algorithms to Civil Engineering Problems", Illinois Institute of Technology, Chicago, IL, USA, Department of Civil, Architectural, and Environmental Engineering, 09.09.2014.
- Seminar. "Metaheuristic Algorithms and Engineering Applications" Bayburt University, Faculty of Engineering, 03.12.2012.
- Invited Speaker. Member of the Scientific Committee. "Increasing Role of Meta-heuristics in Solving Engineering Problems" Mathematics in architecture and civil engineering design and education, Pecs, Hungary, 26-28 May 2011
http://matep.pmmik.pte.hu/en/matep_Invited_speakers
http://matep.pmmik.pte.hu/data/2011/0301/820/abstract_YCToklu.pdf
- Invited Speaker. "Aggregate Blending as a Multi-Objective Optimization Problem" Advanced Concrete, Aggregates and Asphalt Conference, Istanbul 08-09 March 2011
- Scientific and Technical Committee Member. "TERRESTRIAL BENEFITS OF RESEARCH ON EXTRATERRESTRIAL CONSTRUCTIONS" United Nations Committee of Peaceful Uses of Outer Space, 48th Meeting, 7-18 February 2011
http://www.tubitak.gov.tr/tubitak_content_files/spaceworkshop/presentations/Toklu.Cengiz.pdf
- Scientific and Technical Committee Member. "TERRESTRIAL BENEFITS OF RESEARCH ON EXTRATERRESTRIAL CONSTRUCTIONS" United Nations Committee of Peaceful Uses of Outer Space, 48th Meeting, 7-18 February 2011
http://www.tubitak.gov.tr/tubitak_content_files/spaceworkshop/presentations/Toklu.Cengiz.pdf

- Invited Speaker. “Applications of Metaheuristic Methods in Engineering”, Istituto Dalle Molle di Studi sull'Intelligenza Artificiale (IDSIA), Manno, Switzerland, 21 October 2010.
- “FROM GLOBALIZATION TO SPATIALIZATION” United Nations / Turkey / European Space Agency Workshop on Space Technology Applications for Socio-Economic Benefits Hosted by The Scientific and Technological Research Council of Turkey (TUBITAK), 14-17 September 2010, Istanbul, Turkey
- Keynote Speech. “Increasing Role of Meta-heuristics in Solving Engineering Problems”, Sixth International PhD & DLA Symposium, University of Pécs, Pollack Mihály Faculty of Engineering, 2010,
- “A LOOK TO THE SOCIAL AND HISTORICAL ASPECTS OF SPACE RESEARCH” United Nations Committee of Peaceful Uses of Outer Space, Scientific and Technical Committee 47th Meeting, 8-19 February 2010, Vienna, Austria.
<http://www.oosa.unvienna.org/pdf/pres/stsc2010/tech-03.pdf>
DOI: 10.13140/2.1.3470.5927
- “TECHNICAL ASPECTS OF SPACE CONSTRUCTIONS AND BASES” United Nations Committee of Peaceful Uses of Outer Space, Scientific and Technical Committee 47th Meeting, 8-19 February 2010, Vienna, Austria.
<http://www.oosa.unvienna.org/pdf/pres/stsc2010/tech-08.pdf>
DOI: 10.13140/2.1.4781.3121
- Invited Speaker. “Optimization in Structural Analysis and Design”, IUPUI, Indiana University and Purdue University at Indianapolis, 5 May 2009
- Keynote Speech. “Solving structural systems by total potential optimization” Fourth International PhD & DLA Symposium, University of Pécs, Pollack Mihály Faculty of Engineering, 20 Oct 2008,
- Seminar. “Space Civil Engineering”, Cyprus International University, Northern Cyprus, April 15, 2005
- Seminar. “Metaheuristic Optimization Techniques with Engineering Applications”, Cyprus International University, Northern Cyprus, I – General Principles of Optimization, March 1, 2005; II – Metaheuristic Optimization Techniques, March 8, 2005; III – Engineering Applications, March 15, 2005.
- Invited Speaker. "Structural Analysis Through Energy Minimization", Rutgers University, New Jersey, USA, May 28, 2004
- Invited Speaker. "Structural Analysis Through Energy Minimization", Columbia University, New York, USA, May 27, 2004
- Seminar. "Yapıların geometri ve malzeme yönünden doğrusal olmayan davranışlarının incelenmesi için yeni bir yöntem (A New Method for the Analysis of Geometrically and Materially Nonlinear Structures) ", Istanbul Technical University, May 9, 2002

- Seminar. "A New Method in Computational Structural Analysis", Eastern Mediterranean University, Northern Cyprus, December 12, 2001
- Seminar. "Evolutionary Algorithms - Applications to Civil Engineering", Eastern Mediterranean University, Northern Cyprus, March 21, 2001 (together with Farzin Farsialiabad and Tolga Hatay)
- Seminar. "Race Against Earthquakes", Eastern Mediterranean University, Northern Cyprus, August 17, 2000
- Invited Speaker. "Design and Construction of Lunar Bases", Illinois Institute of Technology, Chicago, USA, March 3, 2000
- Seminar. "Catastrophic 1999 Earthquakes in Turkey", Eastern Mediterranean University, Northern Cyprus, December 8, 1999

COURSES OFFERED

- Engineering Mechanics (1, METU, BSU)
- Statics (1, METU, EMU, BSU, IST)
- Strength of Materials (1, METU, EMU, ByU, OKAN, BeyU)
- Advanced Strength of Materials (1, EMU)
- Structural Systems (2, IYTE)
- Structural Analysis I (1, CIU, EMU, BŞEU)
- Structural Analysis II (1, CIU, BŞEU)
- Steel Structures (1, BeyU)
- Energy Methods in Structural Analysis (2, ByU, BŞEU)
- Reinforced Concrete (1, EMU, 7TU, OKAN)
- Design and Construction of Special Structures (2, EMU)
- Introduction to Earthquake Engineering (1, BŞEU)
- Retrofitting and Reinforcing Damaged Structures (2, BŞEU)
- Engineering Rheology (1, 2, 3, METU)
- Numerical Methods (with introduction to FORTRAN) (1, 2, METU)
- Numerical Methods for Civil Engineers (BŞEU 2)
- Mathematics for Engineers (1, METU)
- Mathematical Topics for Engineers (2, 3, EMU)
- Introduction to Computer Usage (1, EMU)
- Computer Applications (1, EMU)
- Computational Methods in Civil Engineering (2, EMU)
- Metaheuristic Applications in Engineering (1, 2, CIU)
- Advanced Optimization (2, BSU, IST)
- Optimization Techniques in Engineering (1,2, ByU, BŞEU)
- Evolutionary Algorithms (1, 2, 3, 7TU)
- Construction Management (1, DEU)
- Construction Management and Planning (1, CIU, ByU; 2, ByU)
- Project Management (3, BŞEU)
- Engineering Economy (1, EMU)

- Systems Engineering (2, 3, EMU)
- Introduction to Space Civil Engineering (1, EMU)
- Space and Humans (1, BSU)
- Space Bases and Structures, Design and Construction (2, ASTIN)
- Introduction to Civil Engineering (1, 7TU, ByU)

Notes: 1: Undergraduate, 2: Graduate, 3: Post graduate

ASTIN: Aeronautics and Space Technologies Institute, Istanbul, Turkey

BŞEU: Bilecik Şeyh Edebali University

BSU: Bahçeşehir University, İstanbul, Turkey

ByU: Bayburt University, Bayburt, Turkey

BeyU: Beykent University, Istanbul, Turkey

CIU, Cyprus International University, Lefkosa, Northern Cyprus

DEU: Dokuz Eylül University, Izmir, Turkey

EMU: Eastern Mediterranean University, Gazimagusa, Northern Cyprus

IST: Istanbul University, Istanbul, Turkey

IYTE: Izmir Institute of Advanced Technologies, Izmir, Turkey

METU: Middle East Technical University, Ankara, Turkey

OKAN: Okan University, Istanbul, Turkey

7TU: Yeditepe University, Istanbul, Turkey

CONGRESSES ORGANIZED

Session Organizer (together with Pezhman Mardanpour) “Inflatable and Deployable Structures: Habitable Applications for Space and Planetary Environments” ASCE Earth & Space Conference 2024, April 15-18, 2024, Miami, Florida, USA; <https://earthspace2024.fiu.edu>

Bilim ve Danışma Kurulu Üyesi, Oturum Başkanı <Scientific Committee Member, Session Chair>, Mühendislikte Bilgisayar Uygulamaları ve Teknolojik Gelişmeler Sempozyumu <Computer Applications in Engineering and Technological Advances Symposium>, TGS, 22-23 Aralık 2023, Ankara, Türkiye, <http://tgs.imo.org.tr/>

Scientific Committee Member. Session Chairman. 7th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2023, October 25 to 27, 2023 - Istanbul, Türkiye, <https://3dprintturkey.org/>

Organizer (together with G. Bekdaş and S. M. Niğdeli) of the research topic “Metaheuristics, Artificial Intelligence and Numerical Approaches in Structural Mechanics”, 2022, through Frontiers.org. < <https://www.frontiersin.org/research-topics/19457/metaheuristics-artificial-intelligence-and-numerical-approaches-in-structural-mechanics> >

Scientific Committee Member, 1st. Int. Congress on Artificial Intelligence and Data Science ICADA2021, 26-28 November 2021, Izmir, Turkey. <https://icada2021.com/bilimsel-kurul>

Organizer (together with G. Bekdaş and S. M. Niğdeli) of the mini symposium “Metaheuristics and Numerical Analysis in Engineering” within “19th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2021), Rhodes, Greece, 20-26 September 2021” <<http://icnaam.org/>> <http://icnaam.org/sessions_minisymposia.htm>

Member of the Executive Board. 5th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2020. 04 - 06 JUNE 2020, KHARKIV, UKRAINE. <<http://3dprintturkey.org/>>. *CANCELED DUE TO CORONA PANDEMIC*

Scientific Committee Member. “6th International Conference on Harmony Search, Soft Computing and Applications (ICHSA 2020), 22-24 April 2020, Istanbul, Turkey”
<https://ichsa.istanbulc.edu.tr/en/>.

