

## **Prof. MURAT DİCLELİ**

### **Personal Information**

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### **International Researcher IDs**

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ScopusID: 7003364965

Yoksis Researcher ID: 163550

### **Education Information**

Doctorate, University of Ottawa, Mühendislik Fakültesi, İnşaat Mühendisliği, Canada 1990 - 1993

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1987 - 1989

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1982 - 1987

### **Foreign Languages**

Arabic, B2 Upper Intermediate

English, C2 Mastery

### **Dissertations**

Doctorate, Effect of Extreme Gravity and Seismic Loads on Short to Medium Span Slab-on-Girder Steel Highway Bridges, University Of Ottawa, İnşaat Mühendisliği, 1993

Postgraduate, Inelastic spectral analysis of structural systems under seismic excitation, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1989

### **Research Areas**

Engineering and Technology

### **Academic Titles / Tasks**

Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2009 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2005

- 2009

Associate Professor, Bradley University, Mühendislik Fakültesi, İnşaat ve Yapım Mühendisliği, 2004 - 2005

Assistant Professor, Bradley University, Mühendislik Fakültesi, İnşaat ve Yapım Mühendisliği Bölümü, 2000 - 2004

## Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2012 - Continues

## Advising Theses

DİCLELİ M., Torsional response of seismic isolated buildings considering actual distribution of design coefficient of friction among curved surface sliders, Postgraduate, U.SERGEN(Student), 2021

DİCLELİ M., Comparative assessment of the rocking behavior of seismic isolated bridges, Postgraduate, P.TABIEHZAD(Student), 2021

DİCLELİ M., Evaluation of the accuracy of equivalent linear analysis method for seismic isolated buildings, Postgraduate, S.MUTLU(Student), 2021

DİCLELİ M., Effect of the number of stories and aspect ratio on the seismic performance of base-isolated buildings, Postgraduate, O.ZERMAN(Student), 2021

DİCLELİ M., Development of strength reduction factors for performance-based seismic design of bridges in far-fault seismic regions, Postgraduate, T.Z.S.(Student), 2021

DİCLELİ M., Effect of girder spacing on the construction cost and seismic performance of slab-on-prestressed concrete girder highway bridges, Postgraduate, B.Çağrı(Student), 2020

DİCLELİ M., Development of design equations to estimate live load effects in hammer-head bridge piers, Postgraduate, Ç.Demir(Student), 2019

DİCLELİ M., Damping reduction equation for the equivalent linear analysis of seismic isolated structures subjected to near fault ground motions, Postgraduate, E.Kara(Student), 2019

DİCLELİ M., Proposed minimum restoring force equations for seismic isolated structures, Postgraduate, A.Güenalp(Student), 2019

DİCLELİ M., Comparative seismic performance assessment of continuous slab on girder bridges with multi column pier bent and hammerhead pier for soft and stiff soil conditions, Postgraduate, Ç.İMAMOĞLU(Student), 2018

DİCLELİ M., Comparative seismic assessment of continuous slab on girder bridges with multi column pier bent and hammerhead pier for soft and stiff soil conditions, Postgraduate, Ç.İmamoğlu(Student), 2018

DİCLELİ M., Torsional hysteretic damper for seismic protection of structures, Doctorate, A.SALEM(Student), 2014

DİCLELİ M., Low-cycle fatigue performance of steel H-piles in integral bridges, Doctorate, M.KARALAR(Student), 2014

DİCLELİ M., YAKUT A., Dynamic simulation of shaking table tests for a shearwall building having torsion, Postgraduate, S.NAZİRZADEH(Student), 2012

DİCLELİ M., Effect of vehicular and seismic loads on the performance of integral bridges, Doctorate, S.ERHAN(Student), 2011

DİCLELİ M., Effect of skew on live load distribution in integral bridges, Postgraduate, M.ALİ(Student), 2009

DİCLELİ M., Seismic retrofitting of reinforced concrete buildings using steel braces with shear link, Postgraduate, C.DURUCAN(Student), 2009

DİCLELİ M., An assessment of winkler model for simulation of shallow foundation uplift, Postgraduate, R.BURAK(Student), 2008

DİCLELİ M., Development of a physical theory model for the simulation of hysteretic behavior of steel braces, Postgraduate, E.EMRE(Student), 2007

