



ACE 2014

11th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 25 OCTOBER 2014 ISTANBUL / TURKEY



KEYNOTE LECTURE-1, ORAL BÜYÜKÖZTÜRK, 21 OCTOBER 2014 TUESDAY, 09:30-10:15, MAIN HALL

Session Chair Mehmet Ali Taşdemir (İTÜ)

KEYNOTE LECTURE-2, TOSHIMI KABEYASAWA, 21 OCTOBER 2014 TUESDAY, 10:15-11:00, MAIN HALL

Session Chair Zeki Hasgür (İTÜ)

KEYNOTE LECTURE-3, GARETH H. MCKINLEY, 21 OCTOBER 2014 TUESDAY, 14:00-14:45, MAIN HALL

Session Chair Necati Ağırlioğlu (İTÜ)

KEYNOTE LECTURE-4, JIN-GUANG TENG, 21 OCTOBER 2014 TUESDAY, 14:45-15:30, MAIN HALL

Session Chair Gülay Altay (Boğaziçi University)

KEYNOTE LECTURE-5, ERIK SCHLANGEN, 22 OCTOBER 2014 WEDNESDAY, 09:00-09:45, MAIN HALL

Session Chair Turan Özturan (Boğaziçi University)

KEYNOTE LECTURE-6, MIHAİLO D. TRIFUNAC, 22 OCTOBER 2014 WEDNESDAY, 09:45-10:30, MAIN HALL

Session Chair Mustafa Erdik (Kandilli Observatory)

KEYNOTE LECTURE-7, MARKOS PAPAGEORGIOU, 22 OCTOBER 2014 WEDNESDAY, 13:30-14:15, MAIN HALL

Session Chair Abdullah Hilmi LAV (İTÜ)

KEYNOTE LECTURE-8, ROHAN ABEYARATNE, 23 OCTOBER 2014 THURSDAY, 09:00-09:45, MAIN HALL

Session Chair Nihat Berker (Sabancı University)

KEYNOTE LECTURE-9, TUNCER B. EDİL, 23 OCTOBER 2014 THURSDAY, 14:15-15:00, MAIN HALL

Session Chair Mete İncecik (İTÜ)

KEYNOTE LECTURE-10, DAVID ARDITI, 24 OCTOBER 2014 FRIDAY, 09:00-09:45, MAIN HALL

Session Chair Murat Günaydın (İTÜ)



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BM-1, 21 OCTOBER 2014 TUESDAY, 11:30-13:00, HALL 1

Session Chair Oguz Gunes (İTÜ)

1030	Shrinkage and Strength Characteristics of Self Compacting Concretes Partially Including Cold-Bonded Lightweight Fly Ash Aggregates	Diler Sabah Erhan Hatice Öznur Mehmet Turan Ayda Safak	Asaad Güneyisi Öz Gesoglu Özturan Agar Ozbek
1053	Mesoscopic Analysis of Porous Concrete under Impact Loading	Jaap Ronnie Refstrup	Weerheijm Pedersen
1068	Use of pre-wetted lightweight aggregates as an internal nutrient source in bio-mineralized mortar	Mary Jo Raissa Zeynep Kim Hung	Kirisits Ferron Basaran Mo
1696	Effects of Polypropylene Fibres on the Mechanical Properties of Structural Lightweight Oil Palm Shell Concrete	Mohd Zamin Soon Poh U. Johnson	Jumaat Yap Alengaram
1125	Key Properties of Self-consolidating Lightweight Concrete Containing High-volume of Pumice Powder	Alireza Babak Jamil Jamshid	Rostamimehr Atashfaraz Kasaei Esmaeili
1734	INVESTIGATION OF COMPRESSIVE STRENGTH AND ULTRASONIC PULSE VELOCITY OF POLYMER IMPREGNATED CONCRETE AFTER BEING EXPOSED TO HIGH TEMPERATURE	Erol Harun Kenan Murat	ÇİL TANYILDIZI KORAN ŞAHİN



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BM-2, 21 OCTOBER 2014 TUESDAY, 16:00-17:30, HALL 2

Session Chair **Özkan Şengül (İTÜ)**

1667	EFFECTS ACTIVATOR PROPERTIES ON THE STRENGTH OF ALKALI ACTIVATED SLAG MORTARS	Caner Özkan	Elibol Şengül
1156	Durability performance of HPC incorporating pozzolana cured in sea water	Abdenmour Rabah Youcef Ahsanollah	BOUCHOUKA CHAID GHERNOUTI BEGLARIGALE
1108	Permeability Characterization of Concrete Incorporating Fly Ash	Farhad Halit Hüseyin ERHAN	GHAJERI YAZICI YİĞİTER GÜNEYİSİ
1228	Utilization of neural networks for prediction of compressive strength of concretes incorporating volcanic ash	KASIM MEHMET MEHMET	MERMERDAŞ SAKİN GESOĞLU
1755	Determination of the Compressive and Flexural Strength of F Class Fly Ash Partial Replaced Concrete by Using Artificial	Adnan Onur	Öner Öztürk
1721	Effect of replacement materials on crack propagation under compressive loading, Evaluation with computed tomography method	Hamed Tulin	Rajabpour Akcaoglu



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BM-3, 21 OCTOBER 2014 TUESDAY, 17:30-19:00, HALL 2

Session Chair **Özkan Şengül (İTÜ)**

1059	ESTIMATING COMPRESSIVE STRENGTH OF STEEL FIBER REINFORCED CONCRETE BY MATURITY METHOD	Özgür Saeid	Eren Kamkar
1718	Effects of Fiber Type on Mechanical Properties of Concrete	Cenk Yıldırım	Karakurt Bayazit
1002	Behavior of Steel-Polypropylene Hybrid Fiber Reinforced Concrete (HyFRC)	Özgür Golnaz	Eren Moghimi
1126	An Investigation on the Effect of Polypropylene Fibers on Strength and Transport Properties of Self-Consolidating Lightweight Concrete	Alireza Babak Jamil Jamshid	Rostamimehr Atashfaraz Kasaei Esmaili
1178	The Influence of Fiber-Matrix Bond Characteristics on Tensile Performance of SIFCON	Ahsanollah Çağlar Halit Muhammer	BEGLARIGALE YALÇINKAYA YAZICI KESKİNATEŞ
1325	VISCOELASTIC BEHAVIOUR OF HYBRID BUILDING MATERIALS	G. G.C.	Lagas Papanicolaou
1726	Effect of silica fume and calcined clays as Algerian pozzolanic materials on the properties of ultra-high performance fiber reinforced concrete (UHPRC)	Bahia Khaled Youche	RABEHI BOUMCHEDDA GHERNOUTI



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BM-4, 22 OCTOBER 2014 WEDNESDAY, 11:00-12:30, HALL 1

Session Chair **Hulusi Özkul (İTÜ)**

1054	Impact Strength Measurement Method for Porous Concrete Using High Speed Photography	Ayda Safak Erik Jaap Klaas Ayumi	Agar Ozbek Schlangen Weerheijm van Breugel Satoh
1402	Enhancing mechanical properties of concrete - repair interface with controlling material properties of repair	Kanji Miho Bachir	Yamada Satoh Redjel
1114	Study of Tenacity of Concrete Polymer Isobeton	Khaled Mohamed Mouloud	Boudjellal Bouabaz Belachia
1660	Mechanical properties of concrete containing recycled tire rubber particles	Feng Lan Li-juan Sheng-hua	Liu Zeng Li Ruan
1560	The Effect of Mixture Ratios of Concrete with Mineral Additives on Permeability of Concrete	Ali Osman Erman Fulya Önder	ATAHAN DERİN GÜLEN KIRCA
1049	The Effect of Colloidal Nano-Silica as Cementitious Material, on Durability and	Umur Korkut Mustafa Niloufar	SEVİM Hulusi Özkul Zabihi



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BM-5, 22 OCTOBER 2014 WEDNESDAY, 14:30-16:00, HALL 2

Session Chair Nilüfer Özyurt Zihnioğlu (Boğaziçi University)

1369	Alkali-Silica Reaction Expansions and the Extent of Alkali Leaching in Concretes Including Basalt and Waste Glass as Aggregate	Ahsanollah Ali Cihat Halit Kambiz Özge Mehmet Ali Yılmaz Yuşa Ahmet Sedat Şükrü Yusuf Halil İbrahim İsmail Özgür Mehran Serdar Esra Kürşat Esat Çağatay M. Siddik Yasin Abdelaziz Mehdi Mohamed Mohammed	BEGLARIGALE MARDANI-AGHABAGLOU YÜKSEL YAZICI RAMYAR ANDIÇ-ÇAKIR TAŞDEMİR AKKAYA ŞAHİN ÇAVDAR SEVİN YETGİN KAYA Andiç Yaman Ghasabeh Göktepe Tuğrul Alyamaç Belgin Şener Çağlar Benmarce Benzaid Guenfoud Himeur
1476	Investigation of Effect of Testing Conditions on the Frost Resistance of Concrete		
1503	The Mechanical Properties of Polymer Modified Mortars under Freeze-Thaw Effects		
1465	THERMOMECHANICALLY COUPLED MODELING OF CEMENT HYDRATION AND ITS IMPLICATIONS IN EARLY-AGE CONCRETE BEHAVIOUR		
1600	A Durable, Eco-Friendly and Aesthetic Concrete Work: Marble Concrete		
1549	Size Effect Tests for Type I And Type II		
1485	Silica fume and superplasticizer effect on producing high strength concrete		



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BM-6, 23 OCTOBER 2014 THURSDAY, 10:00-11:30, HALL 1

