

STREQ8

Structural Engineering and Earthquake Engineering Session 8; 19 October 2012 10:00-11:30 Hall: Kemal Kurdaş		
Session Chair : Mehmet Cemal Genes		
Abstract Number	Title	Authors
325	A Mixed FEM Solution for Natural Frequencies of Laminated Moderately Thick Elliptical Plates	Akif Kutlu, Mehmet Hakkı Omurtag
370	A New Computational Method for the Assessment of URM Buildings	Ismail Ozan Demirel, Alper Aldemir, Murat Altuğ Erberik
454	Optimum Design of Steel Space Frames by Artificial Bee Colony Algorithm	İbrahim Aydoğdu, Alper Akın, Mehmet Polat Saka
741	Continuous Contact Problem for Two Elastic Layers Loaded by Means of a Rigid Circular Punch and Resting on Elastic Half Infinite Plane	Erdal Öner, Ahmet Birinci
778	Effect of Deck Plate Thickness on the Structural Behavior of Steel Orthotropic Highway Bridges	Abdullah Fettahoglu
938	Nonlinear Analysis Of A Three Dimensional Mixed Formulation Frame Finite Element That Is Based On Hu-Washizu Functional	Ozan Soydaş, Afşin Sarıtaş

STREQ9

Structural Engineering and Earthquake Engineering Session 9; 19 October 2012 14:30-16:00 Hall: Kemal Kurdaş		
Session Chair : Kadir Güler		
Abstract Number	Title	Authors
72	Free Vibration of Variable Thickness Cylindrical Shell Using Wittrick-Williams Algorithm	Nihal Husien Fuad Elkaabazi
101	Dynamic Analysis of Viscoelastic Cylindrical Helixes Subjected to Impulsive-Sinusoidal Load by Using the Finite Element Method	Hakan Argeso, Faruk Fırat Çalım, Nihal Eratlı, Mehmet Hakkı Omurtag
124	The Stability Analysis of FGM-Metal-FGM Layered Cylindrical Shells Under a Lateral Pressure	Abdullah Sofiyev, Zihni Zerin, Ali Deniz, Mehmet Avcar, Polat Özyiğit, Basri Mert Tuğlu
229	Effect of Stacking Sequence and Orientation on the Dynamic Response of Fiber Metal Laminate Plates	Cenk Aksoylar, Mehmet Hakkı Omurtag
259	Hunting Search Algorithm Based-Design Optimization of Moment Resisting Steel Frames	Erkan Doğan, Mehmet Polat Saka
334	Performance of Optimum Tuned Mass Dampers According to Number of Structure Storey	Gebrail Bekdaş, Sinan Melih Niğdeli

STREQ10

Structural Engineering and Earthquake Engineering Session 10; 19 October 2012 16:30-18:00 Hall: Kemal Kurdaş		
Session Chair : Kağan Tuncay		
Abstract Number	Title	Authors
206	Active Tendon Control of Structures under Near-Fault Ground Motion Excitation	Sinan Melih Niğdeli, M. Hasan Boduroğlu
167	Effect of SSI on the Response of Seismic Isolated Bridges Subjected to Near-Field Ground Motions	Gökhan Özdemir, Berna Unutmaz
1377	Evaluation of Inelastic Displacement Demand Determination Approach of Turkish Earthquake Code 2007	Mehmet Palancı, Şevket Murat Şenel
330	Optimum Tuned Mass Damper Design for Structures at Near and Far Fault Regions	Sinan Melih Niğdeli, Gebrail Bekdaş
1286	Evaluation of Preliminary Assessment Procedures for Reinforced Concrete School Buildings in Turkey	Levent Mazılıgüney, Ahmet Yakut, Koray Kadaş, İlker Kalem
1019	Vulnerability Assessment of Two Instrumented Masonry Buildings in Antakya (Hatay, Turkey)	Mehmet Cemal Genes, Murat Altuğ Erberik, Lars Abrahamczyk, Polat Gülkan, Murat Bıkçe, Selçuk Kaçın, Ahmet Yakut, Jochen Schwarz

STREQ16

Structural Engineering and Earthquake Engineering Session 16; 19 October 2012 10:00-11:30 Hall: F		
Session Chair : Gökhan Özdemir		
Abstract Number	Title	Authors
188	Localizing Structural Damage using Static and Dynamic Damage Locating Vector Methods	Burcu Güneş, Oğuz Güneş
1437	Monitoring of super load passage over highway bridges in Turkey	Ahmet Türer, Alvand Mehrabzade, Serkan Bodur
1439	Performance Evaluation of a Long Span Bridge Before and After Retrofit	H. Burak Gökçe, F. Necati Çatbaş
43	Effect of Reinforce Concrete Core Shear Wall on relative drift and torsion stiffness of reinforced concrete tall buildings	Seyed Mojtaba Ghoreishamiri
1108	Redesigning of an Air Freight Terminal for Safety Check: Case Study	Fatih Yılmaz, Ayşe Daloğlu