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

- I. **Effect of dynamic soil-structure interaction modeling assumptions on the calculated seismic response of railway bridges with single-column piers resting on shallow foundations**  
İMAMOĞLU Ç., DİCLELİ M.  
Soil Dynamics and Earthquake Engineering, vol.181, 2024 (SCI-Expanded)
- II. **Live load effects in hammer-head piers of continuous highway bridges and design equations based on numerical simulations verified by field tests**  
Demir C., DİCLELİ M.  
ENGINEERING STRUCTURES, vol.279, 2023 (SCI-Expanded)
- III. **Effect of pile orientation on the fatigue performance of jointless bridge H-piles subjected to cyclic flexural strains**  
Karalar M., DİCLELİ M.  
Engineering Structures, vol.276, 2023 (SCI-Expanded)
- IV. **Comparative seismic behavior assessment of a new damper-equipped and conventional chevron-braced frames**  
Milani A. S., DİCLELİ M.  
Journal of Constructional Steel Research, vol.201, 2023 (SCI-Expanded)
- V. **Novel hysteretic damper to improve the distribution of story drifts and energy dissipation along the height of braced frames**  
Milani A. S., DİCLELİ M.  
ENGINEERING STRUCTURES, vol.260, 2022 (SCI-Expanded)
- VI. **Proposed minimum restoring force requirements for seismic isolated structures**  
DİCLELİ M., Gorgulu A. G.  
ENGINEERING STRUCTURES, vol.228, 2021 (SCI-Expanded)
- VII. **Damping reduction equation for the equivalent linear analysis of seismic isolated structures subjected to near fault ground motions**  
DİCLELİ M., Kara E.  
ENGINEERING STRUCTURES, vol.220, 2020 (SCI-Expanded)
- VIII. **Effect of the high frequency components of near-fault ground motions on the response of linear and nonlinear SDOF systems: A moving average filtering approach**  
Yalcin O. F., Dicleli M.  
Soil Dynamics and Earthquake Engineering, vol.129, 2020 (SCI-Expanded)
- IX. **Low-cycle fatigue in steel H-piles of integral bridges; a comparative study of experimental testing and finite element simulation**  
Karalar M., DİCLELİ M.  
Steel and Composite Structures, vol.34, no.1, pp.35-51, 2020 (SCI-Expanded)
- X. **Fatigue in jointless bridge H-piles under axial load and thermal movements**  
Karalar M., Dicleli M.  
Journal of Constructional Steel Research, vol.147, pp.504-522, 2018 (SCI-Expanded)
- XI. **Incorporation of Skew Effects in Live-Load Distribution Factors Developed for Typical Integral Bridges**  
DİCLELİ M., Yalcin O. F.  
JOURNAL OF BRIDGE ENGINEERING, vol.23, no.2, 2018 (SCI-Expanded)
- XII. **Parametric study on the effect of structural and geotechnical properties on the seismic performance of integral bridges**  
Erhan S., DİCLELİ M.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.15, no.10, pp.4163-4191, 2017 (SCI-Expanded)
- XIII. **Design of Isolated Bridges for Multi-Level Seismic Performance using Gapped Device Connections**  
Dicleli M., Salem Milani A.  
Journal Of Bridge Engineering, vol.22, no.10, pp.79-97, 2017 (SCI-Expanded)
- XIV. **Low-cycle fatigue performance of solid cylindrical steel components subjected to torsion at very large strains**