Session Chair **Hakan Nuri Atahan (İTÜ)**

1699	Effect of compressive strength on the transport properties of oil palm shell concrete	Kim Hung Michael Yong Jir Liu Mohd Zamin Soon Poh U. Johnson	Mo Jumaat Yap Alengaram
1375	A study of mechanical strengths of concrete mixed cotton dust as reinforcing material	Borvorn Preecha Yothin	Israngkura Na Ayudhya Chantawong Ungkoon
1737	Mechanical Properties and Shrinkage and Expansion Assessment of Rice Husk Ash Concrete and its Comparison	Hamed Omolbanin A.Petek	Ahmadi Moghadam Arasteh Khoshbin Gursel
1775	Merging Mechanical and Environmental Performance of Turkish Fly Ash-Portland Cement Mortars	Cagla Meltem Adil Orçun	Meral Tangler Kaya
1743	Determination of Ultimate Strength of Roller Compacted Concrete with Accelerated Curing	Hasan Özkan	Yıldırım Şengül
1754	Effect of bentonite on the rheological behavior of cement grout in presence of superplasticizer	Abdelbaki Khaled	Benmounah BENYOUNES



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BM-7, 23 OCTOBER 2014 THURSDAY, 17:15-18:45, HALL 1

Session Chair **Kasım Mermerdaş (Hasan Kalyoncu University)**

1498	Glass Fiber Reinforced Polyester Composite Structural System Used for Greenhouses	Alina Elena Cristina Emanue Emanuela Gabriela Maria CEYHUN M.HAKAN Ş. ENGİN	Toma Lanivski Decher Atanasiu AKSOYLU ARSLAN MENDİ
1694	A Comparative Study on Computer Simulation of Sound Insulation in Buildings	Guettala Cagla Gokce Ozgur khedidja mouloud waseela	Abdelhamid Meral Ozcelik Pasaoglu ait mokhtar belachia boughamsa
1707	Durability of cement and cement plus resin stabilized earth blocks	Cengiz iskender A. Mehmet Ali Süleyman Teoman Üner	Şengül Reyhancan Taşdemir Özen Erenoğlu Çolak
1320	Life-Cycle Assesment Analysis of a Typical Drywall System in Turkey		
1582	HDPE MODIFIED BITUMEN		
1547	DESIGN AND PHYSICAL PROPERTIES OF HEAVYWEIGHT CONCRETES USED FOR STRUCTURAL AND RADIATION SHIELDING PURPOSES		



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BM-8, 24 OCTOBER 2014 FRIDAY, 10:00-11:30, HALL 1

Session Chair Hasan Yıldırım (İTÜ)

1083	Mechanical Properties of Lightweight Rubberized Concrete Made With Cold Bonded Fly Ash Pellets	Hasan Turan A.Orçun	Yildirim Ozturan Kaya
1670	Effect of Recycled Wash Water on the Compressive Strength of Concrete	Haluk Hasan Ozkan	Atasoy Yıldırım Sengul
1099	USE OF FINES RECYCLED IN CONCRETE SAND	Mouloud Rachid	BELACHIA DJEBIEN
1453	THE USING OF WASTE MATERIAL MARBLE DUST IN ADOBE STABILIZATION	AYSE	PEKRIOGLU BALKIS
1009	ENHANCED DURABILITY AGAINST EXTERNAL SULFATE ATTACK: EFFECT of NANO and MICRO CEMENTITIOUS	Hakan Nuri Koray Oguz	Atahan Arslan Gunes
1780	Developments in High Performance Fiber Reinforced Cementitious Composites	Mehmet Ali Didem	Tasdemir Yaşar Oktay



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BM-9, 24 OCTOBER 2014 FRIDAY, 12:00-13:30, HALL 3

Session Chair Ünal Anıl Doğan (İTÜ)

1213	Characterization at early age and at long-term of heat-treated self-compacting concrete : Influence of the use of the	benmalek derabla	mohamed larbi riad
1316	Effect of the Concrete Mix Design on Environmental and Thermal Performance of Concrete Based External Wall Systems	Cagla Alireza Ozgur	Meral Sassani Pasaoglu
1221	Effect of Type and Performance of Plasticizer on the Mechanical Properties of Concretes: SCC vs Conventional Concrete	Bekir Yılmaz Erman Yiğit Hakan Nuri Egemen	Pekmezci Tuncel Atahan Kesler
1739	Determination of curing procedure for a massive precast segment production	Gözde Olca Yılmaz Ali Raif	Kurt Bulutlar Ural Akkaya Sağlam
1260	EFFECT OF EVA ADDITION ON FRESH AND HARDENED PROPERTIES OF SELF COMPACTING MORTARS	M. Hulusi Özgür Ünal Anıl Bülent	Özkul Ekincioglu Doğan Baradan
1181	Durability of Concrete	Halit Muhammer Serdar	Yazıcı Keskinates Aydın



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BM-10, 24 OCTOBER 2014 FRIDAY, 14:15-15:45, HALL 1

Session Chair **Özgür Ekinciöglu (Okan University)**

1449	The investigation of the mechanical properties of post-installed epoxied anchorage bars in concrete under axial	Ali Fatma AHMET	Ergün Altan ÇAVDAR
1532	The Mechanical Properties of Polymer Modified Mortars under High Temperature	SEDAT ŞÜKRÜ YUSUF	SEVİN YETGİN KAYA
1541	USE OF NBR WASTE IN BITUMEN AND BITUMINOUS CONCRETE	SMAIL	HADDADI
1020	A COMPARISON OF PROPERTIES BETWEEN CONVENTIONAL AND LIGHTWEIGHT AGGREGATE STRUCTURAL CONCRETES	Hakan Nuri Murat Emre Şengül	Atahan Dilli Cengiz
1419	UTILIZATION OF WASHOUT WATER IN READY-MIXED CONCRETE PRODUCTION	M. Hulusi U. Anil BEDDAR	OZKUL DOGAN Miloud
1423	Influence of The Limestone Admixture on The Physico-Chemical Properties of Cements	BOUBAKRIA HADDA MEDDAH MHAMMEDI	Mohamed Naoui Abdelaziz Halima Saadia



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CM-1, 21 OCTOBER 2014 TUESDAY, 11:30-13:00, HALL 2

Session Chair **Esin ERGEN PEHLEVAN (İTÜ)**

1079	QUANTIFYING THE BENEFITS OF BUILDING INFORMATION MODELLING	Esin Saniye Alireza Changiz Navid	Ergen Öktem Rezaei Ahabab Sanei Sistani
1232	Building Information Modelling as a New Teaching Tool in Civil Engineering Education	Alireza Amirkasra David Julide Ashwin Carrie Sturts	Rezaei Honarpisheh Arditi Demirdoven Mahalingam Dossick
1161	Application of Building Information Modeling in Highway Projects	John E. Josh Pauli Semra Timo	Taylor lorio Alin Çomu Hartmann
1531	Advancing BIM in the Construction Management and Engineering Curriculum		
1048	Virtual Workspaces in Architecture, Engineering and Construction: Challenges, Opportunities and Future Directions		



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CM-2, 21 OCTOBER 2014 TUESDAY, 16:00-17:30, HALL 4

Session Chair Haluk ÇEÇEN (YTÜ)

Session Chair Deniz ARTAN İLTER (İTÜ)

1154	Performance - Based Contracting and Private Finance Initiative (PFI) Project Legal Framework – Any Relation?	RIFAT	AKBIYIKLI
1199	DETERMINATION OF THE RISK FACTORS AFFECTING THE PUBLIC PRIVATE PARTNERSHIP (PPP) TRANSPORTATION	HANDE ZEYNEP	ALADAĞ IŞIK
1564	APPLICATION OF CONSTRUCTION MANAGER AS CONSTRUCTOR PROJECT DELIVERY SYSTEM IN PUBLIC PROJECTS OF A DEVELOPING COUNTRY: EXAMPLE OF TURKEY	ikbal	erbas
1157	New Public Management (NPM) and Private Finance Initiative (PFI) in the UK – The Third Way	RIFAT	AKBIYIKLI
1058	Infrastructure Asset Management: Case of Istanbul Ataturk Airport Terminal Building	Beliz Sadik	Ozorhon Yigit



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CM-3, 22 OCTOBER 2014 WEDNESDAY, 11:00-12:30, HALL 2

Session Chair	Emrah ACAR (İTÜ)		
1123	Activity-Based Occupational Health and Safety Risk Assessment on Construction Projects	G. Emre Senem	Gurcanli Bilir
1155	Construction Safety in Kingdom of Saudi Arabia	Alireza Ashraf Jihad	Rezaei Awad
1686	Comparison of Occupational Health and Safety in Construction Industry of Australia and Turkey	Emad Gurkan Emre	Ghavam Gurcanli
1724	A Construction Safety Directive	BEGÜM HALUK	SERTYEŞİLİŞİK ÇEÇEN
1746	"Chechen Protection System" for Highrise Building Construction	HANDE HALUK HANDE	ALADAĞ ÇEÇEN ALADAĞ



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CM-4, 22 OCTOBER 2014 WEDNESDAY, 14:30-16:00, HALL 4

Session Chair **Zeynep IŞIK (Yildiz Technical University)**

1265	Environmental Performance Indicators (EPIs) for Contractor Firms	Cagri Ceren Deniz Hena	SONMEZ SAHIN ILTER ORS
1482	Contribution to the sustainability assessment of residential buildings in Algeria - Study of the energy aspect	CHERRARED MOUSSAOUI	Marzouk Fahem
1029	Building Orientation Effect on Energy Consumption of Residential Units: Case Study of Famagusta	Seyedvahid Tahir Yashar	Mirnoori Celik Mohamadi
1454	Review of Building Free Cooling System Coupled with Phase Change Material	Saeed	Kamali
1102	Optimum insulation thicknesses for building walls in Mediterranean Region	Tahir Yashar	Celik Mohamadi