STREQ17

Structural Engineering and Earthquake Engineering Session 17; 19 October 2012 14:30-16:00 Hall: C		
Session Chair : Burcu Güneş		
Abstract Number	Title	Authors
1436	Structural monitoring of space truss systems	Alper Ö. Gür, Ahmet Türer, Ali Faik Ulusoy, Gürkan Akdoğan
232	Experimental Modal Analysis of a Three-Story Steel Frame with Bolted Flange Joints	Maziar Mahdavi, Mohammad Reza Davoodi, Amin Mostafavian
366	Detecting Damages in Beams Using Hilbert-Huang Transform	Hürmet Küçükgöncü, Kamil Aydın
394	Application of (Probabilistic) Structural Reliability Model Incorporating Health Monitoring in Condition Assessment of Reinforced Concrete Structure under Corrosion	Fahimeh Jalalifar, Amir Tarighat
630	Artificial Neural Network (ANN) Model for Damage Detection of a Concrete Multi-Span Bridge	Maryam Freidooni, Amir Tarighat

STREQ18

Structural Engineering and Earthquake Engineering Session 18; 19 October 2012 16:30-18:00 Hall: C		
Session Chair : Hakan Erdoğan		
Abstract Number	Title	Authors
51	Out-of-plane behavior of unreinforced masonry and aerated concrete walls strengthened with cfrp strips	Nalan Bulut, Özgür Anıl
593	Shear Behavior of Masonry Wall Strengthening with Fiber Reinforced Mortar Stucco	Bengi Arısoy, Celal Kozanoğlu, Emre Ercan, Ali Demir
874	Assessment of historical masonry buildings in Istanbul	Fuat Aras
941	Nonlinear Behavior of Industrial Masonry Chimneys to Blast- Induced Ground Vibration	Kemal Hacıfendioğlu, Emre Alpaslan, Gökhan Saracoğlu
1443	Design Examples of a Textile Mortar System for Strengthening of Historical Masonry Structures	Christoforos Kolyvas, İhsan E. Bal, Antonios Bernakos, Thanasis Triantafyllou

MAT8

Engineering Materials Session 8; 19 October, 2012			10:00-11:30	Hall D
Session Chair : Turan Özturan				
Abstract Number	Title	Authors		
1297	Hemcrete Concrete: Introduction and Application	Mohammad Khayyam, Elias Behmagham, Hedayat Veladi		
1344	Durability of the Painted Rendered Facades	Ruta Miniotaite		
1409	Improving Construction Sustainability Using Innovative Construction Materials	Farrukh Arif, Mehmet Emre Bayraktar, Taha Alyousef		
894	Identifying an Optimal Shape Parameter to Estimate Grain Size Distribution of Concrete Samples Using Imaging Techniques	Murat Özen, İsmail Özgür Yaman, Murat Güler		
278	Effect of Calcium Nitrate and Triisopropanolamine on the Setting Time and the Evolution of Short-Term Mechanical Strengths of Cement Mortars	Mustapha Cheikh-Zouooui, Abdelaziz Boudchicha, Nasreddine Chikh, Jean Louis Galias		

MAT9

Engineering Materials Session 9; 19 October, 2012			14:30-16:00	Hall D
Session Chair : Serdar Göktepe				
Abstract Number	Title	Authors		
450	Effects of Carbon Nano tubes on the Mechanical Behavior of Composite Sand-Cement Mortar and Concrete Samples	Kamran Rahmati Shadbad, Ali Hadidi, Babak Dindar Safa		
517	Effects of Using Nano-SiO ₂ and Wastewater Sludge on Properties of Cement Mortar	Haleh Sehat, Hossein Ganjidoust, Nader Mokhtarani		
1327	Pore Structure of Cement Mortars Containing Fly Ash and Different Nano Powders	Meral Oltulu, Remzi Şahin		
837	Engineering Properties of Cement-Based Materials Incorporating Raw Sewage Sludge (RSS) as a Water Replacement	Alaa Hamood, Jamal Khatib		