- Milani A. S., DİCLELİ M.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.129, pp.12-27, 2017 (SCI-Expanded)
- XV. **Effect of thermal induced flexural strain cycles on the low cycle fatigue performance of integral bridge steel H-piles**  
Karalar M., DİCLELİ M.  
Engineering Structures, vol.124, pp.388-404, 2016 (SCI-Expanded)
- XVI. **Systematic development of a new hysteretic damper based on torsional yielding: part I-design and development**  
Milani A. S., DİCLELİ M.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.45, no.6, pp.845-867, 2016 (SCI-Expanded)
- XVII. **Systematic development of a new hysteretic damper based on torsional yielding: part II experimental phase**  
Milani A. S., DİCLELİ M.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.45, no.5, pp.779-796, 2016 (SCI-Expanded)
- XVIII. **A(P)/V-P specific inelastic displacement ratio for seismic response estimation of structures**  
Durucan C., DİCLELİ M.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.44, no.7, pp.1075-1097, 2015 (SCI-Expanded)
- XIX. **Comparative assessment of the seismic performance of integral and conventional bridges with respect to the differences at the abutments**  
Erhan S., DİCLELİ M.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.13, no.2, pp.653-677, 2015 (SCI-Expanded)
- XX. **MARTI and MRSD: Newly Developed Isolation-Damping Devices with Adaptive Hardening for Seismic Protection of Structures**  
Dicleli M., Salem Milani A.  
International Journal Of Civil Engineering, vol.9, no.6, pp.687-691, 2015 (SCI-Expanded)
- XXI. **Effect of dynamic soil-bridge interaction modeling assumptions on the calculated seismic response of integral bridges**  
Erhan S., DİCLELİ M.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.66, pp.42-55, 2014 (SCI-Expanded)
- XXII. **Evaluation of displacement coefficient method for seismically retrofitted buildings with various ductility capacities**  
DİCLELİ M., Durucan C.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.43, no.9, pp.1285-1306, 2014 (SCI-Expanded)
- XXIII. **Critical Truck Loading Pattern to Maximize Live Load Effects in Skewed Integral Bridges**  
DİCLELİ M., Yalcin O. F.  
STRUCTURAL ENGINEERING INTERNATIONAL, vol.24, no.2, pp.265-274, 2014 (SCI-Expanded)
- XXIV. **Comparative Study on the Effect of Number of Girders on Live Load Distribution in Integral Abutment and Simply Supported Bridge Girders**  
Yalcin O. F., DİCLELİ M.  
ADVANCES IN STRUCTURAL ENGINEERING, vol.16, no.6, pp.1011-1034, 2013 (SCI-Expanded)
- XXV. **Effect of lead core heating on the seismic performance of bridges isolated with LRB in near-fault zones**  
Ozdemir G., DİCLELİ M.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.41, no.14, pp.1989-2007, 2012 (SCI-Expanded)
- XXVI. **Parametric analysis of optimum isolator properties for bridges susceptible to near-fault ground motions**  
Karalar M., Padgett J. E., DİCLELİ M.  
Engineering Structures, vol.40, pp.276-287, 2012 (SCI-Expanded)
- XXVII. **Development of a new rubber seismic isolator: 'Ball Rubber Bearing (BRB)'**  
ÖZKAYA C., AKYÜZ U., CANER A., DİCLELİ M., Pinarbasi S.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.40, no.12, pp.1337-1352, 2011 (SCI-Expanded)