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CM-5, 23 OCTOBER 2014 THURSDAY, 12:00-13:30, HALL 2

Session Chair **Cenk BUDAYAN (Yildiz Technical University)**

1257	CIVIL ENGINEERING APPLICATIONS OF METAHEURISTIC METHODS	Ali Erdem Hasan Yusuf Cengiz Ekrem	ÇERÇEVİK BOZKURT TOKLU Manisalı
1607	Time Cost Trade Off Optimization Using Harmony Search and Monte-Carlo Method	Mohammad Lan Zalmi Osman Hürol Badreddine	Zalmi Türkakın Belghoul
1116	Soft Computing Methods in Predicting the Running Cost for Rehabilitation and Maintenance of Buildings	Khaled Mohamed Mourad Atilla	Boudjellal Bouabaz Mordjaoui Damci
1013	Modeling Bid/No Bid Decision Using Data Envelopment Analysis (DEA): A Case Study	Befrin Neval Enis Gul Ekrem	Bingol Uysalol Polat Manisalı
1626	MULTI-CRITERIA MARBLE SELECTION USING AN ELECTRE-AHP APPLICATION	Mustafa Nabi Osman Hürol	Kocakaya Türkakın



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CM-6, 23 OCTOBER 2014 THURSDAY, 15:15-16:45, HALL 2

Session Chair **Begüm SERTYEŞİLİŞİK (İTÜ)**

1051	Partnering and community engagement as enablers of innovation and best practice	Beliz	Ozorhon
1039	Investigation of Knowledge Management based on Nonaka and Takehuchi Model in Governmental Organizations of Construction Industry	aidin alireza	ghaffarioskouei rezaei
1481	Informal Learning, Knowledge Construction and Social Media: The Case of Construction Professionals	Emrah Ramtin	Acar Etemadi
1579	Cash Inflow Delay Impact on Leverage Ratio for Construction Projects	Özlem Şafak	TÜZ EBESEK
1150	TECHNOLOGY TRANSFER IN CONSTRUCTION INDUSTRY	Gökhan Zeynep	DEMİRDÖĞEN IŞIK



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CM-7, 23 OCTOBER 2014 THURSDAY, 17:15-18:45, HALL 2

Session Chair **Murat GÜNAYDIN (İTÜ)**

1158	Risk Management in Nigerian Construction Industry	Alireza Aliyu Bashir Atilla	Rezaei Aminu Damci
1008	FACTORS CONSIDERED BY TURKISH CONTRACTORS IN MARK-UP SIZE DECISION FOR PUBLIC CONSTRUCTION PROJECTS	Befrin Neval Bulent Gul Hasan	Bingol Yel Polat Altun
1306	Causes of Delays in Construction Projects in Turkey	Mehmet Sait Ozgur	Culfik Sarıkaya
1387	EVALUATING UNCERTAINTY IN SCHEDULES OF LINEAR REPETITIVE UNIT-BASED CONSTRUCTION PROJECTS	AHMET ÖNDER	ÖZTAŞ ÖKMEN
1313	RISK ANALYSIS FOR PRIVATE HOSPITAL INVESTMENTS IN TURKEY	Esra Gulen Mehmet Sait	Yilmaz Culfik
1606	Risk Identification in Construction Projects: Using the Delphi Method	I. Ates Semra Zehra	Kiral Comu Kural



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CM-8, 24 OCTOBER 2014 FRIDAY, 10:00-11:30, HALL 2

Session Chair **Semra ÇOMU (Bogazici University)**

1270	Entitlement to Extension of Time and Additional Payment under FIDIC Conditions of Contract	Bugra Deniz Selin Volkan	YAGCI ILTER ALP AKTURK
1424	Construction Owners’ Perceptions of the Duties and Responsibilities of Construction Managers	Abdulkadir David M. Emin	Budak Arditi Ocal
1052	International Competitiveness of the Turkish Contractors	Beliz Sevilay	Ozorhon Demirkesen
1060	Cultural fit in international construction joint ventures	Beliz Hasan	Ozorhon Altun
1007	MARK-UP SIZE ESTIMATION FOR INTERNATIONAL CONSTRUCTION PROJECTS USING MULTIPLE REGRESSION ANALYSIS	Atilla Befrin Neval Gul Kadir	Damci Bingol Polat Genc



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CM-9, 24 OCTOBER 2014 FRIDAY, 14:15-15:45, HALL 2

Session Chair **Esin ERGEN PEHLEVAN (İTÜ)**

1055	Enterprise resource planning (ERP) use in the Turkish construction industry	Beliz Emrah	Ozorhon CINAR
1006	SCHEDULING LINEAR CONSTRUCTION PROJECTS COMPOSED OF REPETITIVE UNITS THROUGH A NEW CRITICAL PATH METHOD BASED PROCEDURE	Önder	Ökmen
1756	Analyzing the Relation Between Height and Cost of High-Rise Buildings in Istanbul	burak esin	turkel ergen
1757	The Level of Weightiness and Effectiveness of the Contractor Selection Criteria from the Perspective of the Turkish	Faikcan Hakan	Kog Yaman
1631	Managing Challenges of Local Labors in Construction Projects	Maedeh Manelia	Pourali Jahanian



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GEO-1, 21 OCTOBER 2014 TUESDAY, 11:30-13:00, HALL 3

Session Chairs Selim Altun (Ege University)

Session Chairs Eren Uckan (Boğaziçi University - Kandilli Observatory)

1438	BURIED PIPELINES SUBJECTED TO TRANSVERSE PERMANENT GROUND DEFORMATIONS	Abdullah Adil Hasan Emre Musaffa Ayşen Alexander	Gedikli Yiğit Demirci Lav Schmitt
1024	Online Load Control for Pipe Jacking	Markus Patrick M. Cem	Kirchhartz Blase YILMAZ
1772	INVESTIGATION OF IMPACT BEHAVIOR OF STEEL AND COMPOSITE PIPES WITH THREE DIFFERENT PROTECTIVE LAYERS	Onur Özgür S. Oğuzhan	GEZER ANIL AKBAŞ
1005	Subway Tunnels Stability Examination for Different Theories	Onur	Öztürk
1519	Design and methodology of simulation of a tunnel support and prediction of the surface settlement	Ali Djamal Mekki	HAMDANE BENMEDDOUR MELLAS
1152	Cement and Lime Stabilization Effect on the Evolutivity of an Expansive Overconsolidated Clay	Abdelkrim Mohamed	Mahamedi Khemissa



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GEO-2, 21 OCTOBER 2014 TUESDAY, 16:00-17:30, HALL 3

Session Chairs Bilge Siyahi (GYTE)

Session Chairs Ayşe Edinçliler (Boğaziçi University - Kandilli Observatory)

1413	Prediction of permanent ground deformation of Newmark block based on earthquakes in Turkey	Abdullah Adil Hasan Emre Musaffa Ayşen	GEDİKLİ YİĞİT DEMİRCİ LAV
1117	Development of Design Ground Motions for Specific Location in Balıkesir	Banu Ali	Yağcı Kalkan
1640	SENSITIVITY OF VARIOUS PARAMETERS ON RECENT GROUND MOTION PREDICTIONS	Mehmet Sevket Murat	Palancı Senel
1561	Pore Water Pressure Generation of Non-Plastic Silt-Sand Mixtures	Eyyüb Selim	Karakan Altun
1659	In-situ Evaluation of Shear Strength of Soft Clay from Shear Wave Velocity and Damping measurement.	Colin Peter Khairul Anuar Mohamad Nor	Abbiss Mohd. Nayan Omar
1241	Prediction of Compressibility characteristics through Log (1+e) – Log p' plot	Asuri Yesim	Sridharan Gurtug



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GEO-3, 22 OCTOBER 2014 WEDNESDAY, 14:30-16:00, HALL 1

Session Chair **Mehmet B. Can Ülker (İTÜ)**

1702	Thermo-Hydro-Mechanical Modeling of Landfill Behavior	ahmad reza ali mahtab	mahboubi ardakani noorzad delfan azari
1218	Dynamics of Unsaturated Soils: Governing Equations and Constitutive Relations	Mehmet Barış C. Ülker	
1747	A Numerical Analysis of the Standard Penetration Test	Ali Fırat Haluk	Çabalar Işık
1231	Exponential Basis Functions in Solution of Free-Boundary Problems in a Meshless Style: A Case Study of Seepage	farshid parisa Abdelhak	mossaiby sadeghian khourasgani MABROUKI
1518	Numerical modelling of the pullout test of geocell	Djamal Mekki	BENMEDDOUR MELLAS
1246	Permeability Behaviour of Compacted Soils	Salima Asuri Yesim	ATTACHE Sridharan Gurtug



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GEO-4, 22 OCTOBER 2014 WEDNESDAY, 16:30-18:00, HALL 3

Session Chairs Ahmet Tuncan (Anadolu University)

Session Chairs Berrak Teymur (İTÜ)