Scientific Committee Member, ICADET 2019, 3rd International Conference on Advanced Engineering Technologies. 19-21 September 2019, Bayburt, Turkey, <http://www.icadet.org/w/>

Scientific Committee Member, Chair in 2 Sessions: Aerospace Structures-1, and Aerospace Structures-2. RAST2019. 9th International Conference on Recent Advances in Space Technologies, "Space for the Sustainable Development Goals", Istanbul, Turkey on 11-14 June 2019, <http://www.rast.org.tr/>

Chairman of the 7th International Conference on Earth Science, Climate Change & Space Technology. Rome, Italy on May 22-23, 2019.

Member of the Executive Committee, Member of the Scientific Committee; 4th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2019. 11-14 April 2019, Antalya, TR, <http://3dprintturkey.org/>

Organizer of the special session "Applications of bioinspired optimization methods to civil engineering problems" and Member of the Program Committee. 8th International Conference on Bioinspired Methods and Their Applications (BIOMA 2018) May 16-18, 2018, Paris, France <https://bioma2018.sciencesconf.org/>

Coorganizer of the mini symposium “Metaheuristic and Numerical Analysis in Engineering”, in 15TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2017), 25-30 September 2017, Thessaloniki, Greece, <http://icnaam.org/>

Scientific Committee Member, 4. Proje ve Yapım Yönetimi Kongresi PYYK 2016 [4th Congress on Project and Construction Management], 3 – 5 Kasım [November] 2016, Anadolu Üniversitesi / ESKİŞEHİR, <http://pyyk2016.anadolu.edu.tr/>

Scientific Committee Member, 4th International Symposium On Innovative Technologies in Engineering and Science (ISITES2016), University of Pécs, Hungary, 1-3 Sept 2016, <http://isites.info/>

Director of the mini-symposium: “MS-035 Application of metaheuristic algorithms to structural design and analysis”, The 7th International Conference on Computational Methods (ICCM2016). Aug. 1-4, 2016, Berkeley, California, U.S.A.,

Scientific Committee Member, The 7th International Conference on Computational Methods (ICCM2016), Aug. 1-4, 2016, Berkeley, California, U.S.A.,

Scientific Committee Member, Tarihte ve günümüzde Bilecik ve çevresi - Uluslararası Sempozyum [International Symposium on Bilecik and surroundings, historically and currently], 20-21 Kasım [November] 2015, Bilecik, Turkey

Scientific Committee Member, 8th International Symposium on Steel Bridges: Innovation & New Challenges 2015 (SBIC-2015), 14-16 September 2015, Istanbul

International Scientific Committee Member, 6th International Conference on Computational Methods (ICCM2015), 14-17 July 2015, Auckland, New Zealand

Scientific Committee Member, RAST2015. 7th International Conference on Recent Advances in Space Technologies, Istanbul, Turkey on 16-19 June 2015

Scientific Committee Member, 3. Proje ve Yapım Yönetimi Kongresi, PYYK 2014 [3rd Congress on Project and Construction Management], 6 – 8 Kasım [November] 2014, Akdeniz Üniversitesi / ANTALYA

International Organization Committee Member, 5th International Conference on Computational Methods (ICCM2014), 28th-30th July 2014, Cambridge, England

Coordinator, “15th EU/ME (the european metaheuristics community) Workshop: Metaheuristics and Engineering, 24-25 March 2014, Istanbul, Turkey. <http://mh.bilecik.edu.tr/>

Co-organizer, “2nd Symposium on Metaheuristic and Numerical Analysis / Engineering Applications”, ICNAAM 2013, 21-27 September 2013, Rodos Palace Hotel, Rhodes, Greece

Co-Chair, 2nd UMKE (National Medical Life Saving Organization) Disaster Symposium, 27 February – 1 March 2013, Istanbul Governor, Istanbul

Scientific Co-Chair, WORLD FORUM – INTERNATIONAL CONGRESS “NATURAL CATAclysms AND GLOBAL PROBLEMS OF THE MODERN CIVILIZATION” - GEOCATAclysm-2011 19-21 September 2011, Istanbul, Turkey

Co-Chair, 1st UMKE (National Medical Life Saving Organization) Disaster Symposium, Yeditepe University, 8 - 9 November 2010, Istanbul

10. Ulaştırma Şurası Karayolları Altyapı Çalıştay Üyesi, Ulaştırma Bakanlığı, Ankara, Türkiye, 27 Eylül – 1 Ekim 2009

Organization Committee; “4th International Conference on Recent Advances in Space Technologies - Space for Developing World”, RAST 2009, 14-16 June 2009, Istanbul, Turkey

Member, Scientific Advisory Council, 5th World Water Forum, Dünya Su Konseyi. 16-22 Mart 2009, Istanbul, Türkiye.

Organization Committee; “3rd International Conference on Recent Advances in Space Technologies - Space for a More Secure World”, RAST 2007, 14-16 June 2007, Istanbul, Turkey

Distinguished Advisory Committee; Rutgers Symposium on Lunar Settlements, 3-8 June 2007, New Brunswick, New Jersey, USA.

Chair person; eduCEE’06 International Workshop on Reform in Civil and Environmental Education, 4-7 October 2006, Bahcesehir University, Istanbul, Turkey

Organization Committee; Aeronautics and Space Education Workshop, ASEW2006, 22-24 June 2006, Istanbul, Turkey

Dr. Toklu was a member of the continuous advising committee of the series of International Congress on Advances in Civil Engineering (2000 – 2004).

ACE2000, 4th International Congress on Advances in Civil Engineering is chaired by Dr. Toklu.

SEMINARS ORGANIZED

Seminars organized by Dr. Toklu at Science Center, Fulya, Istanbul, as the chairman of the Scientific Council of the Turkish Foundation of Science Centers.

27.03.2010 / Ersin Göğüş / Şişliden Evrenin Derinliklerine Bakış <Looking into the depths of the universe from Şişli>

17.04.2010 / Gülden Yılmaz / Grip etkeni influenza virusları, salgınları ve korunmada alınacak önlemler <Influenza viruses, outbreaks and precautions against>

08.05.2010 / Metin Tulgar / Beyin pilleri ve tıptaki uygulamaları <Neuroimplants and their use in medicine>

09.10.2010 / Fikrettin Şahin / Genetik Yapısı Değiştirilmiş Organizma ve Gıdaların İnsan ve Çevre Sağlığı Üzerine Etkileri <Effects of genetically modified organisms and foods on human health and environment>

27.11.2010 / Fuat İnce / Öteki Uzay: Teknoloji Ve Politika <The other space: Technology and politics>

18.12.2010 / Ömür Akyüz / Rölativite, İzafiyet, Görelilik Ne Demektir? <The meaning of relativity>

15.01.2011 / Mustafa Özilgen / Endüstrileşme sürecinde bilgi birikiminin önemi <Importance of knowledge accumulation on the process of industrialization>

26.03.2011 / Fahir Borak / Nükleer Teknoloji : Nedir ve Ne Kadar Güvenliklidir? <Nuclear technology: What it is, and how safe it is>

30.04.2011 / Gülay Altay / Yeni Teknolojiler ve Mühendislikte Etik <New technologies and engineering ethics>

22.10.2011 / Ahmet Ercan / Türkiye'nin Yeraltı Kaynakları <Underground resources of Turkey>

26.11.2011 / Nesrin Yardımcı / Dünyada ve Türkiye'de Çelik Yapılar <Steel structures in Turkey and in the World>

17.12.2011 / Erhan Karaesmen / Sosyo-teknik Bir Olay Olarak Deprem <Earthquake as a socio-technological phenomenon>

17.03.2012 / Ali Nezihi Bilge / Nükleer Tekniklerin Endüstriye Uygulanması <Industrial applications of nuclear techniques>

14.04.2012 / Cengiz Toklu / Uzay Yapıları, Tasarım ve Yapımları <Structures in space, their design and construction>

06.10.2012 / Ahmet Samsunlu / Şehir – Çevre - Yaşam <Town - environment - life>

17.11.2012 / Şükrü Karataş / Yüksek Basınçla Gıdaların Sterilizasyonu <Sterilization of foods under hyperpressure>

08.12.2012 / Veysi Erkan Özcan / CERN ve Higgs'in 25 Asırlık Hikayesi <25-century-long history of CERN and Higgs>

19.01.2013 / Arsev Eraslan / Sayısal Bilim – Özgün Teknoloji Uygulamaları <Numerical science - Original applications of technology>

JOURNAL REFEREE DUTIES, EDITORSHIP

- Guest editor to the Shock and Vibration journal (ISSN 1070-9622) for special issue "Novel time integration algorithms applied to structural dynamics nonlinear problems" together with professors Marcelo Greco (Brasil) and Jie Zhang (China).
- Member of the Editorial Board. Journal of Research in Science, Engineering and Technology
- Havacılık ve Uzay Teknolojileri Dergisi [Journal of Aeronautics and Space Technologies], Member of Editorial Board, Turkey
- The Open Construction & Building Technology Journal, Bentham Journals, Editorial Advisory Board
- Frontiers in Built Environment, Frontiers Media/News/Publishing, Member of Editorial Board
- Frontiers in Built Environment, Frontiers Media/News/Publishing, Editorship for the Research Topic: "Metaheuristics, Artificial Intelligence and Numerical Approaches in Structural Mechanics" <https://www.frontiersin.org/research-topics/19457/metaheuristics-artificial-intelligence-and-numerical-approaches-in-structural-mechanics>
- Challenge Journal of Structural Mechanics, Tulpar Academic Publishing, Member of Editorial Board,
- Journal of Non-Crystalline Solids, Editorial Manager
- Journal of Scheduling (Elsevier)
- Ocean Engineering (Elsevier)
- Computers & Structures (Elsevier)
- Computer-Aided Civil and Infrastructure Engineering (Blackwell)
- Teknik Dergi (Turkish Chamber of Civil Engineers)
- Journal of Structural Engineering (ASCE)
- Journal of Computing in Civil Engineering (ASCE)
- Journal of Architectural Engineering (ASCE)
- Scientia Iranica (Sharif University of Technology)
- Pamukkale University Journal of Engineering Sciences (TR)
- Asian Journal of Civil Engineering (Building and Housing) (Iran)
- Structural Engineering and Mechanics, Techno Press, South Korea

- Neural Computing and Applications (NCAA), Springer
- Turkish Journal of Electrical Engineering & Computer Sciences, TUBITAK, Turkey
- KSCE Journal of Civil Engineering, Springer
- Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi

PROJECTS

International

Dr. Toklu was the leader of the workpackage “Construction” in the proposal “Towards the Ultimate Self-Sustainable Society: Manufacture System Design for In-Situ Resource Utilization in a Moon Colony (Moon-ISRU)” submitted to European Union 6th Framework Programme.

