



21世紀COEプログラム
"都市地震工学の展開と体系化"

Third International Conference on Urban Earthquake Engineering

2006年3月6-7日
東京工業大学 すすかけ台キャンパス すすかけホール

プログラム

3月6日

	Room A	Room B	Room C
9:00~9:30	参加登録		
9:30~9:50	開会の挨拶		
9:50~10:25	基調講演 (司会:瀬尾和大)		
10:25~11:00	基調講演 (司会:二羽淳一郎)		
11:00~12:08	地震動 (司会:翠川三郎・元木健太郎)	コンクリート構造 (司会:二羽淳一郎・三木朋広)	
12:08~13:00	昼食		
13:00~14:25	地震動 (司会:P. Somerville・K. L. Wen)	コンクリート構造 (司会:河野進・Y-C. Wang)	
14:25~15:45	ポスターセッション (Room C)		
15:45~18:15	地盤工学 (司会:時松孝次・J-H. Hwang / R. W. Boulanger・飛田哲男)	鋼構造 (司会:山田哲・H-L. Hsu / 多田元英・松本由香)	
18:30~20:00			懇親会

3月7日

	Room A	Room B	Room C
9:30~10:05	基調講演 (司会:翠川三郎)		
10:05~12:03	地震防災と人間行動 (司会:大野隆造・吉川肇子 / 瀬尾和大・H-K. Chen)	橋梁構造 (司会:葛西昭・渡辺学歩 / 佐々木栄一・T-Y. Lee)	
12:03~13:00	昼食		
13:00~13:35	基調講演 (司会:大町達夫)		
13:35~15:35	津波 (司会:大町達夫・H. Latief)	制震・免震構造 (司会:笠井和彦・緑川光正 / 三田彰・竹内徹)	
15:35~15:55	コーヒープレイク		
15:55~18:10	津波 (司会:A. C. Wijeyewickrema・A. Ruangrassamee)	地震応答解析・実験 (司会:和田章・藤田香織 / 堀田久人・H-T. Chen)	
18:10~18:15	閉会の挨拶		

3月6日 Room A

9:00~9:30	参加登録	
9:30~9:40	開会の挨拶	大町達夫(東京工業大学)
9:40~9:50	学長挨拶	相澤益男(東京工業大学)

基調講演 (地震動と地震防災) (司会:瀬尾和大)

9:50~10:25	Earthquake Engineering Reserch And Practice In Mexico After The Michoacan Earthquake of 1985: A 2006 Review	Luis Esteva/ メキシコ国立自治大学
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基調講演 (地震応答解析・実験) (司会:二羽淳一郎)

10:25~11:00	Recent Advances in Hybrid Testing for Earthquake Performance Evaluation	P. Benson Shing/ カリフォルニア大学サンディエゴ校
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地震動 (司会:翠川三郎・元木健太郎)

11:00~11:34	Differences in Earthquake Source and Ground Motion Characteristics between Surface and Buried Earthquakes	Paul Somerville/ URS Corporation
11:34~11:51	Identification of Nonlinear Site Response Using the H/V Spectral Ratio Method	Kuo-Liang Wen/ 台湾中央大学
11:51~12:08	Development of Earthquake Motion Simulator with High Resolution and Its Application	市村 強/ 東京工業大学

地震動 (司会:Paul Somerville・Kuo Liang Wen)

13:00~13:34	Long Period Ground Motion Characteristics in a Mega-city Osaka during Expected Huge Subduction Earthquake	釜江克宏/ 京都大学
13:34~13:51	Monitoring and Interpretation of Creep Behavior in Chihshang Active Fault Zone	Ray Shyan Wu/ 台湾中央大学
13:51~14:08	How to Evaluate Spatial Distribution of Earthquake Ground Motion in the Northern Japan	高井伸雄/ 北海道大学
14:08~14:25	A Study on Waveform Inversion for Characterized Source Models Using Genetic Algorithms	元木健太郎/ 東京工業大学

Poster Session

14:25~15:45	ポスターセッション(CUEE 教授その他) (司会:笠井和彦)	
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地盤工学 (司会:15:45-17:15 時松孝次・Jin-Hung Hwang, 17:15-18:15 Ross W. Boulanger・飛田哲男)