1226	Porous mass concrete - geotechnical issues	Alexander FARID	Schmitt HAMMOUD
1381	Assessment of the soil-structure interface behaviour using direct shear box	MARWA MOHAMED SAL/	FELIGHA NOUAOURIA
1523	Thermal conductivity of Gypseous Soil under different Temperatures	MOULOUD Ahmed	BELACHIA Al-Obaidi
1542	A STUDY ON THE EFFECT OF INDEX PROPERTIES ON CONSOLIDATION COEFFICIENT Using Fuzzy Logic to Estimate Undrained Cohesion of Clays	Ansam Gokhan	Al-Karawi Cevikbilen
1752	Based on SPT, Effective Stress, Water Content and Atterberg Limits	Recep Saeid	Iyisan Moazam
1363	Improving CBR Performance of a Soil using a Biopolymer	Sepanta Sepanta	Naimi Alizadeh Salehi
1701	Debris Flow Magnitude Prediction	Ali Firat Nurullah	ÇABALAR AKBULUT
		Chamroeun Chan-Young	Chhorn Yune
		Heung-Seok Seong-Jae	Seo Hong
		Seung-Woo	Lee



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GEO-5, 23 OCTOBER 2014 THURSDAY, 10:00-11:30, HALL 3

Session Chairs Sami Arsoy (Kocaeli University)

Session Chairs Ece Bayat (İTÜ)

1634	A combined method FEM-BEM for analysis static and dynamic response of a pile foundation	Khaled Nawel Salah	Saker Bousbia Messast
1658	PHYSICAL AND NUMERICAL MODELLING OF CYCLIC AXIAL LOADING RESPONSE OF PILES	AKCHICHE DJEDJIG ROUAG	Mustapha Khalil Abderrazak
1765	Case Study on a Deep Excavation in front of an Historic Building in Hilton Istanbul Bomonti Hotel	Ece M.Ayşen Adlen	Aktan Lav Altunbas
1251	BACKFILL FAILURE PLANES AND FAILURE DISPLACEMENTS DURING ACTIVE FAILURE STATES	Ahmet Talha Behzad Ozer	Gezgin Soltanbeigi Cinicioglu
1676	MODULUS OF ELASTICITY DETERMINATION OF ROCKS WITH COMRESSOMETER, STRAIN GAUGE AND LVDT MEASUREMENTS	Mehmet Cemal	Acar
1127	Roughness's Shapes Comparative Analysis of Some Reinforced Earth Elements under Monotonous Loading	Mohamed Saâd Smail	Khemissa Aidjouli Safer



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GEO-6, 23 OCTOBER 2014 THURSDAY, 12:00-13:30, HALL 1

Session Chairs Gökhan Baykal (Boğaziçi University)

Session Chairs Aydın Kavak (Kocaeli University)

1026	Improvement of Expansive Soils Using Fiber Materials	AYKUT HASAN SAMAD	ŞENOL YILDIRIM K. KHOSROWSHAHI
1322	EFFECTS OF STABILIZATION OF COHESIVE SOILS BY USING LIME ON CBR VALUE	İnci Ünsal	Süt Ünver Soygür
1314	Undrained Behavior of Clay-Plastic Waste Mixtures	Hossein	Soltani-Jigheh
1586	ASSESSMENT OF STRENGTH DEVELOPMENT AND FREEZE – THAW BEHAVIOR OF CEMENT ADMIXED CLAYS	Irem Selim Tugba Adem	Kalipcilar Altun Eskisar ISIK
1234	Freezing and Thawing Behavior of Compacted Soils	Gokhan Recep	CEVIKBILEN IYISAN
1751	Characterization of Sand-expansive Soil mixture with Marble Powder Additive as a Landfill Liner in a Semi-arid Climate	Huriye Şerife	Bilsel Öncü



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GEO-7, 23 OCTOBER 2014 THURSDAY, 17:15-18:45, HALL 3

Session Chair Erol Güler (Boğaziçi University)

1077	Modeling of embankment stabilized with geogrid	Ali Firat	Cabalar
		Mustafa	Ozakca
		Zuheir	Karabash
1361	Finite Element Modelling of Seismic Performance of an Embankment Supported with Geosynthetic Encapsulated Stone Columns	Cihan	Cengiz
		Erol	Guler
		I. Emrah	Kilic
1736	Failure Surfaces of the Eccentrically Loaded Model Strip Footing on Unreinforced and Reinforced Sand Slope	Bayram Ali	Uzuner
		Emel	Turker
		Evrin	Cure
1396	Geotechnical Issues on Design and Construction of Lunar Base	Suheyla	Yerel Kandemir
		Y. Cengiz	Toklu
1050	Design of circular foundations using saturated and unsaturated soil parameters	AYKUT	ŞENOL
		FEYZULLAH	GÜLŞEN
		Belabed	Lazhar
1382	Probabilistic Analysis of geotechnical structures	Bencheikh	Messaouda
		Benyaghla	Hacene
1131	Assessment of collapse behaviour of soils reinforced with polyethylene fibers	MOHAMED SALAH	NOUAOURIA
		SOUHILA	ADJABI



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HE-1, 21 OCTOBER 2014 TUESDAY, 17:30-19:00, HALL 3

Session Chair **Abdullah Hilmi Lav (İTÜ)**

1697	Do Durability Tests Correlate with Hamburg Wheel-Tracking Test	hacer ibrahim yetkin Intikhab Ahmed	bilir ozhan sel yilidirim Qureshi
1452	Performance Evaluation of Asphaltic Airfield Pavements Using Elvaloy as a Fuel Resistant Polymer	Irfan Madeeha Sarfraz	Muhammad Saeed Ahmed
1371	Influence of Mixture Design Variables on Thermal Coefficient of Asphalt Concrete	Ali Murat Ali	Arabzadeh Güler Topal
1700	EFFECTS OF A CHEMICAL WMA ADDITIVE ON AGING CHARACTERISTICS OF BITUMINOUS MIXTURES	Burak Julide Peyman	Sengoz Oner Aghazadeh Dokandari
1766	Determination of Optimum Filler Rate in Bituminous Hot Mixtures	Sevil	Kofteci
1176	INVESTIGATION OF THE EFFECTS OF RAIL STRESSES ON THE OCCURRENCE OF RAIL DEFECTS	Hazal Zübeyde	Yılmaz Öztürk



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HE-2, 24 OCT 2014 FRIDAY, 10:00-11:30, HALL 4

Session Chairs **Mohamed ABDEL-ATY (UCF)**

Session Chairs **Ferit YAKAR (Gaziosmanpaşa Ü.)**

1041	Viability of Automatic Vehicle Identification Data in Traffic Operation and Safety Analyses	Mohamed Qi	Abdel-Aty Shi
1321	An Evaluation of Variable Speed Limit System on D100 Highway in Istanbul	Dr. Fatih Orhan Zekai	Gündoğan Kiray Karagöz
1003	Notion development of proportion of stopping distance safety indicator	AminMira Arastoo	Boroujerdian Karimi
1548	Use of Discriminant Analysis for identification of risky road sections	Ferit	YAKAR
1040	Applying Individual Risk Models for Railway Hazard Events	Ö.Emre Öztürk	Özcan Zübeyde
1104	Effects of asphalt binder properties on asphalt mixtures: An evaluation study of the local and imported bitumen used in rehabilitation works in Libya in 2010	Abd Alaziz Mukhtar	Alghannai Abukhattala



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HYDRO-1, 22 OCTOBER 2014 WEDNESDAY, 11:00-12:30, HALL 3

Session Chair **Özgür Kirca (İTÜ)**

1092	Modeling of surface water waves generated by a moving subaerial and submerged landslides	Sedat Vafa Abdüsselam	Kabdaşlı Khoolosi Altunkaynak
1037	Application of MIKE 21 SW for wave hindcasting in Marmara Sea Basin for the year 2012	Mehmet Tarkan Yasin	Özger Erdik Abdollahzadeh moradi
1085	RECENT DEVELOPMENTS ON WAVE-INDUCED LIQUEFACTION OF MARINE SEABED	M.B. Can V.S. Ozgur	Ulker Kirca
1036	OWC type wave chamber optimization under series of regular waves	Abdüsselam Farrokh	ALTUNKAYNAK Mahnamfar



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HYDRO-2, 22 OCTOBER 2014 WEDNESDAY, 16:30-18:00, HALL 2

Session Chair **Ali Osman Pektaş (Bahçeşehir University)**

1062	Evaluation of the performance of GCMs driven RCM outputs for rainfall prediction over Rize Catchment	Ali Deniz Dursun Zefer Ercan Mehmet Gökçen	Danandeh Mehr Bozkurt Şeker Kahya Özger Bombar
1328	An Experimental Study of the Flood Wave Propagation Through a Contraction	Mustafa Onur Volkan İbrahim	Önen Önem Demir
1400	Toward a Flood Information System (TABİS) for Turkey	İsmail Bülent	Haltaş KOCAMAN
1451	Two Dimensional Flood Modeling and Mapping for Porsuk Dambreak	Gökmen İsmail Şebnem	Tayfur HALTAS Elçi
1732	Development of 1D and 2D coupled model to simulate flood using unstructured triangular grids	Hoda Mohamad Ali	Bozorgi Amiri Banihashemi
1463	Feasibility of on-site treatment systems in Algeria : Experimental and statistical studies	Boutelja Kherouf Maoui	Fathe mazouz ammar



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HYDRO-3, 23 OCTOBER 2014 THURSDAY, 10:00-11:30, HALL 2

Session Chair **Ali Uyumaz (İTÜ)**

1434	Experimental and Numerical Investigation of Bed Compaction Effect on Dam Break Flow over Movable Bed	farhad masoud sahar	bahmanpouri montazeri namin haddadian
1441	Environmental Effects of Shah Qasim Dam	Masoud Mustafa	Ravansalar Ergil
1211	Investigating of Variation of Geometrical Parameters in Rubber Dams Due to Changes of Internal Pressures	Babak Mehdi Rasoul	Eghbal Badalzadeh Daneshfaraz
1545	HYDROPOWER POTENTIAL IN PAKISTAN	Bertuğ Fassahat Ullah	Akintuğ Qureshi
1553	DETERMINATION OF OXYGEN GAIN IN HYDRAULIC STRUCTURES	ASLI SAADETTIN TUBA	SARI TOPÇU BOSTAN