- Participants: 30 units from Europe Union, 9 units from US, 4 units from Canada, 1 unit from Japan, units being universities, research centers, national and international companies.
- Workpackages: 1) Production management and structuring, 2) Mining and processing, 3) Manufacture, 4) System integration, 5) Construction, 6) Software and simulations, 7) Dissemination and training, 8) Management.
- Total cost: 6 million €.

National



Investigator/Expert in the TUBITAK 1001 project: Development of Construction Materials for the Lunar Environment: Performance of Lunar Regolith Simulant-Based Geopolymer Concrete under Vacuum-Thermal Cycling and Radiation Exposure (Ay Koşulları için Yapı Malzemesi Üretimi: Ay Regoliti Simülantı Esaslı Jeopolimer Betonun Vakum-Termal Döngü ve Radyasyon Ortamlarında Performansı). Project will be conducted in “Middle East Technical University, The Research and Application Center for Space and Accelerator Technologies (Orta Doğu Teknik Üniversitesi Uzay ve Hızlandırıcı Teknolojiler Uygulama ve Araştırma Merkezi (ODTÜ İVMER). Budget: 2.395.500,00TL / 58,915 USD. Duration 24 months. Sept 2025 – Sept 2027

Principal Investigator of the project: “Dünya dışından getirilen tüm toprakların ileri düzeyde araştırmalara temel teşkil etmek üzere benzerlerinin dünyada üretilmesi” İstanbul Aydın University BAP Project, 100000TL, 12.02.2025 - Continuing

Principal Investigator of the project: “Enerji Enküçüklemeli Sonlu Elemanlar Yöntemi (EESEY) ile Yapı Analizinde Yeni Gelişmeler <Recent advances in structural analysis through finite element method with energy minimization (FEMO) Beykent University 2021-22-BAP-01, 266000 TL, 31.03.2022 – 31.03.2024> *Completed*

Principal Investigator of the project: “Türkiye Coğrafyasının Çeşitli Bölgelerinden Alınan Örneklerle Ay Toprağı Benzerinin Üretilmesi <Production of lunar soil simulant using soil samples taken from different regions in Turkey >” Beykent University 2018-19-BAP-01, 39688 TL, 01.04.2019 – 01.10.2021 *Completed*

Principal Investigator of the project “Research and production of Lunar Soil Simulant in Turkey”.
Bilecik Şeyh Edebalı University, BAP 2015-01. BŞEÜ.03-09, 6373,97 TL. 10/11/2015-10/11/2016 Completed

Investigator of the project: “Üç boyutlu kafes sistemlerin enerji prensipleri kullanılarak, geometri ve malzeme açısından doğrusal olmayan analizi <Geometrical and material nonlinear analysis of 3 dimensional trusses using energy principles >” Istanbul University BYP-2016-20565, 8.598,00 TL, 10.08.2018 – 10.08.2019 *Completed*

Investigator of the project: “Deprem Etkileri Altındaki Betonarme Konsol İstinat Duvarlarının En Düşük Maliyetli Tasarımı <Cost minimization of the design of reinforced concrete cantilever retaining walls under earthquake effect>” Istanbul University BYP-2018-31208, 8.598,00 TL, 12.09.2018 – 12.09.2019. *Completed*

HOBBIES, EXTRA-TECHNICAL ACTIVITIES AND MEDIA

Reading,
writing,
driving,
traveling,
space sciences (probably the first rocket maker and launcher in Turkey, 1960),
mountaineering (climbed Hasan Dağ, Erciyes, Nemrut, Aladağ (*)),
playing football (played against Paris Saint-Germain winning a penalty (*)).
(*) Long time ago, of course.

Yeditepe University	https://www.dailymotion.com/video/xdve0a
Lunar Soil Simulant	https://247newsbulletin.com/technology/161496.html
Lunar Soil Simulant (tele 1)	https://youtu.be/dgcD3ELZNo4
Kessler syndrome	https://www.iha.com.tr/istanbul-haberleri/prof-toklu-135-milyona-yakin-uzay-copu-dunya-etrafinda-dolaniyor-42217909
Kessler syndrome	Prof. Toklu_ - 135 milyona yakın uzay çöpü dünya etrafında dolaniyor - İhlas Haber Ajansı (2023-11-10 13_32_21.591).html
Kessler syndrome	https://www.beykent.edu.tr/haberler/detay/2023/11/10/prof-toklu-135-milyona-yakin-uzay-copu-dunya-etrafinda-dolaniyor

Moon Society talk <https://www.youtube.com/watch?v=Y5TceWBYyjY>

Seminar on Space Civil Engineering
<https://www.youtube.com/watch?v=QLOcMmQYXBw>

Uzay yerleşkeleri (tele 1) <https://www.youtube.com/watch?v=ZUujXp1aHkA&t=2s>

RESEARCH SUBJECTS

(With some exemplary publications)

- Space civil engineering (Production of lunar soil simulant in Turkey; Lunar concrete; space construction industry.

***Toklu, Y. C., Akpınar, P. (2019). Lunar Soil Simulants– An Assessment. 9th International Conference on Recent Advances in Space Technologies “Space for the Sustainable Development Goals”, RAST 2019, 11-14 June 2019, İstanbul, Türkiye.

- Construction management (Scheduling; A new approach in scheduling computations based on start dates of activities, not their order; Novel relations between activities)

***TOKLU, Y. C. (2002) "Application of Genetic Algorithms to Construction Scheduling With or Without Resource Constraints" Can. J. Civ. Eng./Rev. Can.Génie Civ. 29(3): 421-429) [SCIE]

- 3D printing in construction industry (Determination of materials to be used, Optimization in 3D applications)

***Toklu, Y.C, Bekdaş, G., Geem, Z.W. (2020) Harmony Search Optimization of Nozzle Movement for Additive Manufacturing of Concrete Structures and Concrete Elements. Applied Sciences. 10(12), 4413 [SCIE] doi: 10.3390/app10124413

- Optimization in engineering and sciences (Highway design; Structural design and original applications in analysis; Multimodal optimization; Various applications of metaheuristic algorithms)

***Bekdas, G., Kayabekir, A. E., Niğdeli, S. M., Toklu, Y. C. (2019). Advanced Energy Based Analyses of Trusses employing Hybrid Metaheuristics. The Structural Design of Tall and Special Buildings. 28(9) e1609 [SCIE] DOI: 10.1002/tal.1609 <http://dx.doi.org/10.1002/tal.1609> WOS:000468788000005

- Engineering mechanics (New approaches to nonlinear behavior of plates; FEMEM – Finite Element Method with Energy Minimization – originally forwarded as Total Potential Optimization using Metaheuristic Algorithms – TPO/MAs)

***TOKLU, Y.C., "Nonlinear Analysis of Trusses Through Energy Minimization", Computers and Structures, Vol. 82, August 2004, pp.1581-1589. [SCI]

- AI in Civil Engineering (A general look from conception to design, analysis, site organization, procurements, finance, scheduling, construction, ... to maintenance with full automatization, robotics in Civil Engineering)

***Toklu, Y.C, Bekdaş, G., Geem, Z.W. (2020) Harmony Search Optimization of Nozzle Movement for Additive Manufacturing of Concrete Structures and Concrete Elements. Applied Sciences. 10(12), 4413 [SCIE] doi: 10.3390/app10124413

- Smart structures (Structures changing their shapes in accordance with the applied loads)

***Toklu, Y. C., Arditi, D. (2014). Smart trusses for space applications. 14th ASCE International Conference on Engineering, Science, Construction and Operations in Challenging Environments, Earth and Space 2014,"Engineering for Extreme Environments". October 27-29, 2014, St. Louis, Missouri, USA

- Universities, improving engineering education.

***Toklu, Y. C. (2011) "21. yüzyıl ortaları için inşaat mühendisi yetiştirmek [Educating civil engineers for mid 21st century]" İnşaat Mühendisliği Eğitimi 2. Sempozyumu 23-24 Eylül 2011 Muğla, Bildiriler Kitabı, Sinan Altın (ed.), TMMOB İnşaat Mühendisleri Odası, pp. 225-231

PUBLICATIONS

Peer reviewed journal papers, in (SCI / SCIE) indexed journals

Kaya, Y., Toklu, Y.C. (2026?) "From reinforced earth to reinforced regolith (ReRe) on Moon"
Under evaluation

Bay, I., Kaya, Y., Ger, A.M., Toklu, Y.C. (2026?) On the validation of existence of water on the moon – A Review and analysis *Under evaluation*

Akpınar, P., Toklu, Y.C. (2026?) Qualitative and Comparative Evaluation of the Performances of Different Types of Lunar Construction Materials. *Under evaluation*

Toklu YC, Kaya Y (2026). Finite element method with energy minimization (FEMEM) in structural analysis: State-of-the-art. Challenge Journal of Structural Mechanics, 12(2), 145–161.