MAT10

Engineering Materials Session 10; 19 October, 2012			16:30-18:00	Hall D
Session Chair : Sinan Turhan Erdoğan				
Abstract Number	Title	Authors		
180	Effect of Industrial By-products Fillers on the Properties of Blended Cements in Sulphate Environments	İbrahim Messaoudene, Raoul Jauberthie, Laurent Molez, Damien Rangeard, Abdelghani Naceri		
646	Effect of Cement Type and W/C Ratio on the Durability Performance of Mortars in Sodium Sulfate Solution	Ebru Erten, Çağlar Yalçınkaya, Selçuk Türkel		
1435	Performance of Various Mineral Additive - Calcium Aluminate Cement Blends Exposed to Sulfate Attack	Tuğhan Delibaş, Önder Kırca, İsmail Özgür Yaman		
77	Comparing Pozzolanic Activity of Metakaolin and Calcined Kaolin, and their Effects on Strength of Concrete	Erhan Güneyisi, Mehmet Gesoğlu, Turan Özturan, Kasım Mermerdaş		
951	Utilization of Bottom Ash in Lightened Harman Brick Production	Mehmet Canbaz, Uğur Albayrak		

HYD8

Hydraulic Engineering Session 8; 19 October, 2012			10:00-11:30	Hall B
Session Chair : İsmail Aydın				
Abstract Number	Title	Authors		
1293	Comparison of boundary-blockage and boundary-friction effects on an air-entraining vortex	Kerem Taştan		
1425	A Comparison between 3D LES of Vortex Shedding of Uniform and Tapered Cylinders in Subcritical Reynolds Number	Mostafa Zeinoddini, Vahid Tamimi, Selda Shahvaghari Asl		
0716	Modeling of Aeration on the Spillways	Egemen Aras, Mehmet Berkün		
0614	Experimental Study on the Effects of Inlet Flows on Aeration in Chute Spillway (Case Study: Jare Dam, Iran)	Hamid Shamloo, Sarvenaz Hoseini-Ghafari, Mohamad Kavianpour-Esfahani		
0649	Hydraulic Model and Numerical Study of Vortex Formation in Head Pond of Adacami Hydropower Plant	İsmail Aydın, Mete Köken, Akın Aybar		

HYD9

Hydraulic Engineering Session 9; 19 October, 2012			14:30-16:00	Hall B
Session Chair : Arda Şorman				
Abstract Number	Title	Authors		
0177	Erosion and Sediment Transport Problems in the Harran Plain	Yakup Darama		
0357	The use of Satellite Data for Sustainable Development of the Water Resources in the Mountainous Terrain	Zuhal Akyürek, Serdar Süreer, Özgür Beşer, Kenan Bolat, Aynur Şensoy, Ali Arda Şorman, Aydın G. Ertürk		
0867	Impact of Land Use /Cover Changes on Water Quality and Quantity in a Calibrated Hydrodynamic Model	Sezar Gülbaz, Cevza Melek Kazezyılmaz-Alhan		
0122	How Well Can Ensemble-Averaging Approach Account for the Sub-Grid Heterogeneity in Hydraulic Modeling Problems	Ahmet Emin Kurtoğlu, İsmail Haltaş		
1389	River Basin Management and Characterization of Water Bodies in North Cyprus	Umut Türker, Benny R. Hansen		

HYD10

Hydraulic Engineering Session 10; 19 October, 2012			16:30-18:00	Hall B
Session Chair : Halil Önder				
Abstract Number	Title	Authors		
0970	Surface Water/Ground Water Interactions in Büyükçekmece Wetland Site	Uğur Boyraz, Cevza Melek Kazezyılmaz-Alhan		
0419	Seepage Analysis through Earth-fill Dams Having Random Fields	Melih Çalamak, Elçin Kentel, Ali Melih Yanmaz		
1369	Electricity Market in Turkey – 2011	Mümtaz Ak, Melih A. Yanmaz, Elçin Kentel		
0542	Analysis of 2010 Bostancı-Güzelyurt Flash Flood	Bertuğ Akıntuğ, A. Melih Yanmaz, Zuhul Akyürek, Serdar Sürer		
1218	Solution of One Dimensional Transient Flow in Composite Aquifers Using Stehfest Algorithm	Ürün Bakar, Halil Önder		
1383	Groundwater Vulnerability Assessment with Drastic Method: A Case-Study on Kırıkkale Plain, Turkey	Halil Önder, Ahmet Hakan Büyükdemirci		