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HYDRO-4, 23 OCTOBER 2014 THURSDAY, 12:00-13:30, HALL 3

Session Chair	Abdüselam Altunkaynak (İTÜ)		
1028	Numerical Investigation of Protection Measures Against Waterhammer in the Yesilvadi Hydropower Plant	Samet Zafer	Dursun Bozkuş
1027	Investigation of Water Hammer Problems in Wind-Hydro Hybrid Power Plants	Ali Ersin Zafer	Diğer Bozkuş
1709	Software (Multi-flowCAD) Development for Sub-main Line Hydraulic Design-I : Computational Algorithm	Gürol Ömer	Yıldırım Köse
1710	Software (Multi-flowCAD) Development for Sub-main Line Hydraulic Design-II: Steps of Algorithm, Computer	Gürol Ömer	Yıldırım Köse
1599	The Determination of Open Channel Alignment Using Geographic Information System	Alaa Mazen	Al-Nuaimi Kavvas



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HYDRO-5, 23 OCTOBER 2014 THURSDAY, 15:15-16:45, HALL 3

Session Chair **Gürol Yıldırım (Aksaray University)**

1408	Potential Possibility of Navigation on the Euphrates River System with the High Dams	Erkan	Alkan
1140	Predicting Influential Parameters and Suggesting Empirical Equation for Sediment Transport Capacity of Rills	Mustafa Yılmaz	Kılınc
1435	The Effects of Kralkizi and Tigris Dams on the Groundwater Static Level and It's Modeling With GIS Technique	Mohammadhasan Nasiri	Ergil
1258	Computer Based Modeling for Wave Propagation in Confined Aquifers	Mustafa	Ergil
1544	RAINWATER HARVESTING AS AN ALTERNATIVE WATER RESOURCE FOR THE DORMITORIES OF EASTERN	Recep	CELIK
		Amin	Riazi
		Umut	Türker
		Bertuğ	Akıntığ
		Chiemeka Onyef Okoye	



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HYDRO-6, 24 OCTOBER 2014 FRIDAY, 10:00-11:30, HALL 3

Session Chair Ahmet Doğan (Yıldız Technical University)

1716	Using Wavelet-Entropy Complexity Measure for change Detection of Runoff Time Series	Vahid Faranak Masoud Sevil	Nourani Tootoonchi Mehrvand Ranjbar
1704	A hybrid model of Wavelet with Artificial Neural Network for monthly prediction of river water quality	Masoud Mustafa Taher	Ravansalar Ergil Rajae
1559	DETERMINATION OF OPTIMUM CAPACITY AND OPERATION OF RESERVOIRS FOR IRRIGATION PURPOSES	A. Burcu Taha Emre aslı	Altan-Sakarya Erدين ülke
1205	Wastewater Collection System Modeling and GIS integration	ayşenur neslihan	uslu beden
1753	Stabilization Ponds Waste Water Treatment Plants Case Study	Mufid	Sehwail



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HYDRO-7, 24 OCTOBER 2014 FRIDAY, 12:00-13:30, HALL 2

Session Chair Oral Yağcı (İTÜ)

1620	Flow characteristics in 180 degree divergent bend	Mohammad Hos Masouminia
		Siavash Fasihi
		Umut Türker
1742	A cell vertex finite volume method for simulating shallow water flow in a channel with a sudden enlargement	Hoda Bozorgi Amiri
		Mohamad Ali Banihashemi
1536	THE EFFECT OF LEAFLESS AND TANDEM VEGETATION ON STREAMFLOW RESISTANCE IN OPEN CHANNELS	cahit yerdelen
		cansu özyaman
		gökmen tayfur
1563	INTERFACE MANNING ROUGHNESS COEFFICIENT FOR COMPOUND CHANNELS	Nuray Tokyay
		Uğur Kayatürk
1225	One point approach for EDR estimation of prismatic channels at sub-critical flow regime	EHSAN ABRARI
		MOHAMMAD K. BEIRAMI
		Mustafa Ergil



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HYDRO-8, 24 OCTOBER 2014 FRIDAY, 14:15-15:45, HALL 3

Session Chair **Mehmet Özger (İTÜ)**

1042	Trend analysis of streamflow in the Kizilirmak River, Turkey	Murat Ozgur	Ay Kisi
1015	Estimation and Forecasting Of Discharge of Armand River by Different Artificial Neural Network Methods	H.Kerem Redvan	Cigizoglu Ghasemlounia
1065	Prediction of Discharge in Qanat due to Construction of an Underground Dam, Using Artificial Neural Network Methods	Babak Hafzullah	Vaheddoost Aksoy
1240	Estimation of Monthly Pan Evaporation Using Different Artificial Intelligence Methods in Kahramanmaraş Station	M. Eyyüp N. Göksu Oguz Veysel	Kavşut Soydan Şimşek Gümüş
1571	Comparison of Conceptual and Artificial Neural Network Hydrologic Modeling for a Snow Dominated Basin in Turkey	A. Arda Aynur Gökçen M. Cansaran	Şorman Şensoy Uysal Ertaş



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MECH-1, 21 OCTOBER 2014 TUESDAY, 11:30-13:00, HALL 4

Session Chairs **Abdul Hayır (İTÜ)**

Session Chairs **Metin Muradođlu (Koç University)**

1001	Static and dynamic analysis of elastic cylindrical helices with arbitrary cross-sections by using the mixed finite element method	Mehmet Hakkı Merve Nihal Baki Mehmet Tarık Safa Bozkurt Ali Erdem Yusuf Cengiz Burhanettin Mustafa Özgür Yusuf Cengiz mustafa muthanna talha	OMURTAG ERMİŞ ERATLI Ozturk Atay Coskun ÇERÇEVİK TOKLU Altan Yaylı Toklu ozakca abbu ekmekyaper
1395	Free Vibration Analysis of Variable Stiffness Beams using Analytical Approximate Techniques		
1255	Stability and bifurcation of Euler-Bernoulli Beams		
1555	Two dimensional plane stress analysis as optimization problems		
1770	3D Modelling of Shear Connector behaviour with Partially Interaction		



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MECH-2, 23 OCTOBER 2014 THURSDAY, 10:00-11:30, HALL 4

Session Chairs Mehmet H. Omurtag (İTÜ)

Session Chairs Barış Can Ülker (İTÜ)

1197	Effects of Construction Errors in Bridges on Performance of TMDs in Vibration Reduction	MUHİTTİN ONUR VOLKAN Ferit Habib Volkan Egemen Erdal Serap Osman Şenol Ziya Amin Massood	TURAN ARAZ KAHYA ÇAKIR UYSAL ACAR Teomete Çelik Kahraman Bulut Ataoğlu Abdulaliyev Ghannadiasl Mofid
1057	Strengthening of Brick Masonry Arches with Carbon Fiber Prepreg Composites		
1138	A New Era in Structural Health Monitoring: Cement Based Sensors		
1136	Stress Distribution of Buried Pipes		
1762	Closed-form Solution for Free Longitudinal Vibration of Non-uniform Timoshenko Beam		



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MECH-3, 23 OCTOBER 2014 THURSDAY, 12:00-13:30, HALL 4

Session Chairs **Reha Artan (İTÜ)**

Session Chairs **Ünal Aldemir (İTÜ)**

1031	Dynamic interaction of the stiff and flexible channel resting on the half-space in the case of antiplane motion	Abdul Abdullah Reha	Hayır Donmez Artan
1143	Residual Stresses in the Prestressed Concrete Elements	Senol Unal Ziya Faruk Fırat Hakan	Ataoglu Aldemir Abdulaliyev ÇALIM ARGESO
1064	Quasi-static and dynamic analyses of viscoelastic conical helixes with a squared box cross-section	Mehmet H. Merve Nihal	OMURTAG ERMİŞ ERATLI
1137	Experimental analysis of state of stress of the pressure compensator	Şenol Ziya	Ataoglu Abdulaliyev
1274	EXPERIMENTAL INVESTIGATIONS OF LAMINATED GLASS CYLINDRICAL SHELL	EBRU M.ZÜLFÜ	DURAL AŞIK



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MECH-4, 24 OCTOBER 2014 FRIDAY, 14:15-15:45, HALL 4

Session Chairs Mesut Şimşek (Yildiz Technical University)

Session Chairs Zeynep Değer (İTÜ)

1731	An analytical study about a tier building model with magneto-rheological dampers.	Arcan Hector Jean-Paul Ahmet	Yanik Gutierrez Pinelli Ergin
1229	Natural frequencies of elliptical fluid storage tanks supported by elastic foundation	Akif Bahadır Mehmet H.	Kutlu Uğurlu Omurtag
1086	The First Integrals of the form $A(t,x)x'+B(t,x)$ and Symmetry Classification Via First Integrals of the Second Order	Özlem Teoman	Orhan Özer
1259	A MEMBRANE FINITE ELEMENT IMPLEMENTATION AND A POSTERIORI ERROR ESTIMATION OF GRADIENT ELASTICITY	Harm Ülkü Hülya	Askes Çalık-Karaköse
1774	Assessment of Effective Parameters on RBF-based Meshfree Method for Wave Propagation Modeling	Ali Hosein	Mansouri Ghaffarzadeh



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RC-1, 21 OCTOBER 2014 TUESDAY, 17:30-19:00, MAIN HALL

Session Chairs Kadir Güler (İTÜ)

Session Chairs Sinan Akkar (Boğaziçi University)