Unsalan, O., Toklu, Y.C., Altunayar-Unsalan, C., Calis Acikbas, N., Acikbas, G., Cercevik, A.E. (2024) "Micro-Raman and FTIR spectroscopic characterization of the first Turkish lunar regolith simulant". *Astrophysics and Space Science*, 369:121. <https://doi.org/10.1007/s10509-024-04383-7>

Toklu, Y. C., Ozbasaran. H. (2024) "An Efficient Decoder for Size Optimization of Trusses with Automatic Member Grouping". *Soft Computing* 28(19):11237-11263.
<https://doi.org/10.1007/s00500-024-09879-6>

Bekdaş, G., Ocak, A., Nigdeli, S. M., Toklu, Y.C. (2024) "A Metaheuristic-Based Method for Analysis of Tensegrity Structures", *The Structural Design of Tall and Special Buildings*, e2091. DOI: 10.1002/tal.2091

Toklu, Y. C., Çalış Açıkbaş, N., Açıkbaş, G., Çerçevik, A. E., Akpınar, P. (2023) Production of a Set of Lunar Regolith Simulants Based on Apollo and Chinese Samples. *Advances in Space Research*. 72 (2), pp. 565-576. <https://doi.org/10.1016/j.asr.2023.03.035>

Toklu, Y.C. and Akpınar, P. (2022) "Lunar soils, simulants and lunar construction materials: An overview", *Advances in Space Research*. 70(3) pp. 762-779. <https://doi.org/10.1016/j.asr.2022.05.017>. [SCIE]

Toklu, Y. C., Bekdaş, G., Yücel, M., Nigdeli, S. M., Kayabekir, A. E., Kim, S., Geem, Z. W. (2021) Total Potential Optimization using Metaheuristic Algorithms for Solving Non-linear Plane Strain Systems, *Applied Sciences*, 11, 3220. [SCIE], <https://doi.org/10.3390/app11073220>

Toklu, Y.C, Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M., Yucel, M. (2020) Analysis of Plane Stress Systems via Total Potential Optimization method considering non-linear behavior of stress-strain relationships. *ASCE Journal of Structural Engineering*. Vol. 146, No. 11, November 2020 [SCIE]
<https://ascelibrary.org/doi/pdf/10.1061/%28ASCE%29ST.1943-541X.0002808>

Toklu, Y.C, Bekdaş, G., Geem, Z.W. (2020) Harmony Search Optimization of Nozzle Movement for Additive Manufacturing of Concrete Structures and Concrete Elements. *Applied Sciences*. 10(12), 4413 [SCIE] doi: 10.3390/app10124413

Kayabekir, A. E, Toklu, Y. C., Bekdaş, G., Nigdeli, S. M., Yücel, M., Geem, Z. W. (2020). A Novel Hybrid Harmony Search Approach for Analysis of Plane Stress Systems via Total Potential Optimization. *Special*

Issue: "Harmony Search Algorithm - Theoretical Background and Practical Applications. Appl. Sci., 10(7), 2301. [SCIE] <https://doi.org/10.3390/app10072301> WOS:000533356200100

Bekdas, G., Kayabekir, A. E., Niğdeli, S. M., Toklu, Y. C. (2019). Advanced Energy Based Analyses of Trusses employing Hybrid Metaheuristics. The Structural Design of Tall and Special Buildings. 28(9) e1609 [SCIE] DOI: 10.1002/tal.1609 <http://dx.doi.org/10.1002/tal.1609> WOS:000468788000005

Bekdas, G., Kayabekir, A. E., Niğdeli, S. M., Toklu, Y. C. (2019). Transfer function amplitude minimization for structures with tuned mass dampers considering soil-structure interaction. Soil Dynamics and Earthquake Engineering. 116, January 2019, pp. 552-562. <https://doi.org/10.1016/j.soildyn.2018.10.035> [SCI]

Toklu, Y. C. (2018). Application of Big Bang - Big Crunch Optimization to Resource Constrained Scheduling Problems. KSCE Journal of Civil Engineering, Vol. 22 No.12 (December 1, 2018) [SCIE] DOI: 10.1007/s12205-017-1549-y

Toklu, Y. C., Bekdas, G., Temur, R. (2017). Analysis of Cable Structures Through Energy Minimization. Structural Engineering and Mechanics, Vol. 62, No. 6, 749-758, [SCIE] DOI: <https://doi.org/10.12989/sem.2017.62.6.749> WOS:000405241200009

Toklu, Y. C. and Uzun, F. (2016). "Analysis of Tensegric Structures by Total Potential Optimization Using Metaheuristic Algorithms." Journal of Aerospace Engineering, Vol. 29, No. 5, September 2016: 04016023. [SCIE] DOI: 10.1061/(ASCE)AS.1943-5525.0000571

Ince, C., Derogar, S., Yardımcı, N., Toklu, Y. C. (2015). The influence of zeolite and powdered Bayburt stones on the water transport kinetics and mechanical properties of hydrated lime mortars. Construction and Building Materials, 98: 345–352. [SCI] DOI: 10.1016/j.conbuildmat.2015.08.118

Toklu, Y. C., Temür, R., Bekdaş, G., (2015). Computation of Non-Unique Solutions for Trusses Undergoing Large Deflections. International Journal of Computational Methods, Vol. 12, No. 3, 1550022 (23 pages). [SCIE] DOI: 10.1142/S021987621550022X
<<http://www.worldscientific.com/doi/abs/10.1142/S021987621550022X>>

Toklu, Y. C., Bekdaş, G., Temür, R. (2013). Analysis of Trusses by Total Potential Optimization Method Coupled with Harmony Search. Structural Engineering and Mechanics, *An International Journal*. 45(2) 183-199. [SCIE]

Montemanni, R., Toklu, N. E., Toklu, Ş. Ç., And Toklu, Y. C. (2012) "Aggregate Blending via Robust Linear Programming", Journal of Construction Engineering and Management. 138(2): 188-196. [SCIE] doi:10.1061/(ASCE)CO.1943-7862.0000422

TOKLU, Y.C., (2005) "Aggregate Blending Using Genetic Algorithms", Computer-Aided Civil and Infrastructure Engineering, Vol. 20, No:6, pp. 450-460. [SCI]

TOKLU, Y.C., (2004) "Nonlinear Analysis of Trusses Through Energy Minimization", Computers and Structures, Vol. 82, pp.1581-1589. [SCI]

Arditi D., A. Elhassan, Y. C. Toklu, Closure to "Constructability Analysis in the Design Firm" Journal of Construction Engineering and Management of the American Society of Civil Engineers (ASCE), Vol. 130, No. 2, March/April 2004, pp. 302-304 [SCIE]

TOKLU, Y. C. (2002) "Application of Genetic Algorithms to Construction Scheduling with or without Resource Constraints" Can. J. Civ. Eng./Rev. Can.Génie Civ. 29(3): 421-429) [SCIE]

Arditi D., A. Elhassan, Y. C. Toklu "Constructability Analysis in the Design Firm" Journal of Construction Engineering and Management of the American Society of Civil Engineers (ASCE), vol.128, No:2, pp.117-126, March/April 2002 [SCIE]

Peer reviewed journal papers, in other indexed journals

Çerçevik, A. E., Toklu, Y. C., Yerel Kandemir, S., Yaylı, M. (2018). 3D beton üretimi için mermer tozu ve seramik artıklarının kullanılmasının araştırılması <Use of marble powder and waste ceramics in 3D concrete production>. Süleyman Demirel Üniversitesi Uluslararası Teknolojik Bilimler Dergisi, 10(2), 57-68.

Çerçevik, A. E., Toklu, Y. C., Yerel Kandemir, S., Yaylı, M. (2018). 3D baskı teknolojisi kullanarak yapı üretiminin son dönem yeniliklerinin araştırılması <Recent advances in construction industry using 3D printing technology>. International Journal of 3D Printing Technologies and Digital Industry, 2 (2), 116-122. Retrieved from <http://dergipark.gov.tr/ij3dptdi/issue/38540/425492>

Temür, R., Bekdaş, G., Toklu, Y. C. (2017). Total potential energy minimization method in structural analysis considering material nonlinearity. Challenge Journal of Structural Mechanics 3 (3) (2017) 129–133

Toklu, Y. C., Çerçevik, A. E., Şahinöz, M. (2016). "Otomatik yapı üretim teknolojisinde kullanılabilir malzemelerin belirlenmesi <Determination of the materials that can be used in automated construction production technology>" Süleyman Demirel University Journal of Natural and Applied Sciences, DOI: 10.19113/sdufbed.73967

HATAY, T., Y. C. TOKLU, (2004) "Optimization of Trusses Using Simulated Annealing Method", ARI Journal, ITU, Istanbul, vol. 54. No:1, 2004, pp. 66-71 (Reprinted after being chosen among 20 best papers in ACE2002)

Peer reviewed international conference papers

Akgul, C.M, Tamer, T., Toklu, Y.C., (2026) "Machine Learning-Based Evaluation of Regolith Simulants for In-Situ Construction Applications in Extraterrestrial Environments". ASCE Earth & Space Conference 2026. April 13-16, Texas, USA.

Toklu, Y. C., Muderrisoglu, Z., Ozbasaran, H. (2024) "An Iterative Approach, TPO/MA, for Non-linear Analysis of Tensegrity Structures Under Terrestrial and Lunar Conditions", ASCE Earth & Space Conference 2024, April 15-18, 2024, Miami, Florida, USA; <https://earthspace2024.fiu.edu/> *Accepted. Not attended*

Akpınar, P., Toklu, Y. C. (2024) "Lunar construction materials – an assessment", ASCE Earth & Space Conference 2024, April 15-18, 2024, Miami, Florida, USA; <https://earthspace2024.fiu.edu/> *Accepted. Not attended*

Toklu, Y. C., Ozbasaran, H. (2023) "Eniyilemeli Sonlu Elemanlar Yöntemi". Mühendislikte Bilgisayar Uygulamaları ve Teknolojik Gelişmeler Sempozyumu, İnşaat Mühendisleri Odası, 22-23 Aralık 2023, Ankara, <"Finite Element Method with Optimization", Symposium on Computer Applications and Technological Applications in Engineering> <http://tgs.imo.org.tr/>

Toklu, Y. C., Çerçevik, A.E. (2023) "Additive Manufacturing of Concrete Structures and Concrete Elements, Optimization of the Time Consumed" 7th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2023, October 25 to 27, 2023 - ISTANBUL, TURKIYE, <https://3dprintturkey.org/>

Can, U. C., Ozbasaran, H., Toklu, Y. C. (2022) "Structural Analysis of Solids using Finite Element Method with Optimization" *ICONDATA'22 (5th International Conference on Data Science and Applications)*. 7 - 11 September 2022, Fethiye – Mugla, Türkiye. <https://www.icondata.org/uploads/kcfinder/upload/files/ICONDATA'22%20FullText%20Proceedings%20Book.pdf>

Pazi, C., Ozbasaran, H., Toklu, Y. C. (2022) " "Initial Test Results of an Automatic Member Grouping Method for Structural Optimization" *ICONDATA'22 (5th International Conference on Data Science and Applications)*. 7 - 11 September 2022, Fethiye – Mugla. <<http://www.icondata.org/en/>>

