

## Personal Information

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## Education Information

Doctorate, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2004 - 2012

Post Graduate, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2002 - 2004

Under Graduate, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1997 - 2002

## Foreign Languages

English

## Dissertations

Doctorate, Betonarme elemanların plastisite ve hasar mekaniği esasları kullanılarak doğrusal olmayan analizi, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2012

Post Graduate, Betonarme Yüksek Binalarda Sünme Büzülme Ve Sıcaklık Etkilerinin Yapım Süresince Kontrolü, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2004

## Research Areas

Technical Sciences, Civil Engineering, Structure, Structural Engineering, Concrete Structures

## Academic Titles / Tasks

Research Assistant, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2005 - Continues

## Courses

Betonarme-I, Under Graduate, 2016 - 2017

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Centrifuge modeling testing and multiscale analysis of cemented sand and gravel (CSG) dams**  
Chen J., Cai X., Lale E., Yang J., Cusatis G.  
CONSTRUCTION AND BUILDING MATERIALS, vol.223, pp.605-615, 2019 (Journal Indexed in SCI)
- **Homogenization coarse graining (HCG) of the lattice discrete particle model (LDPM) for the analysis of reinforced concrete structures**  
Lale E., Rezakhani R., Alnaggar M., Cusatis G.  
ENGINEERING FRACTURE MECHANICS, vol.197, pp.259-277, 2018 (Journal Indexed in SCI)
- **Isogeometric Implementation of High-Order Microplane Model for the Simulation of High-Order Elasticity,**

### **Softening, and Localization**

Lale E., ZHOU X., Cusatis G.

JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME, vol.84, 2017 (Journal Indexed in SCI)

- **Non-linear analysis of steel fibre reinforced concrete-filled steel tube columns**

Guler S., Lale E., AYDOGAN M.

PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.166, pp.298-306, 2013 (Journal Indexed in SCI)

- **BEHAVIOUR OF SFRC FILLED STEEL TUBE COLUMNS UNDER AXIAL LOAD**

Lale E., Guler S.

ADVANCED STEEL CONSTRUCTION, vol.9, no.1, pp.14-25, 2013 (Journal Indexed in SCI Expanded)

## **Refereed Congress / Symposium Publications in Proceedings**

- **3D FINITE ELEMENT SIMULATIONS OF REINFORCED CONCRETE ELEMENTS EXPOSED TO FIRE**

Lale E., Ceccato C.

14th International Conference on Computational Plasticity - Fundamentals and Applications (COMPLAS), Barcelona, Spain, 5 - 07 September 2017, pp.712-722

- **Ultra - High Performance Concrete Compression and Fracture Response Parameters for Lattice Discrete Particle Model Simulations**

EL-HELOU R. G. , Lale E., CUSATIS G., MOEN C.

First International Interactive Symposium on UHPC – 2016, Des Moines, Iowa, United States Of America, 18 - 20 July 2016, pp.1-11

- **ISOGEOMETRIC IMPLEMENTATION OF THE HIGH-ORDER MICROPLANE MODEL FOR SOFTENING AND LOCALIZATION**

Lale E., CUSATIS G.

9th International Conference on Fracture Mechanics of Concrete and Concrete Structures, Berkeley, United States Of America, 29 May - 01 June 2016, vol.1, pp.1-8

- **Homogenization-based coarse graining framework for the analysis of reinforced concrete structural elements**

Lale E., Rezakhani R., ALNAGGAR M., CUSATIS G.

Engineering Mechanics Institute Conference 2015, Palo Alto, United States Of America, 16 - 19 June 2015, pp.1

- **Lattice discrete particle modeling of buckling deformation in thin ultra-high-performance fiber-reinforced concrete plates**

EL-HELOU R., MOEN C., Lale E., CUSATIS G.

EURO-C 2014 Conference, St. Anton am Arlberg, Austria, 24 - 27 March 2014, vol.1, pp.365-371

- **An elasto-plastic damage model for concrete**

Lale E., AYDOGAN M.

11th International Conference on Computational Plasticity, COMPLAS XI, Barcelona, Spain, 7 - 09 September 2011, pp.1584-1595

## **Scientific Refereeing**

Arabian Journal for Science and Engineering, SCI Journal, January 2017

Journal of Engineering Mechanics, ASCE, SCI Journal, January 2016

## **Citations**

Total Citations (WOS):12

h-index (WOS):2

## Scholarships

2219 Yurtdışı Doktora Sonrası Araştırma Burs Programı, University, 2013 - Continues

2211 Yurt İçi Doktora Burs Programı, University, 2006 - Continues