1587	Design Principles for Seyrantepe Sports Complex (Galatasaray Stadium)	Ali Selçuk Turgut	Özener İz Öztürk
1097	A New Analysis Technique for Identifying High Damping Systems - An Application to an Operating Wind Turbine	Daniel J. Muammer	Rixen Ozbek
1622	STRUCTURAL RETROFITTING OF A REINFORCED CONCRETE CHIMNEY	GÖKHAN SELÇUK	GÜRSOY KAÇIN
1760	Design, Fabrication and Installation Stages of İzmir Adnan Menderes Airport New Domestic Terminal Barrel Vault Roof	Ali Faik İsmail Gürkan	Ulusoy Akdoğan
1539	Study and critical analysis of the structural design of an amphitheater in view of its pathology.	Ahmed Mohamed Pierres	Amour Bencheikh Clastres
1528	SHEAR BEHAVIOR OF HISTORICAL BRICK MASONRY WALLS RETROFITTED WITH OPEN-GRID BASALT REINFORCED MORTAR	Alper Ihsan Engin Irem Ayşe Medine Pelin Elif	ILKI BAL YILMAZ ISPIR MEZREA



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RC-2, 22 OCTOBER 2014 WEDNESDAY, 16:30-18:00, MAIN HALL

Session Chairs **Cem Yalçın (Boğaziçi University)**

Session Chairs **Ufuk Yazgan (İTÜ)**

1489	An Experimental Study on Reinforced Concrete Slabs Subjected to Impact Loads	Baturay Selcuk	Batarlar Saatcı
1302	EFFECTS OF SHEAR REINFORCEMENT ON THE BEHAVIOR OF REINFORCED CONCRETE SLABS SUBJECTED TO IMPACT	Selçuk Yonca	SAATCI ARSAN
1568	Effects of Asymmetric Placement on Vibrations of Dynamically Loaded Foundations	Ali Onur Turgut	Güney Öztürk Öztürk
1392	Vibration Characteristics of a Reinforced Concrete Frame Subjected to Pushover Testing	Burcu Ali	Gunes KOÇAK
1432	FINITE ELEMENT MODAL UPDATING OF REINFORCED CONCRETE STRUCTURE WITH MASONRY INFILLS UNDER COMPLEX BOUNDARY CONDITIONS	Onur Paulo Barbossa S. R.	ONAT LOURENÇO Abid
1078	Finite Element Analysis of Temperature Distribution in Precast Concrete Girders Subjected to Thermal Loads	I. A. N. M. S. R.	Alhatmey Tayşi Özakça Abid
1151	Early Age Temperature Distributions in Reinforced Concrete Box-Girder	H. N. M.	Atiya Tayşi Özakça



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RC-3, 23 OCTOBER 2014 THURSDAY, 12:00-13:30, MAIN HALL

Session Chairs Mustafa Gençoğlu (İTÜ)

Session Chairs Beyza Taşkın (İTÜ)

1569	Inspection and Modeling of the Observed Damage in an RC Building after 2011 Van Earthquakes	Beyza Ulgen Mehmet Sefa	Taskin Mert Tugsal Orak
1621	Seismic Performance of GedikBulak School Building Revisited	Mustafa Zekai	Gençoğlu Celep
1474	SEISMIC PERFORMANCE EVALUATION OF DAMAGED BUILDINGS USING FIELD DATA	Abdullah Polat	Dilsiz Gülkan
1254	SEISMIC FRAGILITY CURVES FOR 4 AND 5 STOREY REINFORCED CONCRETE BUILDINGS BUILT BEFORE 1998 IN	Ali Muhammed	Gurbuz Tekin
1144	Imaging of Defects in Concrete Structures by Elastic Wave Methods	Ninel Sena	Alver Tayfur
1638	SEISMIC RESPONSE OF RC STRUCTURES STRENGTHENED BY CABLE ELEMENTS UNDER MULTIPLE EARTHQUAKES	Angelos Asterios Constantin	Liolios Liolios Chalioris



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RC-4, 23 OCTOBER 2014 THURSDAY, 15:15-16:45, HALL 1

Session Chairs Mucip Tapan (YYU)

Session Chairs Cem Demir (İTÜ)

1583	Finite Element Modeling of Low-Rise Structural Walls with Shear-Controlled Responses	A. Emir Kutay M. Fethi	Örendil Orakçal Güllü
1414	EVALUATION OF THE CONVENIENT RC INFILL WALL INDEX FOR THE STRENGTHENING OF AN EXISTING SCHOOL	Beyza Orkun Ali Haydar	Taskin Görgülü Kayhan
1649	Structural Capacity Evaluation of Existing and Retrofitted Reinforced Concrete Buildings with Infill Walls	Ayhan Kasim Armagan Kristina Mustafa	Irfanoglu Korkmaz Tsvetanova Sivri
1512	Predicting The Stiffness of Masonry Infill Walls in RC Frames	Baris Guney Meril Cigdem	Binici Ozcebe Durmus
1433	PUSH-OVER ANALYSIS OF REINFORCED CONCRETE STRUCTURES WITH MASONRY INFILLS	Tahsin Ali Onur	Turgay KOÇAK ONAT
1681	THE DESIGN AND EARTHQUAKE PERFORMANCE ASSESSMENT OF A SCHOOL BUILDING	Paulo Barbossa Alperen Kadir	LOURENÇO Türkay Güler



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RC-5, 23 OCTOBER 2014 THURSDAY, 17:15-18:45, MAIN HALL

Session Chairs Kutlu Darılmaz (İTÜ)

Session Chairs Eren Uckan (Boğaziçi University)

1764	Debonding Resistance of FRP-Strengthened Beams as affected by Shear Capacity	F. O. O. Ahmet Anıl Cem Ercan Hasan Oral	Bulut Gunes Büyüköztürk DINDAR YALCIN YUKSEL OZKAYNAK BUYUKOZTURK
1215	Damping vs. Ductility Relation for CFRP Retrofitted Infilled RC Frames	Abdesslam Abdesslem Nabil Cu Muhammad Thong	BOUROUZ CHAIR DJEBBAR Lei Hadi Pham
1263	Seismic performance of reinforced columns strengthened by steel jacket	Habib-Abdelhak Riad	MESBAH BENZAID
1759	Behaviour of FRP Confined Square Concrete Columns with Circularisation		
1693	Confinement model for square concrete columns externally confined with CFRP composites		



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RC-6, 24 OCTOBER 2014 FRIDAY, 10:00-11:30, MAIN HALL

Session Chairs Hilmi Lus (Boğaziçi University)

Session Chairs Çağlar Göksu (İTÜ)

1145	INFLUENCE OF FRP-CONCRETE BOND SLIP MODELING ON EVALUATION OF FRP STRENGTHENED REINFORCED	Efe Ninel Babür Bilge	SELMAN ALVER Deliktaş Doran
1558	Numerical Modeling for the Flexural Behavior of Reinforced Concrete Beams Strengthened with FRP Sheets	Hasan Orhun Kasım Selen Abdelghani	Köksal Polat Aktan Merdas
1712	Experimental Investigation of the Bond and Flexural Behaviour of Beams Strengthened with NSM-CFRP	Bruno Nasr-Eddine Mustapha	Fiorio Chikh Cheikh-Zouaoui
1713	Structural Performance of Square Concrete Columns Strengthened with CFRP	Nasr-Eddine Riad	Chikh Benzaid
1692	Square concrete columns confined by external CFRP composites wrap	Habib-Abdelhak Riad	MESBAH BENZAID



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RC-7, 24 OCTOBER 2014 FRIDAY, 12:00-13:30, HALL 1

Session Chairs Zekai Celep (İTÜ)

Session Chairs Gulum Tanırcan (Boğaziçi University)

1497	STUDY ON THE EFFECTS OF DIFFERENT METHODS FOR SELECTING ACCELEROGRAMS ON SEISMIC RESPONSE OF CONCRETE MOMENT RESISTING FRAMES	Hossein	Tajmir Riahi
1735	Tectonic knowledge impacts on design process	Nima	Hatami Aloughare
1526	Bottom Roughness Effect on Subsea Pipelines	Alireza	Baghchesaraei
1725	A Simplified Procedure to Determine Seismic Performance of Residential RC Buildings	Omid Reza	Baghchesaraei
1637	Investigation of Effect of Different Modeling Techniques on Existing Buildings Performance	Iman	Seyfipour
1189	Estimation of the Temperature Profiles of Reinforced Concrete Cross-Sections Exposed to Standard Fires by Using Artificial Neural Networks	Mostafa	Shahrabi
		Rasoul	Mirghaderi
		Fuat	DEMİR
		Hakan	DİLMAÇ
		Hamide	TEKELİ
		Kadir	GÜLER
		Zekai	CELEP
		Ali	Kalkan
		Mehmet	Palanci
		Sevket Murat	Senel
		Yasin	Yilmaz
		Oğuz	Burnaz
		Selahattin	Albayrak



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RC-8, 24 OCTOBER 2014 FRIDAY, 14:15-15:45, MAIN HALL

Session Chairs Alper İlki (İTÜ)

Session Chairs Kutay Orakçal (Bogazici University)

1488	Behavior Investigation of Steel ;Concrete Composite Beam With High Strength Concrete	Sarah SUHAIB Abdesselam	Abd Al-Aziz AL-DARZI BOUROUZ
1301	Behavior of high-strength concrete confined sections	Abdesslem Nassereddine	CHAIR CHIKH
1330	TRANSVERSE STEEL RATIOS FOR RC BEAM-COLUMN JOINTS	Abdelhamid Nabil	Temagoult Djebbar
1103	Retrofitting masonry infills in substandard RC structures via TRM jackets	Lambros Stathis Thanasis	Koutas Bousias Triantafillou
1706	Analysis of Fibre Reinforced Concrete Deep Beams Using the Strut and Tie Model	Ahmed Saad	Nathim AlTaan
1781	Diagnosis, Repair and Strengthening of Reinforced Concrete Bridges	Vail F. M. R. E. O. F.	Karakale Layas Suleiman Labbar