- XXVIII. **Optimum characteristic properties of isolators with bilinear force-displacement hysteresis for seismic protection of bridges built on various site soils**  
DİCLELİ M., Karalar M.  
Soil Dynamics and Earthquake Engineering, vol.31, no.7, pp.982-995, 2011 (SCI-Expanded)
- XXIX. **Effect of Foundation Soil Stiffness on the Seismic Performance of Integral Bridges**  
DİCLELİ M., Erhan S.  
STRUCTURAL ENGINEERING INTERNATIONAL, vol.21, no.2, pp.162-168, 2011 (SCI-Expanded)
- XXX. **Analytical study on seismic retrofitting of reinforced concrete buildings using steel braces with shear link**  
Durucan C., DİCLELİ M.  
ENGINEERING STRUCTURES, vol.32, no.10, pp.2995-3010, 2010 (SCI-Expanded)
- XXXI. **Effect of superstructure-abutment continuity on live load distribution in integral abutment bridge girders**  
DİCLELİ M., Erhan S.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.34, no.5, pp.635-662, 2010 (SCI-Expanded)
- XXXII. **Effect of soil-bridge interaction on the magnitude of internal forces in integral abutment bridge components due to live load effects**  
DİCLELİ M., Erhan S.  
ENGINEERING STRUCTURES, vol.32, no.1, pp.129-145, 2010 (SCI-Expanded)
- XXXIII. **Live Load Distribution Formulas for Single-Span Prestressed Concrete Integral Abutment Bridge Girders**  
DİCLELİ M., Erhan S.  
JOURNAL OF BRIDGE ENGINEERING, vol.14, no.6, pp.472-486, 2009 (SCI-Expanded)
- XXXIV. **Effects of soil bridge interaction and abutment deck continuity on the live load distribution factors in integral bridge components** Integral köprülerde hareketli yük dağılımı Yapı-Zemin etkileşimi ve uç-ayak tabliye sürekliliğinin etkileri  
Erhan S., DİCLELİ M.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.20, no.4, pp.4833-4850, 2009 (SCI-Expanded)
- XXXV. **Effects of Soil Bridge Interaction and Abutment Deck Continuity on the Live Load Distribution Factors in Integral Bridge Components**  
Erhan S., DİCLELİ M.  
TEKNIK DERGI, vol.20, no.4, pp.4833-4850, 2009 (SCI-Expanded)
- XXXVI. **Investigation of the Applicability of AASHTO LRFD Live Load Distribution equations for Integral Bridge Substructures**  
Erhan S., DİCLELİ M.  
ADVANCES IN STRUCTURAL ENGINEERING, vol.12, no.4, pp.559-578, 2009 (SCI-Expanded)
- XXXVII. **SEISMIC RETROFITTING OF CHEVRON-BRACED STEEL FRAMES BASED ON PREVENTING BUCKLING INSTABILITY OF BRACES**  
DİCLELİ M., Mehta A.  
INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, vol.9, no.2, pp.333-356, 2009 (SCI-Expanded)
- XXXVIII. **Live load distribution equations for integral bridge substructures**  
Erhan S., Dicleli M.  
ENGINEERING STRUCTURES, vol.31, no.5, pp.1250-1264, 2009 (SCI-Expanded)
- XXXIX. **Effect of soil and substructure properties on live-load distribution in integral abutment bridges**  
DİCLELİ M., Erhan S.  
JOURNAL OF BRIDGE ENGINEERING, vol.13, no.5, pp.527-539, 2008 (SCI-Expanded)
- XL. **Physical theory hysteretic model for steel braces**  
DİCLELİ M., Calik E. E.  
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.134, no.7, pp.1215-1228, 2008 (SCI-Expanded)

- XLI. Performance of seismic-isolated bridges with and without elastic-gap devices in near-fault zones**  
Dicleli M.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.37, no.6, pp.935-954, 2008 (SCI-Expanded)
- XLII. Seismic performance of a special type of single-story eccentrically braced steel frame**  
DİCLELİ M., Mehta A.  
ADVANCES IN STRUCTURAL ENGINEERING, vol.11, no.1, pp.35-51, 2008 (SCI-Expanded)
- XLIII. Comprehensive evaluation of equivalent linear analysis method for seismic-isolated structures represented by sdof systems**  
Dicleli M., Buddaram S.  
ENGINEERING STRUCTURES, vol.29, no.8, pp.1653-1663, 2007 (SCI-Expanded)
- XLIV. Seismic performance of chevron braced steel frames with and without viscous fluid dampers as a function of ground motion and damper characteristics**  
Dicleli M., Mehta A.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.63, no.8, pp.1102-1115, 2007 (SCI-Expanded)
- XLV. Efficient energy dissipating steel-braced frame to resist seismic loads**  
Dicleli M., Mehta A.  
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.133, no.7, pp.969-981, 2007 (SCI-Expanded)
- XLVI. Effect of near-fault ground motion and damper characteristics on the seismic performance of chevron braced steel frames**  
Dicleli M., Mehta A.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.36, no.7, pp.927-948, 2007 (SCI-Expanded)
- XLVII. Supplemental elastic stiffness to reduce isolator displacements for seismic-isolated bridges in near-fault zones**  
Dicleli M.  
ENGINEERING STRUCTURES, vol.29, no.5, pp.763-775, 2007 (SCI-Expanded)
- XLVIII. Simulation of inelastic cyclic buckling behavior of steel box sections**  
Dicleli M., Mehta A.  
COMPUTERS & STRUCTURES, vol.85, pp.446-457, 2007 (SCI-Expanded)
- XLIX. Equivalent linear analysis of seismic-isolated bridges subjected to near-fault ground motions with forward rupture directivity effect**  
Dicleli M., Buddaram S.  
ENGINEERING STRUCTURES, vol.29, no.1, pp.21-32, 2007 (SCI-Expanded)
- L. Performance of seismic-isolated bridges in relation to near-fault ground-motion and isolator characteristics**  
Dicleli M.  
EARTHQUAKE SPECTRA, vol.22, no.4, pp.887-907, 2006 (SCI-Expanded)
- LI. Effect of modifying bearing fixities on the seismic response of short- to medium-length bridges with heavy substructures**  
Hindi R., Dicleli M.  
EARTHQUAKE SPECTRA, vol.22, no.1, pp.65-84, 2006 (SCI-Expanded)
- LII. Improved effective damping equation for equivalent linear analysis of seismic-isolated bridges**  
Dicleli M., Buddaram S.  
EARTHQUAKE SPECTRA, vol.22, no.1, pp.29-46, 2006 (SCI-Expanded)
- LIII. Effect of isolator and ground motion characteristics on the performance of seismic-isolated bridges**  
Dicleli M., Buddaram S.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.35, no.2, pp.233-250, 2006 (SCI-Expanded)
- LIV. Analytical formulation of maximum length limits of integral bridges on cohesive soils**  
Dicleli M., Albhaisi S.  
CANADIAN JOURNAL OF CIVIL ENGINEERING, vol.32, no.4, pp.726-738, 2005 (SCI-Expanded)
- LV. Seismic retrofitting of bridges by response modification techniques based on altering bearing fixities**