Unsalan, O., Toklu, Y. C., Altunayar-Unsalan, C., Calis Acikbas, N., Acikbas, G., Cercevik, A. E. (2022) "Vibrational spectroscopic investigation of the first Turkish lunar regolith simulant" 15th International GeoRaman Conference. 29th August – 2nd September 2022, Prague, Czech Republic. <<https://web.natur.cuni.cz/ugmnz/georaman2022/>>

Toklu, Y. C., Çalış Açıkbaş, N., Açıkbaş, G., Çerçevik, A.E., Akpınar, P., (2022) "Turkish Lunar Regolith Simulant TBG-1" ASCE Earth and Space 2022, 18th Biennial Conference, April 25-28, Denver, Colorado USA

Toklu, Y. C., Akpınar, P., Çalış Açıkbaş, N., Açıkbaş, G., Çerçevik, A.E., (2022) "Dünyada Ay Toprağı Örnekleri ve Benzerlerinin Üretimi. Türk Benzeri TBG-1 <Lunar soil samples in the world and production of their simulants. Turkish simulant TBG-1>". Uluslararası Katılımlı 74. Türkiye Jeoloji Kurultayı <74th Geological Congress of Turkey with international participation> 11-15/04/2022

Toklu, Y.C., Bekdas, G., Nigdeli S.M. (2021) Sezgisel Algoritmalarla Toplam Potansiyel Enerji Optimizasyonu Yönteminin Yapısal Çözümlemede Üstünlükleri Ve Gelişmeler. In Proceedings of 1st Int. Congress on Artificial Intelligence and Data Science, 26-28 November 2021, İzmir, Istanbul Eds.: Alaybeyoglu, A, Yilmaz, S., Gokalp, O.; pp 144-149

Sanli, B., Ozbasaran, H., Toklu, Y.C. (2021) Analysis of Kinematically Unstable Trusses With Finite Element Method with Energy Minimization. In Proceedings of 1st Int. Congress on Artificial Intelligence and Data Science, 26-28 November 2021, İzmir, Istanbul Eds.: Alaybeyoglu, A, Yilmaz, S., Gokalp, O.; pp 199-204

Nigdeli, S. M., Bekdaş, G., Yücel, M., Kayabekir, A. E., Toklu, Y. C. (2021) "Analysis of non-linear structural systems via hybrid algorithms". 4th International Conference on Intelligent Computing and Optimization, 30th to 31st December 2021, Hua Hin, Prachuap Khiri Khan, Thailand. in Intelligent Computing & Optimization - Proceedings of the 4th International Conference on Intelligent Computing and Optimization 2021 (ICO2021), Eds.: Pandian Vasant, Ivan Zelinka, Gerhard-Wilhelm Weber, Springer International Publishing. 2022

Bekdaş, G., Nigdeli, S. M. and Toklu, Y. C. (2021) "A Modified Jaya Algorithm and application to structural analysis of trusses" The 2nd Symposium on Metaheuristics and Numerical Analysis in Engineering within 19th Int. Conf. of Numerical Analysis and Applied Mathematics, Rhodes, Greece, 20-26 September 2021

Toklu, Y. C., Özbaşaran, H. (2021) "Size Optimization of Trusses with Automatic Member Grouping: Performance Issues" Int. Conf. on Interdisciplinary Applications of Artificial Intelligence (ICIDAAI), May 21-23, Yalova, Turkey, *Online conference*.

Toklu, Y.C., Bekdaş, G., Kayabekir, A.E., Nigdeli, S.M. and Yücel, M. (2020) "Total Potential Optimization using Metaheuristics: Analysis of cantilever beam via plane-stress members" ICHSA 2020: 6th International Conference on Harmony Search, Soft Computing and Applications, Istanbul, Turkey, July 16-17, 2020. *Online conference.*

Nigdeli, S. M., Bekdaş, G., Toklu, Y. C. (2019). Total potential energy minimization using metaheuristic algorithms for spatial cable systems with increasing second order effects. 12th HSTAM 2019 International Congress on Mechanics, 22-25 September 2019, Thessaloniki, Greece

Toklu, Y. C., Akpınar, P. (2019). Lunar Soil Simulants– An Assessment. 9th International Conference on Recent Advances in Space Technologies “Space for the Sustainable Development Goals”, RAST 2019, 11-14 June 2019, İstanbul, Türkiye.

Bekdaş, G., Nigdeli, S.M., Kayabekir, A.E., Toklu, Y.C. (2018). Minimization of vertical deflection of an optimum I-beam by Jaya algorithm. AIP Conference Proceedings Vol. 1978, No. 1, p. 260002, American Institute of Physics

Toklu, Y. C., Bekdas, G., Nigdeli, S. M. (2018). Analysis of under-constrained and unstable structures by the method TPO/MA. AIP Conference Proceedings 1978, 260003 (2018); doi: 10.1063/1.5043888, American Institute of Physics

Nigdeli, S. M., Bekdas, G., Toklu, Y.C. (2018). METAHEURISTIC AND FREQUENCY DOMAIN BASED OPTIMIZATION OF TUNED MASS DAMPERS AND VERIFICATION OF THE RESULTS ON TIME HISTORY ANALYSES. 9th GRACM 2018 International Congress on Computational Mechanics. 4-6 June 2018, Chania, Crete, GREECE

Kayabekir, A. C., Nigdeli, S. M., Bekdaş, G., Toklu, Y. C. (2018). THE ANALYSES OF SPATIAL CABLE STRUCTURES EMPLOYING NEW GENERATION METAHEURISTIC METHODS. 9th GRACM 2018 International Congress on Computational Mechanics. 4-6 June 2018, Chania, Crete, GREECE

Cercevik, A. E., Toklu, Y. C., Yerel Kandemir, S., Yaylı, M. Ö. (2018). INVESTIGATION OF MARBLE POWDER AND CERAMIC WASTE FOR PRODUCTION 3D CONCRETE. 3rd INTERNATIONAL CONGRESS ON 3D PRINTING TECHNOLOGIES AND DIGITAL INDUSTRY 2018. 19 - 21 APRIL 2018, ANTALYA

Cercevik, A. E., Yerel Kandemir, S., Toklu, Y. C. (2018). 3D BASKI TEKNOLOJİSİ KULLANARAK YAPI ÜRETİMİNİN SON DÖNEM YENİLİKLERİNİN ARAŞTIRILMASI. 3rd INTERNATIONAL CONGRESS ON 3D PRINTING TECHNOLOGIES AND DIGITAL INDUSTRY 2018. 19 - 21 APRIL 2018, ANTALYA

Bekdaş, G., Nigdeli, S. M., Kayabekir, A. E., and Toklu, Y. C. (2017). Minimization of Vertical Deflection of an Optimum I-Beam by Jaya Algorithm. 15th INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS, ICNAAM 2017, 25-30 September 2017, The MET Hotel, Thessaloniki, Greece

Toklu, Y. C., Bekdaş, G., Nigdeli, S. M. (2017). Analysis of under-constrained and unstable structures by the method TPO/MA. 15th INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS, ICNAAM 2017, 25-30 September 2017, The MET Hotel, Thessaloniki, Greece

Toklu, Y.C., Çerçevik, A. E., Yerel Kandemir, S., Yayli, M. O. (2017). Production of lunar soil simulant in Turkey. 8th International Conference on Recent Advances in Space Technologies - RAST 2017, June 19-22, 2017, Istanbul, Turkey

Toklu, Y.C., Çerçevik, A. E. (2017). Space research and extraterrestrial construction industry. 8th International Conference on Recent Advances in Space Technologies - RAST 2017, June 19-22, 2017, Istanbul, Turkey

Temür, R., Bekdaş, G., Toklu, Y. C. (2016) Total Potential Energy Minimization Method Considering Material Nonlinearity, 12th International Congress on Advances in Civil Engineering, ACE 2016, 21-23 September, Bogazici University, Istanbul, Turkey

ŞAHİNÖZ, M., ÇERÇEVİK, A.E., YEREL KANDEMİR, S., TOKLU, Y.C., YAYLI, M. Ö. (2016). INVESTIGATION OF AUTOMATION TECHNOLOGY IN CONSTRUCTION. International Conference on Research in Education and Science (ICRES), May 19-22, 2016, Bodrum, Turkey

Toklu, Y. C. (2016) Application of Metaheuristic Algorithms to Structural Mechanics Problems. International Conference on Modeling and Optimization: Theory and Applications (MOPTA). Lehigh University, Bethlehem, PA, USA, 17-19 August 2016.

Toklu, Y. C., Temur, R., Bekdaş, G. (2015). Teaching learning-based optimization algorithm for analyses of trusses considering elastoplastic behavior. 6th European Conference of CIVIL ENGINEERING (ECCIE '15), Budapest, Hungary, December 12-14, 2015. <<http://www.wseas.us/e-library/conferences/2015/Budapest/MECH/MECH-13.pdf>>

Toklu, Y. C., Bekdaş, G., Temur, R. (2015). Investigation of thermal effects on analyses of truss structures via metaheuristic approaches. 6th European Conference of CIVIL ENGINEERING (ECCIE '15), Budapest, Hungary, December 12-14, 2015. <<http://www.wseas.us/e-library/conferences/2015/Budapest/MECH/MECH-17.pdf>>

Bekdaş, G., Temur, R., Toklu, Y. C. (2015). Analyses of truss structures via total potential optimization implemented with teaching learning-based optimization algorithm. 3rd International Conference on OPTIMIZATION TECHNIQUES in ENGINEERING (OTENG '15), Rome, Italy, November 7-9, 2015.

Civelek, M. B., Toklu, Y. C. (2015). Developments in the Design and Construction of Suspension Bridges and Arch Bridges. In Steel Bridges, N. Yardimci, A. B. Aydoğan, H. Y. Gures (eds), 8th International Symposium on Steel Bridges, Turkish Constructional Steelwork Association (TUCSA), 14-15 September, Istanbul, pp. 201-206.