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ANTM-1, 22 OCT 2014 WEDNESDAY, 11:00-12:30, HALL 4

Session Chairs **Nikolas GEROLIMINIS (EPFL)**

Session Chairs **Costas ANTONIOU (NTUA)**

1022	Reliability of SPSA AD-PI method for dynamic demand estimation: a case of study	Andrea Chiara Ernesto Gaetano Marialisa	Gemma Colombaroni Cipriani Fusco Nigro
1628	Approximating Equilibrium Conditions with Macroscopic Fundamental Diagrams	Mehmet Nikolas	Yildirimoglu Geroliminis
1021	A comparison of traffic state estimation methods based on different Kalman Filter approaches and data fusion techniques	Ernesto Livia Stefano	Cipriani Mannini Gori
1025	An Analytical Approach for Modeling Tolled Bus Lanes	Monica S. Ilgin Sofia	Menendez Guler Theodoridou



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ANTM-2, 22 OCT 2014 WEDNESDAY, 14:30-16:00, HALL 3

Session Chairs **Nikolas GEROLIMINIS (EPFL)**

Session Chairs **Costas ANTONIOU (NTUA)**

1033	Integrated traffic control of motorway via linear optimal control	Andy H.F. Ying Anastasia Ioannis	CHOW LI Spiliopoulou Papamichail
1723	Calibration of two macroscopic traffic flow models using a genetic algorithm	John Markos Yannis	Chrysoulakis Papageorgiou Tyrinopoulos
1019	Learning to Predict: Automatic Selection and Configuration of Prediction Techniques for Traffic Flows within a Self-organised Traffic Control System	Joerg Matthias Sven	Haehner Sommer Tomforde
1576	Comparative Evaluation of a Cellular Automata Model and Cell Transmission Model with Istanbul Freeway Data	Onur Mehmet Ali Hilmi Berk	Deniz Silgu Çelikoğlu
1308	Challenges and Vision of Fuzzy Logic Based Traffic Signal	Yetis Sazi	MURAT



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ANTM-3, 22 OCT 2014 WEDNESDAY, 16:30-18:00, HALL 4

Session Chairs **Nikolas GEROLIMINIS (EPFL)**

Session Chairs **Costas ANTONIOU (NTUA)**

1379	A Hybrid Optimisation Method for Network Signal Setting Design	Giulio Erberto Roberta Silvio Stefano Basil	Cantarella Di Pace Memoli de Luca Psarianos
1095	Simulation-based assessment of access management implementation schemes	Constantinos Nikoleta Aleksandar	Antoniou Kotsikou Stevanovic
1167	Operational Benefits of an Adaptive Signal Control Technology for Irregular Traffic Conditions	Cameron Milan	Kergaye Zlatkovic
1749	Non-hierarchical Clustering Methods to Classify Freeway Traffic Flow States	Mehmet Ali Hilmi Berk	Silgu Çelikoğlu



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STS-1, 21 OCTOBER 2014 TUESDAY, 16:00-17:30, MAIN HALL

Session Chairs Nesrin Yardımcı (Yeditepe University)

Session Chairs Serdar Selamet (Bogazici University)

1773	Seismic Performance of Buckling-Restrained Braced Frames in Eccentric Configuration	Cuneyt Elif Ecem	Vatansever Bas
1276	Behaviour of Pretensioned Bolted Steel Column – Beam Connections Subjected to Monotonic Loading	Orkun Serkan	YILMAZ BEKİROĞLU
1160	Development of a New Recentering Damper for Steel Bracing Systems	Alp Nefize	Caner Shaban
1118	Steel Buckling-Restrained Braces with Cold-Formed Encasings	Cem Mehmet Bakır	TOPKAYA BOZKURT
1538	Nonlinear Buckling Analysis of Eccentrically Loaded Angles	Ayşe Mustafa	Daloğlu Durmaz



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STS-2, 22 OCTOBER 2014 WEDNESDAY, 14:30-16:00, MAIN HALL

Session Chairs **E. Filiz Piroglu (İTÜ)**

Session Chairs **Kerem Peker (ERDEMLİ)**

1777	BEHAVIOUR AND DESIGN OF COLD-FORMED SHEAR WALL FRAMES WITH AND WITHOUT FIBER CEMENT SHEATHING PANELS	Ceren M. R. B. Nesrin Shahram Abdullah Cevdet	Ince Karimi Yardimci Derogar TOGAY SÖĞÜTLÜ
1771	Experimental Analysis of Hysteretic Load Behavior of Timber Framed Shear Walls with Openings	İbrahim Nihat Özgür Ümmü	EDİZ DÖNGEL ANIL KARAGÖZ
1738	Structural Solutions based on Intensive Use of Steel for Overcladding of Existing Large Precast Concrete Panel Buildings	Ciutina Floricele Ungureanu Vataman	Adrian Andra Viorele Adina
1758	Lateral Torsional Buckling of Steel I-Section Cellular Beams	Mohammad Mu	Sehwail
1281	Teaching and Learning Based Optimum Design Algorithm for Steel Grillage Systems to LRFD-AISC	Alper İbrahim	Akin Aydoğdu
1279	Optimum Design of Geodesic Aluminium Domes using Firefly Algorithm	Alper İbrahim	Akin Aydoğdu



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STS-3, 23 OCTOBER 2014 THURSDAY, 15:15-16:45, HALL 4

Session Chairs Bulent Akbas (GYTE)

Session Chairs Cem Haydaroglu (ARUP)

1776	Nonlinear Finite Element Modelling of Cold-Formed Steel Bolted Beam-column Connections	Cengiz Ceren Shahram Barış	Toklu Ince Derogar Binici
1727	THE DEVELOPMENT OF THE BUCKLING RESTRAINED BRACES WITH NEW END RESTRAINS	Cem Ramazan Yağmur	Topkaya ÖZÇELİK Dikiciaşık
1278	Numerical Simulations of Bolted Steel Connections in Single and Double Shear Under Pretension Effect	Orkun Serkan Daniel	YILMAZ BEKİROĞLU Grecea
1509	Long Span Lens-shaped Steel Roof over Convention Centre	Mircea Viorel	Georgescu Ungureanu



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SA-1, 21 OCTOBER 2014 TUESDAY, 11:30-13:00, MAIN HALL

Session Chair	Engin Orakdöğen (İTÜ)		
1585	COMPARATIVE STUDY ON THE NONLINEAR BEHAVIOR OF STEEL SHEAR-LINKS	Afşin Yaşam Fatih	Sarıtaş Kızıldağ Sutcu
1687	NEW RETROFIT DESIGN METHOD FOR RC BUILDINGS USING BUCKLING-RESTRAINED-BRACES AND STEEL FRAMES	Ryota Toru Ali İhsan	Matsui Takeuchi ÖZÇETİN
1420	Evaluation of high-rise reinforced concrete frame structures with buckling-restrained braces under earthquake loading	Ayşegül Esra Ayşegül	GÜLTEKİN METE GÜNEYİSİ Gültekin
1185	Comparison of seismic response of three and six story buildings with and without buckling restrained braces	Esra Nabaz Salah Ayhan	Mete Güneyisi Sdiq Nuhoglu
1650	Strengthening Reinforced Concrete Columns in Industrial Buildings Using Structural Steel Members	Emre Emre Kasim	Sen Ercan Korkmaz
1190	Structural Fire Analysis of Simply Supported Reinforced Concrete Beams Given in TS-EN-1992-1-2	Ahmet Oğuz	Durmuş Burnaz



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SA-2, 21 OCTOBER 2014 TUESDAY, 16:00-17:30, HALL 1

Session Chair **Gülten Gülay (İTÜ)**

1237	COMPARISON OF RECENT META-HEURISTIC SEARCH METHODS IN THE OPTIMUM DESIGN OF CELLULAR BEAMS	ERKAN	DOĞAN
1018	Optimization of Reinforced Concrete Shear Walls using Harmony Search	Gebrail	Bekdaş
1761	Minimize the Thickness of Thin Plate Structures using Evolutionary Structural Optimization method	Sinan Melih	Nigdeli
1203	Analysis of Cable and Tensegrity Structures through Total Potential Optimization using Meta-heuristic Algorithms	Amin	Ghannadiasl
1461	BIOLOGICAL EVOLUTION FOR ANALYSIS OF TENSEGRIC STRUCTURES	Saeideh	Ebrahimzadeh
		Seyed Shahabad	Younesi
		Gebrail	Bekdaş
		Rasim	Temür
		Yusuf Cengiz	Toklu
		Cengiz	Toklu
		Fatih	Uzun



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SA-3, 21 OCTOBER 2014 TUESDAY, 17:30-19:00, HALL 1

Session Chair **Fatih Sütçü (İTÜ)**

1063	A CLOUD COMPUTER APPLICATION IN CIVIL ENGINEERING EDUCATION AND RESEARCH: SAMA	Ahmet Ahmet Anıl Berat Yusuf Hatay	Türkhan Dindar Tugan Önen
1082	DESIGN AND COMPARISON OF TALL BUILDINGS ACCORDING TO TWO DIFFERENT DESIGN CODES	Mohammed Ali Nildem	Ahmadi Taysi
1514	OPTIMAL STRUCTURAL CONTROL USING WAVELET-BASED LQR ALGORITHM	mahdi Unal	abdollahirad Aldemir
1016	Optimization of TMDs for Structures Excited by Near-Fault Motions for Different Ground Conditions	Gebrail Sinan Melih	Bekdaş Nigdeli
1017	Maximum Control Force Factor for Actively Controlled Seismic Structures	Sinan Melih	Nigdeli