- Dicleli M., Hindi R.  
JOURNAL OF EARTHQUAKE ENGINEERING, vol.9, no.4, pp.483-495, 2005 (SCI-Expanded)
- LVI. **Efficiency of Seismic Isolation for Seismic Retrofitting of Heavy Substructured Bridges**  
Dicleli M., Mansour M. Y., Constantinou M. C.  
JOURNAL OF BRIDGE ENGINEERING, vol.10, no.4, pp.429-441, 2005 (SCI-Expanded)
- LVII. **Integral Abutment-Backfill Behavior on Sand Soil-Pushover Analysis Approach**  
Dicleli M.  
JOURNAL OF BRIDGE ENGINEERING, vol.10, no.3, pp.354-364, 2005 (SCI-Expanded)
- LVIII. **Static soil-structure interaction effects in seismic-isolated bridges**  
Dicleli M., Albhaisi S., Mansour M.  
Practice Periodical on Structural Design and Construction, vol.10, no.1, pp.22-23, 2005 (SCI-Expanded)
- LIX. **Analytical prediction of thermal displacement capacity of integral bridges built on sand**  
Dicleli M.  
ADVANCES IN STRUCTURAL ENGINEERING, vol.8, no.1, pp.15-30, 2005 (SCI-Expanded)
- LX. **Prediction of damage in R/C shear panels subjected to reversed cyclic loading**  
Hindi R., Mansour M., Dicleli I.  
JOURNAL OF EARTHQUAKE ENGINEERING, vol.9, no.1, pp.41-66, 2005 (SCI-Expanded)
- LXI. **Estimation of Length Limits for Integral Bridges Built on Clay**  
Dicleli M., Albhaisi S. M.  
JOURNAL OF BRIDGE ENGINEERING, vol.9, no.6, pp.572-581, 2004 (SCI-Expanded)
- LXII. **Nonlinear analysis of R/C low-rise shear walls**  
Mansour M. Y., Dicleli M., Lee J. Y.  
Advances in Structural Engineering, vol.7, no.4, pp.345-361, 2004 (SCI-Expanded)
- LXIII. **Performance of abutment-backfill system under thermal variations in integral bridges built on clay**  
Dicleli M., Albhaisi S.  
ENGINEERING STRUCTURES, vol.26, no.7, pp.949-962, 2004 (SCI-Expanded)
- LXIV. **Predicting the shear strength of reinforced concrete beams using artificial neural networks**  
Mansour M., Dicleli M., Lee J., Zhang J.  
ENGINEERING STRUCTURES, vol.26, no.6, pp.781-799, 2004 (SCI-Expanded)
- LXV. **Effect of cyclic thermal loading on the performance of steel H-piles in integral bridges with stub-abutments**  
Dicleli M., Albhaisi S.  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.60, no.2, pp.161-182, 2004 (SCI-Expanded)
- LXVI. **Seismic retrofitting of highway bridges in Illinois using friction pendulum seismic isolation bearings and modeling procedures**  
Dicleli M., Mansour M.  
ENGINEERING STRUCTURES, vol.25, no.9, pp.1139-1156, 2003 (SCI-Expanded)
- LXVII. **Assessment of Performance of Seismic Isolation System of Bolu Viaduct**  
Roussis P. C., Constantinou M. C., Erdik M., Durukal E., Dicleli M.  
JOURNAL OF BRIDGE ENGINEERING, vol.8, no.4, pp.182-190, 2003 (SCI-Expanded)
- LXVIII. **Maximum length of integral bridges supported on steel H-piles driven in sand**  
Dicleli M., Eng P., Albhaisi S. M.  
Engineering Structures, vol.25, no.12, pp.1491-1504, 2003 (SCI-Expanded)
- LXIX. **Simplified seismic analysis of a class of regular steel bridges**  
Dicleli M.  
ENGINEERING STRUCTURES, vol.24, no.11, pp.1409-1422, 2002 (SCI-Expanded)
- LXX. **Seismic design of lifeline bridge using hybrid seismic isolation**  
Dicleli M.  
Journal of Bridge Engineering, vol.7, no.2, pp.94-103, 2002 (SCI-Expanded)
- LXXI. **Simplified model for computer-aided analysis of integral bridges**  
Dicleli M.