Yayli, M. Ö., Yerel Kandemir, S., Toklu, Y. C. (2015). Assessment of Lunar Surface Materials. 7th International Conference on Recent Advances in Space Technologies, RAST 2015, "Emerging Private Space", 16-19 June 2015, Istanbul, Turkey

Toklu, Y. C. (2015) Social, Historical and International Aspects of Space Research, 7th International Conference on Recent Advances in Space Technologies, RAST 2015, "Emerging Private Space", 16-19 June 2015, Istanbul, Turkey.

Bekdas, G., Temur, R., Toklu, Y. C. (2014). Analyses of truss structures under thermal effects. 5th European Conference of Civil Engineering (ECCIE '14), Paper 71803-121, Florence, Italy, November 22-24, 2014

Temur, R., Bekdas, G., Turkan, Y. S., Toklu, Y. C. (2014). Investigating the behavior of the truss structures with unilateral boundary conditions. 5th European Conference of Civil Engineering (ECCIE '14), Paper 71803-115, Florence, Italy, November 22-24, 2014

Toklu, Y. C., Uzun, F., Bekdas, G., Temur, R. (2014). Structural Analysis of Tensegric Structures for Space Applications. 14th ASCE International Conference on Engineering, Science, Construction and Operations in Challenging Environments, Earth and Space 2014, "Engineering for Extreme Environments". October 27-29, 2014, St. Louis, Missouri, USA

Toklu, Y. C., Arditi, D. (2014). Smart trusses for space applications. 14th ASCE International Conference on Engineering, Science, Construction and Operations in Challenging Environments, Earth and Space 2014, "Engineering for Extreme Environments". October 27-29, 2014, St. Louis, Missouri, USA

G. Bekdaş, R. Temur and Y.C. Toklu (2014) "Total Potential Energy Optimization Method Analyses of Trusses Structures Considering the Elasto-Plastic Behavior" ACE2014, 11th International Congress on Advances in Civil Engineering, 21-25 October 2014, Istanbul, Turkey

H. Bozkurt, A. Çerçevik , Y. C. Toklu (2014) "Applications of Metaheuristic Methods in Civil Engineering Problems" ACE2014, 11th International Congress on Advances in Civil Engineering, 21-25 October 2014, Istanbul, Turkey

S. Derogar, C. Ince, Y.C. Toklu (2014) "Nonlinear Finite Element Modelling of Cold-Formed Steel Bolted Beam-column Connections" ACE2014, 11th International Congress on Advances in Civil Engineering, 21-25 October 2014, Istanbul, Turkey

Yusuf Cengiz Toklu, Mustafa Ozgur Yayli, Burhanettin Altan (2014) "Two-dimensional plane stress analysis as optimization problems" ACE2014, 11th International Congress on Advances in Civil Engineering, 21-25 October 2014, Istanbul, Turkey

R. Temur, G. Bekdaş and Y.C. Toklu (2014) "Analysis of Cable Structures through Total Potential Optimization using Meta-heuristic Algorithms" ACE2014, 11th International Congress on Advances in Civil Engineering, 21-25 October 2014, Istanbul, Turkey

Y. C. Toklu, A. E. Çerçevik (2014) "Stability and bifurcation of Euler-Bernoulli Beams" ACE2014, 11th International Congress on Advances in Civil Engineering, 21-25 October 2014, Istanbul, Turkey

F. Uzun, Y. C. Toklu (2014) "Biological Evolution for Analysis of Tensegric Structures" ACE2014, 11th International Congress on Advances in Civil Engineering, 21-25 October 2014, Istanbul, Turkey

S. Yerel Kandemir and Y.C. Toklu (2014) "Geotechnical Issues on Design and Construction of Lunar Base" ACE2014, 11th International Congress on Advances in Civil Engineering, 21-25 October 2014, Istanbul, Turkey

Ince, S. Derogar & Y. C. Toklu (2014) The influence of zeolite and powdered Bayburt stones on transfer sorptivity and time to dewater freshly mixed cement mortars Eco-crete International Symposium on sustainability. Iceland, 13-15 Aug 2014

Ince, C., Hatipoglu, Y. S., Oktay, I., Yucel, M. E., Erdem, B. Z., Derogar, S., and Toklu, Y. C. (2014). The influence of zeolite and powdered Bayburt Stones on transfer sorptivity and time taken to dewater freshly mixed hydrated lime mortars. International Civil Engineering & Architecture Symposium for Academicians 2014, ICESA 2014, 17-20 May 2014, Side - Antalya, Turkey

Ince, C., Hatipoglu, Y. S., Derogar, S., Erdem, B. Z., and Toklu, Y. C. (2014). The effects of zeolite and Bayburt Stones on the fresh and hardened properties of hydrated lime mortars. 2nd International Conference on Protection of Historical Constructions, PROHITECH, 7-9 May 2014, Antalya, Turkey

Toklu, Y. C. (2014). An Overview of Metaheuristic Algorithms. in Toklu, Bekdaş (eds) Metaheuristics and Engineering, Bilecik University, pp.13-16

Toklu, Y. C., Yayli, M. O., Altan, B. (2014). Analysis of plane stress problems as optimization problems. in Toklu, Bekdaş (eds) Metaheuristics and Engineering, Bilecik University, pp.45-47

- Cercevik, A. E., Bozkurt, H., Toklu, Y. C. (2014). Applications of Meta-heuristic algorithms to civil engineering problems, a survey. in Toklu, Bekdaş (eds) Metaheuristics and Engineering, Bilecik University, pp.63-70
- Bekdas, G., Temur, R., Toklu, Y. C. (2014). Analysis of Structures with Unilateral Boundary Conditions. in Toklu, Bekdaş (eds) Metaheuristics and Engineering, Bilecik University, pp.113-116
- Temur, R., Bekdas, G., Turkan, Y. S., Toklu, Y. C. (2014). Behaviour of Zero Force Members in Nonlinear Truss Analysis. in Toklu, Bekdaş (eds) Metaheuristics and Engineering, Bilecik University, pp.153-156
- Toklu, Ş.Ç., Aydın, N., Toklu, Y. C. (2013). Analyzing structures: Total Potential Optimization using Meta-heuristic Algorithms (TPO/MA). 3rd Int. Symp. on Computing in Science and Engineering, October 24-25, 2013, Aydın, Turkey, Proceedings, Gediz University Publications, pp. 321-325
- Toklu, Y. C. (2013). Metaheuristics and engineering. 11th International Conference of Numerical Analysis and Applied Mathematics 2013: ICNAAM 2013, 21-27 September 2013, Rhodes, Greece., Editors: T. Simos, G. Psihoyios and Ch. Tsitouras. AIP Conf. Proc. 1558, 421 (2013); <http://dx.doi.org/10.1063/1.4825515>
- Toklu, Y. C., Bekdaş, G., Temür, R., Toklu, Ş. Ç., Uzun, F. (2013). Nonlinear Analysis of Structures by Total Potential Optimization using Meta-heuristic Algorithms (TPO/MA). European Group for Intelligent Computing in Engineering, EG-ICE 2013, 20th International Workshop: Intelligent Computing in Engineering, Technical University of Vienna, Austria, July 01 - 03, 2013
- Toklu, Y. C., Bekdas, G., Temur, R., Uzun, F. (2013). Space Applications of Tensegric Structures. RAST 2013, Proc. 6th Intl. Conf. on Recent Advances in Space Technologies, New Ways of Accessing Space for Benefit of Society, Ilarslan, I., Ince, F., Kaynak, O., Basturk, S. (eds) 12-14 June 2013, Istanbul, Turkey, pp. 29-32.
- Toklu, Y. C. (2013). Structural Analysis, Metaheuristic Algorithms and the Method TPO/MA. In: Proceedings of the 14th EU/ME Workshop, Eds. A. Fink and J. Geiger, 28.02 - 01.03 2013, Helmut Schmidt University, Hamburg, Germany, pp. 44-50.
- Derogar, S., Ince, C., Mandal, P., Toklu, Y. C. (2012). Non-linear modeling of flat-plate systems under cyclic loading. 15th World Congress on Earthquake Engineering, 24-28 September, Lisbon, Portugal
- TOKLU, Y. Cengiz, TOKLU, S. Caglar, ATEŞ, Özden (2010) Total Potential Optimization Method Applied to Analysis of Structures. International Symposium "Steel Structures: Culture & Sustainability 2010", 21-23 September 2010, Istanbul, Turkey
- Toklu, Y. C. (2009) "Optimization In Structural Analysis And Design", Structures 2009 Congress, Austin, Texas, USA, April 30 -May 2 2009.
- TOKLU, Y. C. (2009) "Recent Issues in Civil Engineering Education", Fifth Int. Conf. Construction in the 21st Century (CITC-V), May 20-22, 2009, Istanbul, Turkey, BIRGONUL, T. M. et al (eds). pp 1145-1151 ISBN: 1-884342-02-3.