GEO6

Geotechnical Engineering Session 6; 19 October, 2012			10:00-11:30	Hall A
Session Chair : Oğuzhan Akbaş				
Abstract Number	Title	Authors		
452	Influence of Trench Soil Properties on the Accuracy of Pressure Cell Measurements in Embankment Dams	Dorsa Elmi, Ali Asghar Mirghasemi		
509	Assessment the Influence of Building's Geometry, position and Weight on lining loads using a Numerical Finite Element Method	Amir Hassan Rezaei, Hooshang Katebi		
742	Surface Settlement Prediction for Tunnels of Algiers Metro with Finite Element and Empirical Methods	Mustapha Akchiche, Ramdane Bahar		
1152	Marine Buried Pipeline Upheaval Buckling In Clayey Backfill Using Finite Element Analysis	Alahyar Koochekali, Behrouz Gatmiri, Amirabbas Koochekali		
62	Study of the performance of constitutive laws for interface soil-pile under cyclic solicitation: Application of thermo-active pile in seasonal mode operation	Maria Elizabeth Suryatriyastuti, Hussein Mroueh, Sébastien Burlon		
708	Effects of Liquefiable Layer on Dynamic Response of Anchored Flexible Quay Wall	Ashraf Zekri, Mohammad Hossain Aminfar, Abbas Ghalandarzadeh, Pooyan Ghasemi		
579	Numerical Analysis of Buried Pipelines Subjected to Earthquake Effect	İsa Vural, Berna Unutmaz, Nihat Sinan Işık, Seyhan Fırat		

GEO7

Geotechnical Engineering Session 7; 19 October, 2012			14:30-16:00	Hall A
Session Chair : Cem Akgüner				
Abstract Number	Title	Authors		
566	Comparisons between the Estimations of the p- δ Behavior of a Single Pile in a Glacial Till under Saturated and Unsaturated Conditions Using Two Different Numerical Techniques	Nil Taylan, Aykut Şenol, Sai K. Vanapalli		
945	Finite Element Analysis for Seismic Behaviour of Point Bearing Piles for Different Soil Conditions	Özgür Yurdakul, Mehmet İnanç Onur, Ahmet Tuncan, Mustafa Tuncan		
98	Mechanical Behaviour of Earth Retaining Walls	Lazhar Belabed, Jarir Yahiaoui, Hacene Benyaghla		
165	The Back Analysis of a 25m Deep Excavation Supported by Anchored Bored Pile Walls	A. Mengüç Ünver, İnci Süt Ünver		
1015	A Critical Assessment of Rammed Aggregate Pier Load Test Results	Ece Kurt-Bal, Kemal Önder Çetin		
665	The Construction Management Assessment of a Railway Embankment Improvement by Geogrid and Jetgrout Technics	Murat Anbarcı, Bora Arslan, Müslüm Gündüz, Ekrem Manisalı		
1438	Settlement of Foundations on Soils Improved by Columns	Mahmut Y. Şengör, Maral Tekin, Onur Pekcan, Şevki Öztürk, Ufuk Ergun		

GEO8

Geotechnical Engineering Session 8; 19 October, 2012			16:30-18:00	Hall A
Session Chair : Berna Unutmaz				
Abstract Number	Title	Authors		
1191	Freezing-Thawing Effect on Shear strength of Stabilized Clayey Soils	Murat Olgun, İbrahim Hakkı Erkan, Özcan Tan		
916	A Study of Fluctuations in Cyclic Large Strain Behavior of Granular Soils	Ali Fırat Çabalar, Kağan Tuncay		
919	Influences of Various Shapes of Sand Particles, and Pore Fluid Viscosity on the Behavior of Sand- Clay Mixtures	Rozghar Abdullah Hasan, Ali Fırat Çabalar		
1204	Pre and post freeze - thaw behavior of silty sand soils	Gökhan Çevikbilen, Mustafa Hatipoğlu, Recep İyisan, Fazıl Kıran, Mehmet Bol		
343	The Effect of CaCO ₃ Content on Recompression Index	Gökhan Çevikbilen, Muniram Budhu		
1117	Water content variability of unsaturated soil specimens in conventional strength tests	Reza Ahmadi-Naghadeh, Nabi Kartal Toker, Mohammad Ahmadi-Adli		

TRANS7

Transportation Engineering Session 7; 19 October, 2012			10:00-11:30	Hall C
Session Chair : Hediye Tüydeş-Yaman				
Abstract Number	Title	Authors		
371	A Gradient Projection-Based Linearization Algorithm for Traffic Assignment Problem	Babak Javani, Abbas Babazadeh		
726	Location Of Optimum Fire Station	Nasser Pourmoallem, Mohammad Kamrani, Amin Mohammadi		
932	Artificial bee colony algorithm for continuous network design problem with link capacity expansions	Özgür Başkan, Mauro Dell'Orco		
953	A Reinforcement Learning Based Algorithm for Area Traffic Control	Cenk Ozan, Özgür Başkan, Halim Ceylan, Soner Haldenbilen		