- Journal of Bridge Engineering, vol.5, no.3, pp.240-248, 2000 (SCI-Expanded)
- LXXII. **A rational design approach for prestressed-concrete-girder integral bridges**  
Dicleli M.  
ENGINEERING STRUCTURES, vol.22, no.3, pp.230-245, 2000 (SCI-Expanded)
- LXXIII. **Computer-aided optimum design of steel tubular telescopic pole structures**  
Dicleli M.  
COMPUTERS & STRUCTURES, vol.62, no.6, pp.961-973, 1997 (SCI-Expanded)
- LXXIV. **Quantitative approach to rapid seismic evaluation of slab-on-girder steel highway bridges**  
Dicleli M., Bruneau M.  
Journal of Structural Engineering, vol.122, no.10, pp.1160-1168, 1996 (SCI-Expanded)
- LXXV. **FATIGUE-BASED METHODOLOGY FOR MANAGING IMPACT OF HEAVY-PERMIT TRUCKS ON STEEL HIGHWAY BRIDGES**  
DICLELI M., BRUNEAU M.  
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.121, no.11, pp.1651-1659, 1995 (SCI-Expanded)
- LXXVI. **SEISMIC PERFORMANCE OF SINGLE-SPAN SIMPLY SUPPORTED AND CONTINUOUS SLAB-ON-GIRDER STEEL HIGHWAY BRIDGES**  
DICLELI M., BRUNEAU M.  
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.121, no.10, pp.1497-1506, 1995 (SCI-Expanded)
- LXXVII. **AN ENERGY APPROACH TO SLIDING OF SINGLE-SPAN SIMPLY SUPPORTED SLAB-ON-GIRDER STEEL HIGHWAY BRIDGES WITH DAMAGED BEARINGS**  
DICLELI M., BRUNEAU M.  
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.24, no.3, pp.395-409, 1995 (SCI-Expanded)
- LXXVIII. **Seismic performance of multispan simply supported slab-on-girder steel highway bridges**  
Dicleli M., Bruneau M.  
Engineering Structures, vol.17, no.1, pp.4-14, 1995 (SCI-Expanded)
- LXXIX. **AN ANALYTICAL ASSESSMENT OF ELASTIC AND INELASTIC RESPONSE SPECTRA**  
SUCUOGLU H., DICLELI M., NURTUG A.  
CANADIAN JOURNAL OF CIVIL ENGINEERING, vol.21, no.3, pp.386-395, 1994 (SCI-Expanded)

## Articles Published in Other Journals

- I. **An innovative hysteretic damper with adaptive post-elastic stiffness for seismic protection of bridges**  
DICLELI M., Milani A. S.  
BRIDGE STRUCTURES, vol.11, no.4, pp.131-140, 2015 (ESCI)
- II. **Low cycle fatigue effects in integral bridge steel H-piles under seismic displacement reversals**  
DICLELI M., Erhan S.  
Bridge Structures, vol.9, no.4, pp.185-190, 2013 (ESCI)
- III. **Computer-aided limit states analysis of bridge abutments**  
Dicleli M.  
Electronic Journal of Structural Engineering, vol.1, pp.74-97, 2001 (Scopus)