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SA-4, 22 OCTOBER 2014 WEDNESDAY, 11:00-12:30, MAIN HALL

Session Chair Ercan Yüksel (İTÜ)

1745	Ductile connection for the seismic retrofitting of existing precast buildings	Marco	Bodini
1227	EVALUATION of A MACRO MODEL PROPOSED FOR A NON-SYMMETRICAL PRECAST BEAM TO COLUMN CONNECTION	Ahmet	Bal
1520	Numerical Simulation of Precast Moment-Resisting Interior Beam-Column Connections under Cyclic Loading	Ercan	Yüksel
1711	COMPARING ANALYTICAL MODELING and TEST RESULTS of POST-TENSIONED BEAM to COLUMN CONNECTIONS	Faruk	Karadoğan
1584	INFLUENCE OF SEMI-RIGID CONNECTION NONLINEARITY ON STEEL SPECIAL MOMENT FRAMES	Sadik Can	Girgin
1623	Effect of connections rigidity on the structural behavior of single layer latticed domes	Serap	Kahraman
		İbrahim Serkan	Mısır
		Abdussamet	Arslan
		Mustafa	Kaya
		Afşin	Sarıtaş
		Tolga	Metin
		Ali	Mortazavi
		Ayhan	Nuhoglu



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SA-5, 22 OCTOBER 2014 WEDNESDAY, 16:30-18:00, HALL 1

Session Chair Eleni Smyrou (İTÜ)

1261	Cost Optimization of Shear-Walls using Genetic Algorithm	Fatma Gulten Senay	Gulay Atabay
1275	Determination of Optimum Cross-Sectional Shape of Prestressed Concrete Girders Using an Ant Colony	Yusuf Zekeriya	Ayvaz Aydın
1277	A comparison of two heuristic search methods via a structural optimization problem: ant colony optimization and genetic algorithm	Abidin Hakan Zekeriya	Yılmaz Aydın
1629	Particle Swarm Optimizer integrated with fly-back mechanism and weighted particle for optimization of the truss structures	Ali Vedat Gebrail	Mortazavi Togan Bekdaş
1202	Total Potential Energy Optimization Method Analyses of Trusses Structures Considering the Elasto-plastic Behavior	Rasim Yusuf Cengiz	Temür Toklu
1768	Modeling revolution shell structures by MATLAB programming –axisymmetric and nonaxisymmetric shells-	A. B. D. M.	Ounis Labiodh Hamadi Chaalane



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SA-6, 23 OCTOBER 2014 THURSDAY, 10:00-11:30, MAIN HALL

Session Chair **Burcu Güneş (İTÜ)**

1072	Nonlinear Behavior of Concrete Gravity Dams	Berat Feyza Yalin	Soysal Arici
1153	Damage Detection of a Bridge Based on Operational Dynamic Strain Measurements	Necati Ozan Tong	Catbas Celik Wang
1767	Feasibility and Assessment of Use of Seismic Isolators in Bridges, Case study: Bridges of Rasht	Hamed Peyman	Ahmadi Moghadam Rahmatabadi
1656	Study on seismic performance of repaired pre-damaged reinforced concrete bridge piers	Daoyao Jun	Wang Deng
1315	SEISMIC BEHAVIOR OF PRE-STRESSED CONCRETE BRIDGE COLUMN	Mehdi Murude Habib	Hosseinpour Celikag Akbarzadeh Bengar



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SA-7, 23 OCTOBER 2014 THURSDAY, 15:15-16:45, MAIN HALL

Session Chair	Bariş Erkuş (İTÜ)		
1440	A NEW METHOD TO CALCULATE EQUIVALENT DAMPING RATIO FOR DETERIORATING HYSTERETIC BEHAVIOR OF LEAD RUBBER BEARINGS	Gökhan	Özdemir
1130	Assessment of Using Viscoelastic Dampers in Seismic Performance of Steel Structures	Giray Hassan	Ozay Moniri
1139	Seismic Assessment of a Steel Structure with Viscoelastic and Friction Dampers	Hassan Orod Serhan	Moniri Zarrinkafsh Şensoy
1174	Optimum slippage load of steel structures equipped with frictional dampers utilizing endurance time analysis	Hamid Mohsen	Rahmani Samani Lamea
1779	Retrofit of RC Structures with Dampers in Turkey	Baris	Erkus
1120	Interdependencies of AAR and Contraction Joints in Structural Performance of a Concrete Arch Dam	Mohsen Hasan	Lamea Mirzabozorg



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SA-8, 24 OCTOBER 2014 FRIDAY, 12:00-13:30, MAIN HALL

Session Chair **Faruk Karadoğan (İTÜ)**

		F.Necati	Catbas
		Shuhei	Hiasa
1210	Infrared thermography measurements by employing three cameras with different detector resolutions	Masato	Matsumoto
		Koji	Mitani
		Shinji	Nagayasu
		Recep	Birgul
		Adem	Solak
1087	Experimental study on behavior of anchored external shear wall panel connections	Hasan	Kaplan
		Salih	Yilmaz
		Yavuz Selim	Tama
1093	Challenges in Performing Dynamic Stability Analysis on Large Multi-MW Scale Wind Turbines	Daniel J.	Rixen
		Muammer	Ozbek
1066	EFFECT OF ADDING LARGE SCALE BRACINGS BETWEEN MULTI-OUTRIGGER- BRACED TALL BUILDINGS	Hashem	Alhendi
		Murude	Celikag
		Iman	Seyfipoor
1450	Floating piers modulation to provide static stability	Khosrow	Bargi
		Mostafa	Shahrabi



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TE-1, 21 OCT 2014 TUESDAY, 17:30-19:00, HALL 4

Session Chairs Yetiş Şazi Murat (Pamukkale U.)

Session Chairs Hediye Tüydeş Yaman (ODTÜ)

1121	Estimation of Level of Service at Signalized Intersections around the Proposed Health Campus in Etlik, Ankara	Ali Asghar Hediye Cengiz	Kazemi Afshar Tuydes-Yaman Akcam
1655	Selection of Intersection Type by Analytic Hierarchy Process (AHP)	Yetis Sazi Ziya Celal Tolga	Murat Cakici Imamoğlu
1297	Investigation the Effect of Road Surface Deformations on Capacity of Signalized Intersections by Using Cell Transmission Model	Kiarash Metin Orhan Sinan	Ghasemlou Mutlu Aydın Karpuz Yıldırım
1317	Evaluation of New Adaptif Signal Control System in Simulation Environment	Abdulah Dr. Fatih Nihat Zekai	Karadağ Gündoğan Koçyiğit Karagöz
1430	DEVELOPMENT OF FIRST HEAVY CONTAINMENT LEVEL RAIL FOR BRIDGES AND VIDUCTS: ISTANBUL CASE STUDY	Ali Osman Fatih	Atahan Kurucu
1308	Challenges and Vision of Fuzzy Logic Based Traffic Signal	Yetis Sazi	MURAT



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TE-2, 23 OCTOBER 2014 THURSDAY, 17:15-18:45, HALL 4

Session Chairs Ilgin GÜLER (ETHZ)

Session Chairs Selim DÜNDAR (Okan Ü.)

1146	Pedestrians' Crossing Behavior near Overpasses: An investigation of four overpasses in Izmir, Turkey	Pelin Yalcin Yasar İsmet	Onelcin Alver Demiroz
1196	FACTORS AFFECTING THE PEDESTRIAN CROSSING SPEED; CASE OF ISTANBUL ANATOLIAN SIDE	Asli Pelin Selim Hediye	Gurgun Dundar Tuydes-Yaman
1230	Evaluating Pedestrian Level of Service at Middle East Technical University (METU) Campus	Oruc Pinar Bekir	Altintasi Karatas Aktaş
1598	COMPARING TRANSPORTATION MODES OF INTERCITY PASSENGER SURVEYS IN KAYSERI	Şevket Atabak Hediye	Aslan Mardan Tuydes Yaman
1124	Characteristics of Truck Freight Transportation on Motorways in Turkey	Murat Hediye Murat	Ozen Tuydes Yaman Ozen
1159	Challenges of Modelling Truck Freight Demand in Turkey		



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TE-3, 24 OCT 2014 FRIDAY, 12:00-13:30, HALL 4

Session Chairs Haluk Gercek (İTÜ)

Session Chairs Eren Erman Özgüven (FSU)

1593	Evaluation of Multi-Modal Evacuation Operations in the Aftermath of a Disaster	Ayberk Eren Erman Ren	Kocatepe Ozguven Moses
1067	DETERMINATION OF ORIGIN-DESTINATION MATRIX OF METU CAMPUS TRAVELERS USING RFID DATA	Hediye Oruc	Tuydes-Yaman Altintasi
1741	MEASURING THE SPEED BEFORE AND AFTER AN ELECTRONIC SPEED ENFORCEMENT SYSTEM USING BLUETOOTH	Hediye Sule	Tuydes Yaman Yucel
1248	Studying the Park and Ride opportunities in Izmir, Turkey	Inabat Yalcin	Balgabayeva Alver
1662	The Role of Park and Ride Technique in Developing Hay Al-Mansour in Bagdad City	Mohmmad mehmet tarik	B. Abdljabar düNDAR
1073	AN EVALUATION FOR OPTIMIZING CONSTRUCTION AND OPERATION COSTS OF METRO SYSTEMS	Zubeyde	öztürk