- ALNIAK, M. O., Y. C. TOKLU "An Assessment of The Turkish Defense Industry – 2006", 10th International Research/Expert Conference, "Trends in the Development of Machinery and Associated Technology", TMT 2006, Barcelona - Lloret de Mar, Spain, 11-15 September, 2006
- PUIG-SUARI, J., Y. C. TOKLU "The CubeSat Project and its Educational Impact", Aeronautics and Space Education Workshop, ASEW 2006, June 22-23, 2006, Istanbul, Turkey
- TOKLU, Y. C. "Optimum Lunar and Martian Structures and Their Construction", RAST 2005, 2nd Intl. Conf. on Recent Advances in Space Technologies, Space in the Service of Society, 9-11 June 2005, Istanbul, Turkey, pp. 260-264
- TOKLU, Y. C. "A New Technique for Nonlinear Analysis of Trusses" ACE2004, 6th Int. Congress on Advances in Civil Engineering, Bogazici Univ., Istanbul, Turkey, 6-8 October 2004, pp.813-822.
- JARVSTRAT, N., Y. C. TOKLU "Design and Construction for Self-sufficiency in a Lunar Colony", The Third International Conference on Advances in Structural Engineering and Mechanics (ASEM'04), 2-4 September 2004, Seoul, South Korea
- TOKLU, Y. C. (2004) "Application of Metaheuristic Optimization Techniques to Structural Analyses: Truss Example" Structures 2004 Congress, Nashville, Tennessee, USA, 22-26 May 2004
- TOKLU, Y. C. (2004) "Considerations on the Design of Space Structures - Active Design and Inclusion of Nonlinear Effects" 9th ASCE ASD International Conference- Earth & Space 2004, League City/Houston, Texas, USA, March 07-10, 2004, pp. 704-710
- TOKLU, Y. C., N. JARVSTRAT "Design and Construction of a Self-Sustainable Lunar Colony with In-Situ Resource Utilisation" Proceedings of the 10th ISPE International Conference on Concurrent Engineering: Research and Applications, Madeira Island, Portugal, 26 - 30 July 2003. CE: The Vision for Future Generation in Research and Applications, J. Cha; R. Jardim Gonçalves; A. SteigerGarcao (eds), Swets&Zeitlinger, Lisse, ISBN 90 5809 622 X, pp. 623-628
- HATAY, T., Y. C. TOKLU "Optimization of Trusses Using Simulated Annealing Method" ACE2002, 5th International Congress on Advances in Civil Engineering, Istanbul, Turkey, 25-27 September 2002. PALA, S., ILKI, A.(eds) ISBN 975-561-220-3, Vol.1, pp. 379-388
- TOKLU, Y. C. "Aggregate Blending Problem - An Arena of Applications of Optimization Methods" ICCCB-IX The 9th International Conference on Computing in Civil and Building Engineering, pp. 363-368, Taipei, Taiwan; 3-5 April 2002; ISBN 986-80000-0-7
- TOKLU, Y. C. "Uzay Yapilarinda Yerel Malzeme Kullanimi" (Use of Local Materials in Space Constructions) TIAD2001 - 1. ULUSLARARASI UZAY SEMPOZYUMU (1st International Space Symposium) 30-31 May 2001, Ankara, Turkey, pp: I-107 - I-111, ISBN 975-409-186-2
- YILDIZ, N., Y. C. TOKLU "Assessment of the Gothic Monuments in North Cyprus for Conservation and Restoration Purposes", 4th Intl. Congress on Advances in Civil Engineering, ACE2000, 1-3 November 2000, Famagusta, Northern Cyprus, Volume 1, pp 185-195
- TOKLU, Y. C. "Space Civil Engineering - Application of an Old Art to New Environments", 4th Intl. Congress on Advances in Civil Engineering, ACE2000, 1-3 November 2000, Famagusta, Northern Cyprus, Vol.1, pp. 217-226

TOKLU, Y. C. "Civil Engineering in the Design and Construction of a Lunar Base", SPACE 2000, 7th ASCE Congress on Engineering, Construction, Operations and Business in Space, Proceedings, 27 March - 2 March 2000, Albuquerque, USA, pp. 822-834

TOKLU, Y. C. "On the stability and large deflection analysis of elastic bars", *Stability in the Mechanics of Continua*, 2nd International Symposium, Numbrecht, F.R.Germany, Springer Verlag, 1981, pp. 185-200

Books

Toklu, Y. C., Bekdas, G., & Nigdeli, S. M. (2021). *Metaheuristics for Structural Design and Analysis*. John Wiley & Sons. ISBN-13: 978-1786302342
<https://onlinelibrary.wiley.com/doi/book/10.1002/9781119453628>

Toklu, Y. C., Bekdas, G., eds. (2014). *Metaheuristics and Engineering*, Proceedings of the 15th EU/ME Workshop. Bilecik Şeyh Edebali University, 190pp. ISBN: 978-605-85313-0-7. DOI: 10.13140/2.1.4954.1121 <<http://uahost.uantwerpen.be/eume/files/EUME-2014.pdf>>

TOKLU, Y. C., F. ERBATUR (editors). Advances in Civil Engineering - 4th International Congress, ACE2000, 1-3 November 2000, Famagusta, Northern Cyprus, 4 Volumes, 2012 pages, ISBN 975-97210-0-7

AKYURT, U., et al. including Y. C. TOKLU. Santiye El Kitabı (Construction Site Handbook), Izmir Chamber of Civil Engineers, 1992, 112 pages

TOKLU, Y. C. Etude des mortiers des graves traitees aux liants hydrauliques et aux liants mixtes en vue de la reduction de leur fissuration de retrait, Rapport de Recherche No. 60, Laboratoire Central des Ponts et Chaussees, Paris, 1976, 99 pages, <https://trid.trb.org/View/1068676>

Chapters in Books

Kaya, Y., Bay, İ., Toklu, Y.C. (2026). Effects of Quakes on Earth and Mars on a Tensegric Structure. In: Ilki, A., Goksu, C., Cinar, T., Erdik, M. (eds) *Proceedings of the 10th Turkish Conference on Earthquake Engineering. TCEE 2025. Lecture Notes in Civil Engineering*, vol 843. Springer, Cham. https://doi.org/10.1007/978-3-032-20881-1_2

Bekdaş, G., Ocak, A., Nigdeli, S. M., Toklu, Y. C., Kim, S., & Geem, Z. W. (2025). Total Potential Optimization Using Metaheuristic Algorithms for Analysis of Structural Systems. In *Optimization Methods for Finite Element Analysis and Design*. Eds.: Eds. Kale, I.R., Bureerat, S., Rao, R.V.; CRC Press. ISBN: 978-1-032-93210-1

Nigdeli, S. M., Bekdaş, G., Yücel, M., Kayabekir, A. E., Toklu, Y. C. (2022) “Analysis of non-linear structural systems via hybrid algorithms”. In *Intelligent Computing & Optimization - Proceedings of the 4th International Conference on Intelligent Computing and Optimization 2021*

(ICO2021), Eds.: Pandian Vasant, Ivan Zelinka, Gerhard-Wilhelm Weber, Springer International Publishing. ISBN-13: 978-3030932466

Toklu, Y. C., Bekdaş, G., Kayabekir, A. E., Nigdeli, S. M., & Yücel, M. (2020, April). Total potential optimization using metaheuristics: analysis of cantilever beam via plane-stress members. In International Conference on Harmony Search Algorithm (pp. 127-138). Springer, Singapore. eds. S. M. Nigdeli, J. H. Kim, G. Bekdaş, A. Yadav, ISBN-13: 978-9811586026. 595 pp.

Toklu, Y. C., Bekdaş, G., Kayabekir, A. E., Nigdeli, S. M., & Yücel, M. (2020). Total Potential Optimization Using Hybrid Metaheuristics: A Tunnel Problem Solved via Plane Stress Members. In *Advances in Structural Engineering—Optimization* (pp. 221-236). Springer, Cham. <doi.org/10.1007/978-3-030-61848-3_8>

TEMÜR, R., TÜRKAN, Y. S., TOKLU, Y. C. (2015) Geometrically Nonlinear Analysis of Trusses Using Particle Swarm Optimization. In “Recent Advances in Swarm Intelligence and Evolutionary Computation” (Editor: Xin-She Yang) Springer Series: Studies in Computational Intelligence, Vol. 585, pp 283-300., ISBN 978-3-319-13825-1.

Toklu, Y. C., Toklu, N. E. (2013). Analysis of structures by Total Potential Optimization using Meta-heuristic Algorithms (TPO/MA). In Siarry, P. Heuristics : Theory and Applications, Nova Science. Chapter 16. pp. 345-374.

https://www.novapublishers.com/catalog/product_info.php?products_id=38808&osCsid=7df05b8e065eb6af8e8b86c7f7a5e3cc

National congress papers with printed proceedings

Kamil, Ceren; Aktuğ, Okan; Ersoy, Yalçın; Toklu, Yusuf Cengiz; Ünsalan, Ozan (2026) "Türkiye'deki Potansiyel İkinci Ay Regolit Benzeri Numuneler Üzerine Petrografik İnceleme" 24. Ulusal Astronomi Kongresi, 24-28 Ağustos 2026, Erzurum, *to be presented*

Kaya, Y., Bay, İ., Toklu, Y.C. “Effects of Quakes on Earth and Mars on a Tensegric Structure”10. Türkiye Deprem Mühendisliği Konferansı, İstanbul, 8-10 Ekim 2025

Akpınar, P., Toklu, Y.C. (2024) “Developing adequate lunar construction materials for facilitating lunar missions and settlements: an overview” 3rd National Civil Engineering Symposium, North Cyprus, 4-6 December, 2024

Bay, İ., Kaya, Y., Toklu, Y.C. (2024) “General Overview on Water Existence in LUNAR REGOLITH” 3rd National Civil Engineering Symposium, North Cyprus, 4-6 December, 2024

Toklu, Y.C., Özbaşaran, H. (2023) "Eniyilemeli Sonlu Elemanlar Yöntemi" Mühendislikte Bilgisayar Uygulamaları ve Teknolojik Gelişmeler Sempozyumu; TMMOB İnşaat Mühendisleri Odası, 22-23 Aralık 2023, Ankara, Türkiye

Çerçevik, A. E., Toklu, Y. C. (2017). Son Yıllarda İnşaat Mühendisliği Tercih Edilirliğinin Araştırılması Bayraklı, İzmir. 4. İnşaat Mühendisliği Eğitimi Sempozyumu, İnşaat Mühendisleri Odası, 17-18 Kasım 2017, Bayraklı, İzmir

Toklu, Y. C., Çerçevik, A. E. (2015). “Türk üniversitelerine ve inşaat mühendisliği bölümlerine genel bakış”. 3. İnşaat Mühendisliği Eğitim Sempozyumu, İMO, 8-9 Ocak 2016, Ankara.