## Books & Book Chapters

- I. **Integral Bridges**  
Dicleli M.  
in: Innovative Bridge Design Handbook Construction, Rehabilitation and Maintenance, Alessio Pipinato, Editor, ELSEVIER-Butterworth-Heinemann, Oxford, pp.511-541, 2021
- II. **Integral bridges**



DÍCLELI M.

in: Innovative Bridge Design Handbook Construction Rehabilitation and Maintenance, Alessio Pipinato, Editor, ELSEVIER - Butterworth-Heinemann, Boston, pp.16-429, 2016

- III. **Integral Bridges**  
Dicleli M.  
in: Innovative Bridge Design Handbook Construction, Rehabilitation and Maintenance , Pipinato A, Editor, Elsevier Science, Oxford/Amsterdam , Oxford, pp.429-450, 2016
- IV. **Innovative Bridge Design Handbook: Construction, Rehabilitation and Maintenance – Section VI Special Topics: Chapter 19: Integral Bridges**  
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- CX. **Optimal Isolator Parameters for Economical Mitigation of Seismic Risk for Highway Bridges**  
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Dicleli M., Karalar M.  
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- CXIII. **Supplemental Device to Improve the Performance of Seismic-Isolated Bridges in Near-Fault Zones**  
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- CXVI. **Comparison of Live Load Distribution in Girders of Integral and Conventional Bridges**  
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- CXVII. **Effect of soil bridge interaction and abutment deck continuity on the live load distribution factors in integral bridge components**  
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- CXX. **Effect of soil-bridge interaction on the distribution of live load effects among integral bridge components**  
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- CXXXIV. **Performance of Seismic-Isolated Bridges as a Function of Isolator and Ground Motion Properties in Near-Fault Zones**  
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- CXXXIX. **Effect of Thermal-Induced Displacements on the Performance of Integral Bridge Abutment-Backfill System**  
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- CXXXII. **Innovative Seismic Design of Bridge Bents Based on Rocking**  
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Fifth International Conference on Earthquake Resistant Engineering Structures, Athens, Greece, 01 May 2005, pp.1-10
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5th International Conference on Earthquake Resistant Engineering Structures, Skiathos, Greece, 30 May - 01 June 2005, vol.81, pp.259-267
- CXXXIV. **Innovative Seismic Retrofitting Method for Bridges with Wall Type Piers in Illinois**  
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- CXXXV. **Importance of Soil-Bridge Interaction Modelling in Seismic Analysis of Seismic Isolated Bridges**  
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13th World Conference on Earthquake Engineering, Vancouver, Canada, 01 August 2004, pp.1-15

- CXXXVI. **Proposed Seismic Retrofitting Method for Bridges with Multiple-Column Bents**  
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- CXXXVII. **Maximum Length of Integral Bridges Based on the Performance of Steel H-Piles at the Abutments**  
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- CXLII. **Performance of the Seismically Isolated Bolu Viaduct in the 1999 Duzce Earthquake in Turkey**  
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- CXLIV. **Hybrid Seismic Base Isolation Design for Mississippi River Bridge**  
Dicleli M.  
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- CXLV. **A Quantitative Approach for Rapid Seismic Vulnerability Assessment of Steel Highway Bridges**  
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- CXLVI. **Seismic Resistance of A Class of Slab-On-Girder Steel Highway Bridges**  
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- CXLVII. **Seismic Response of Multi-Span Simply Supported Bridges Having Steel Columns**  
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- CXLVIII. **Non-Linear Seismic Response of Single Span Simply Supported Slab-On-Girder Steel Highway Bridges With Damaged Bearings**  
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Seventh Canadian Conference On Earthquake Engineering, Montreal, Canada, 01 January 1995, pp.1-10
- CXLIX. **Cumulative Impact of Heavy Permit Trucks on Steel Bridges**  
Dicleli M., Bruneau M.  
ASCE Structures Congress on Bridge Structures, Georgia, United States Of America, 01 January 1994, pp.1-10

## Patent

Dicleli M., Torsion Hysteretic Damper, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: TTO-70 , Standard Registration, 2021

Dicleli M., Amortisseur a Torsion, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: EP3445928 , 2020