(Reprinted in Türkiye Mühendislik Haberleri, İnşaat Mühendisleri Odası Dergisi, Vol: 61 No: 491, 2016-3, pp: 36-43)

Yaylı, M. Ö., Çerçevik, A. E., Toklu, Y.C. (2015). Dönmeye Karşı Kontrol Altına Alınmış Basit Mesnetli Çubukların Stoke Dönüşümü Yardımıyla Burkulma Analizi [Stability analysis of simply supported bars under rotational constraints with the help of Stoke Transformation]. XIX. Ulusal Mekanik Kongresi [19th National Congress of Mechanics], 24-28 Ağustos 2015, Karadeniz Teknik Üniversitesi, Trabzon. DOI: [10.13140/RG.2.1.4073.6485](https://doi.org/10.13140/RG.2.1.4073.6485)

Toklu, Y. C., Çerçevik, A. E., Yaylı, M. Ö. (2015). Elastik konsol kirişlerin büyük deformasyon analizi [Large deflection analysis of elastic cantilevers]. XIX. Ulusal Mekanik Kongresi [19th National Congress of Mechanics], 24-28 Ağustos 2015, Karadeniz Teknik Üniversitesi, Trabzon. DOI: [10.13140/RG.2.1.1124.5284](https://doi.org/10.13140/RG.2.1.1124.5284)

Toklu, Y. C. (2015). Yapı mekaniğinde sezgisel algoritma uygulamaları [Structural mechanics applications of metaheuristic algorithms]. XIX. Ulusal Mekanik Kongresi [19th National Congress of Mechanics], 24-28 Ağustos 2015, Karadeniz Teknik Üniversitesi, Trabzon. DOI: [10.13140/RG.2.1.3221.6805](https://doi.org/10.13140/RG.2.1.3221.6805)

Şenay Atabay, Hande Aladağ, Durmuş Akkaya, Haluk Çeçen, Rasim Temur, Erdem Damcı, N. Kemal Öztörün, Cengiz Toklu (2014). İstanbul İçin Sürdürülebilir Kentsel Dönüşüm Seferberliği. 3.PROJE ve YAPIM YÖNETİMİ KONGRESİ. PYYK-2014, 06-08.11.2014, Antalya

Hatipoğlu, Y.S., Ince, C., Derogar, S., Güzeloğlu, T., Toklu, Y.C. (2013). Zeolitın Yığma Yapıdaki Kireç Harçlarının Su Tutma Özelliklerine Etkisi [The effect of zeolite on water sorptivity of lime mortars in masonry structures]. 4. Tarihi Eserlerin Güçlendirilmesi Ve Geleceğe Güvenle Devredilmesi Sempozyumu, 27-29 Kasım 2013, İTÜ, İstanbul

Toklu, Y. C. (2013). Sezgisel Algoritmalarla Toplam Potansiyel Optimizasyonu (SA/TPO) Yöntemi ile Yapısal Analiz [Structural Analysis via Total Potential Optimization using Metaheuristic Algorithms (TPO/MA)]. XVIII. Ulusal Mekanik Kongresi [18th National Congress of Mechanics], 26-30 Ağustos 2013, Celal Bayar Üniversitesi, Manisa

Ş.Atabay,Ş., Aladağ, H., Akkaya, D., Çeçen, H., Ocak, Z., Tekçe, I. A., Öztörün, N. K., Toklu, Y. C. (2012). Yapım Kesiminde Başarım Değerlendirme ve Kıyaslama (DEK) Sisteminin Geliştirilmesi <Development of a System of Construction Evaluating and Benchmarking>. 2. Proje ve Yapım Yönetimi Kongresi (2nd Project and Construction Management Congress), 13 – 16 Eylül 2012, İzmir Yüksek Teknoloji Enstitüsü, Urla-İzmir

Toklu, Y. C., Toklu, N. E., Toklu, S. C. (2012). Büyük Patlama – Büyük Büzülme Yönteminin Kısıtlı Kaynaklı Çizelgeleme Problemlerine Uygulanması [Application of Big Bang - Big Crunch Method to Constrained Scheduling Problems] . 2. Proje ve Yapım Yönetimi Kongresi [2nd Project and Construction Management Congress], 13 – 16 Eylül 2012, İzmir Yüksek Teknoloji Enstitüsü [Izmir Institute of Technology], Urla-İzmir, Turkey

Toklu, Y. C. (2011) "21. yüzyıl ortaları için inşaat mühendisi yetiştirmek [Educating civil engineers for mid 21st century]" İnşaat Mühendisliği Eğitimi 2. Sempozyumu 23-24 Eylül 2011 Muğla, Bildiriler Kitabı, Sinan Altın (ed.), TMMOB İnşaat Mühendisleri Odası, pp. 225-231

TOKLU, Y. C. "Doğal Afetlere Genel Bakış [A general look to natural disasters]" Yeditepe Üniversitesi Acil Tıp Toplantıları – Afet Sempozyumu – 1, 8 - 9 Kasım 2010, İstanbul, S. Sarıkaya and F. Çelikmen (eds.), pp. 22-29

Toklu, Y. C. (2009). "İnşaat mühendisliği eğitiminde yeni eğilimler [New trends in civil engineering education]". 1. İnşaat Mühendisliği Eğitimi Sempozyumu, İMO, 6-7 Kasım 2009, Antalya

AKSIN, I. İ, Y. C. TOKLU, H. S. BALKAN "Linear Programming Enables Finding Better Aggregate Blends" Yöneylem Araştırması ve Endüstri Mühendisliği 27. Ulusal Kongresi (YA/EM 2007) (27th National Congress of Operations Research and Industrial Engineering), İzmir, Turkey, 2-4 July 2007

TOKLU, Y. C., D. ARDITI, T. A. ÇOTUK "Alışılmış yöntemlerle iş planlamasında karşılaşılan sorunlar ve çözüm önerileri" [Problems encountered in classical methods of project planning and suggestions for related solutions], 3. Yapı İşletmesi Kongresi [3rd Congress of Construction Management], İzmir, 29-30 Eylül 2005, pp.272-285, ISBN: 975-395-944-3

TOKLU, Y. C. "Uzay İnşaat Mühendisliği" [Space Civil Engineering] 1. ULUSAL UÇAK, HAVACILIK VE UZAY MÜHENDİSLİĞİ KURULTAYI - BİLDİRİLER [1st Aeroplane, Aeronautics and Space Symposium Proceedings] 12-13 May 2001, MMO YayınNo: E/2001/265 pp.104-108, Eskişehir, Turkey

TOKLU, Y. C. " Türkiye'de Yap-İşlet-Devret Uygulamaları ve Sorunlar [Applications of Build - Operate - Transfer Model in Turkey and Related Problems]", 1. Yapı İşletmesi Kongresi [1st Construction Management Congress], İzmir, 18-19 October 1996, pp. 69-78

TOKLU, Y. C., T. TOKDEMİR. "Large deflection analysis of axially loaded elastic bars", VIIth TUBITAK Science Congress, Kuşadası, 1980, pp. 1101-1109.

Other conferences and publications

Toklu, Y.C., (2024) "Use of Cable-Strut Structures on Space Bodies", The 2024 Lunar Development Virtual Conference, LDC2024, The Moon Society, July 21, 2024

Bay, İ., Kaya, Y., Toklu, Y.C., (2024) "General Overview on Water Existence in Lunar Regolith", The 2024 Lunar Development Virtual Conference, LDC2024, The Moon Society, July 20, 2024



Toklu, Y.C. (2024) "Mesleğimizin Geleceği", Mesleğimiz ve Geleceğimiz Çalıştayı, 21.01.2024, İnşaat Mühendisleri Odası, İstanbul

Toklu, Y. C. (2023) "Yine Yeniden Yetkin Mühendislik" Çelik Yapılar, Kasım-Aralık 2023, Yıl 23, Sayı 85, pp. 52-53.

https://tucsa.org/tr/celik_yapilar_yazi.aspx?yazi=1459

Toklu, Y.C. (2023) "Lunar Regolith, Simulants, and Their Use in Lunar Constructions" Lunar Development Conference 2023, July 15-16, 2023. The Moon Society, Online Conference,

<https://www.moonsociety.org/conferences/2023-ldc/>

Toklu, Y. C. (2021) "İLK TÜRK MALİ AY TOPRAĞI BENZERİ TBG-01" Herkese Bilim Teknoloji (18 Kasım 2021) Sayı: 295, s: 18

Toklu, Y. C. (2017). Uzayda İnşaat Mühendisliği. <Civil Engineering in Space> Türkiye Mühendislik Haberleri, İnşaat Mühendisleri Odası Dergisi, Yıl 62/2017-2 Sayı: 494, pp.20-23.
http://www.imo.org.tr/yayinlar/dergi_goster.php?kodu=1114&dergi=13

Toklu, Y. C., Çerçevik, A. E. (2015). TÜRK ÜNİVERSİTELERİNE VE İNŞAAT MÜHENDİSLİĞİ BÖLÜMLERİNE GENEL BAKIŞ. 3. İnşaat Mühendisliği Eğitim Sempozyumu, İMO, 24-25 Ekim 2015, Ankara. Reprint: Türkiye Mühendislik Haberleri, İnşaat Mühendisleri Odası Dergisi, Yıl 61/2016-3 Sayı: 491, pp.36-43.
http://www.imo.org.tr/yayinlar/dergi_goster.php?kodu=890&dergi=13

Toklu, Y. C., Jarvsrat, N. (2002)"Design and Construction of a Self-Sustainable Lunar Colony With in-Situ Resource Utilisation" Space Resources Roundtable IV, Houston, USA.
https://isruinfo.com/public/index.php?page=srr_4

TOKLU, Y. C. (2000) "Considerations on use of Lunar Regolith in Lunar Constructions", Space Resources Roundtable II, Colorado School of Mines, November 8-10, 2000, LPI Contribution No. 1070, p.73

TOKLU, Y. C., N. YILDIZ (1999) "Conservation and restoration of Gothic monuments in North Cyprus", Int. Conf. Preservation of the Engineering Heritage - Gdansk Outlook 2000, Gdansk, Poland, 7-10 September 1999

TOKLU, Y. C. (1999) "The Role of the Civil Engineer in Design and Construction of a Lunar Base", Int. Scientific and Technical Conference "New Technologies in Islamic Countries", 27-30 June 1999, Almaty, Kazakhstan

TOKLU, Y. C. (1966) "Canakkale Bogazi Gecisi Projesi <The Project of Dardanelles Crossing>", Canakkale Ili Yerlesim ve Cevre Sorunlari Sempozyumu <Symposium on Settlement and Environmental Problems in Çanakkale>, Çanakkale, 9-13 September 1996

TOKLU, Y. C. (1994) "Bina Tasariminda Bilgisayar Kullanimi Yonetmeligi <Approval regulation of computer programs for the design of buildings>", Insaat Muhendisleri Odasi Izmir Subesi Dergisi <Izmir Chamber of Civil Engineers Mensuel>, No 56, pp 5-6, 1994. a

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