Dicleli M., Burulmalı Damper, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: TR 2020 17925 T4 , Standard Registration, 2020

Dicleli M., TORSIONAL HYSTERETIC DAMPER, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: US 10,563,417 B2 , Standard Registration, 2020

Dicleli M., Çok Yönlü Uyarlanabilir Yeniden Merkezleyici Burulmalı İzolatör, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: TR 2018 01822B , 2020

Dicleli M., Torsional Damper, Patent, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 17 85 3559.7 , Standard Registration, 2020

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DİCLELİ M., Multi-Directional Torsional Hysteretic Damper, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, Standard Registration, 2015

DİCLELİ M., Multi-Directional Torsional Hysteretic Damper, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, Standard Registration, 2015

## Activities in Scientific Journals

Multi-scale and Multiphysics Mechanics, Techno Press, Committee Member, 2017 - Continues

Coupled Systems Mechanics, Techno-Press, Committee Member, 2017 - Continues

The Open Construction & Building Technology Journal, Bentham Science , Committee Member, 2016 - Continues

American Journal of Civil Engineering, Committee Member, 2016 - Continues

Journal of Civil Engineering and Architecture, David Publishing Company, Committee Member, 2015 - Continues

ISRN Civil Engineering, Hindawi Publishing, Committee Member, 2015 - Continues

## Memberships / Tasks in Scientific Organizations

IABMAS (International Association for Bridge Maintenance and Safety), Member, 2002 - Continues

PCI - Prestressed Concrete Institute, Member, 2001 - Continues

NEES (Network for Earthquake Engineering Simulation) Consortium, Member, 2001 - Continues

ASCE - American Society of Civil Engineering, Member, 2000 - Continues

PEO (Professional Engineers Association, Ontario), Member, 1996 - Continues

TMMOB İnşaat Mühendisleri Odası, Member, 1987 - Continues

## Scientific Refereeing

EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, SCI Journal, October 2020

BULLETIN OF EARTHQUAKE ENGINEERING, SCI Journal, October 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, September 2020

ENGINEERING STRUCTURES, SCI Journal, May 2020

STRUCTURE AND INFRASTRUCTURE ENGINEERING, SCI Journal, March 2020

BULLETIN OF EARTHQUAKE ENGINEERING, SCI Journal, December 2018

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ENGINEERING STRUCTURES, SCI Journal, October 2018  
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, SCI Journal, September 2018  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, September 2018  
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JOURNAL OF BRIDGE ENGINEERING, SCI Journal, June 2018  
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FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, Journal Indexed in SCI-E, June 2018  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, May 2018  
ENGINEERING STRUCTURES, SCI Journal, May 2018  
EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION, SCI Journal, April 2018  
JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, April 2018  
ENGINEERING STRUCTURES, SCI Journal, April 2018  
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JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, SCI Journal, March 2018  
JOURNAL OF BRIDGE ENGINEERING, SCI Journal, February 2018  
SHOCK AND VIBRATION, SCI Journal, February 2018  
ADVANCES IN STRUCTURAL ENGINEERING, SCI Journal, January 2018  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, January 2018  
ENGINEERING STRUCTURES, SCI Journal, January 2018

## **Metrics**

Publication: 243  
Citation (WoS): 1245  
Citation (Scopus): 1654  
H-Index (WoS): 21  
H-Index (Scopus): 25

## **Congress and Symposium Activities**

10th International Conference on Short and Medium Span Bridges, Moderator, Quebec, Canada, 2018  
13th International Conference on Steel, Space and Composite Structures, Working Group, Perth, Australia, 2018

## **Invited Talks**

International Conference on Engineering Innovation and Seismic Mitigation of Bridges (ICESMB 2020), Conference, Orta Doğu Teknik Üniversitesi, China, November 2020  
Seismic Isolation of Buildings: Concept, Implications and Necessity for Hospitals and Turkish Ministry of Health Guidelines, Seminar, Bakü Devlet Üniversitesi, Azerbaijan, November 2018

## **Awards**

Dicleli M., Yayın Teşvik Ödülü, Odtü, November 2018  
Dicleli M., Yayın Teşvik Ödülü, Odtü, July 2018  
Dicleli M., Performns Ödülü (İlk %5), Odtü, July 2018

**Non Academic Experience**

METU  
METU