15:45~16:15	Assessing the Potential Strength Loss and Deformations in Low Plasticity Silts and Clays during Earthquakes	Ross W. Boulanger/ カリフォルニア大学デービス校
16:15~16:30	Pushover Analysis for Lateral Pile Subjected to Liquefaction-induced Flow Pressure	Jin-Hung Hwang/ 台湾中央大学
16:30~16:45	Behaviour of Piled Bridge Abutment on Liquefiable Soils	高橋章浩/ 土木研究所
16:45~17:00	Observed Pile-Soil Interaction During Buckling Instability	Subhamoy Bhattacharya/ オックスフォード大学
17:00~17:15	Dynamic Behavior of Embankments Resting on Liquefiable Sandy Deposit	飛田哲男/ 京都大学
17:15~17:30	Effect of Saturation on Liquefaction Resistance of Sandy Soil	岡村未対/ 愛媛大学
17:30~17:45	Nonlinear Behavior of Taipei Silty Clay under Irregular Strain Loading	Chung-Jung Lee/ 台湾中央大学
17:45~18:00	Strtength and Deformation Characteristics of Soft Rocks from Guadalupe Tuff Formation in Metrto Manila When Subjected to Large Cyclic Loading	内村太郎/ 東京大学
18:00~18:15	Developing Time Varying Wave Transmitting Boundaries Using Joint Time-Frequency Representation Method	Alireza Farahani/ 東京工業大学

3月7日 Room A

基調講演（地震動と地震防災）（司会：翠川三郎）

9:30~10:05	Development of Simple, Economic and Efficient Retrofit Method Considering Local Availability and Acceptability for Masonry Buildings in Earthquake Prone Regions	目黒公郎/ 東京大学
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地震防災と人間行動（司会：10:05-11:12 大野隆造・吉川肇子, 11:12-12:30 瀬尾和大・Huey-Kuo Chen）

10:05~10:30	Vehicle Routing for Rescue Operation in Earthquake	Huey-Kuo Chen/ 台湾中央大学
10:30~10:55	Learning Disaster Preparedness and Response Through Gaming Simulation	吉川肇子/ 慶應大学
10:55~11:12	Risk Assessment for Taiwan Residential Earthquake Insurance Pool- Modeling and Application	Wenko Hsu/ 台湾中央大学
11:12~11:29	A Proposal on a Method to Determine Risk-Based Seismic Design Level	中島正人/ 電力中央研究所
11:29~11:46	Changes of Building Use and Structure in Tokyo 23-Ku	飯塚祐介/ 東京工業大学
11:46~12:03	Development of Effective Tool for Virtual Experience of Environmental Hazard -A Survey of Disaster Education Facilities in Japan-	柳 在鎬/ 東京工業大学

基調講演（津波）（司会：大町達夫）

13:00~13:35	Global Disaster due to the 2004 Indian Ocean Tsunami	今村文彦/ 東北大学
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津波（司会：大町達夫・Hamzah Latief）

13:35~14:00	Environmental Restoration of Tsunami Impacted Inland Water Bodies in Sri Lanka	Priyantha Gunaratna/ モラツワ大学
14:00~14:17	Report of two field visits to assess tsunami damage in Sri Lanka due to the Sumatra-Andaman Earthquake of December 26, 2004	Anil C. Wijeyewickrema/ 東京工業大学
14:17~14:34	Tsunami Arrival Time in Sri Lanka due to the 2004 Sumatra Earthquake	井上修作/ 東京工業大学
14:34~14:51	Extraction of Tsunami Inundation Area in the Eastern Part of Sri Lanka due to the 2004 Sumatra Earthquake Using High-resolution Satellite Images	三浦弘之/ 東京工業大学
14:51~15:08	Effect of Wave Frequency Dispersion in the Indian Ocean Tsunami	鳴原良典/ 防衛大学
15:08~15:25	What Can We Do for Minimizing Tsunami Disaster?	岩崎伸一/ 防災科学技術研究所

津波（司会：Anil C. Wijeyewickrema ・ Anat Ruangrassamee）

15:55~16:20	Accounts and Modeling of the Old and Modern Sumatra Tsunamis for Mitigation in the Future	Hamzah Latief/ バンドン大学
16:20~16:45	Performance and Database of Buildings Damaged in Thailand in the 2004 Indian Ocean Tsunami	Anat Ruangrassamee/ チュラロンコン大学
16:45~17:02	Problem and Improvement of the Tsunami Warning System	高橋智幸/ 秋田大学
17:02~17:19	Early Tsunami Forecasting using Real-time Offshore Observatories	松本浩幸/ 海洋研究開発機構
17:19~17:36	Numerical Simulation of Tsunami Inundation in Urban Area	平石哲也/ 港湾空港技術研究所
17:36~17:53	Development of High Performance Simulator for Tsunami Based on Shallow Water Equations	赤穂良輔/ 東京工業大学
17:53~18:10	Study on the Oil Spread Caused by 1964 Niigata Earthquake Tsunami	岩淵洋子/ 東北大学

3月6日 Room B

コンクリート構造 (司会:二羽淳一郎・三木朋広)

11:00~11:20	Damage Control System Using Prestressed Concrete Members with Graded Composite Strands	河野 進/ 京都大学
11:20~11:40	Testing on 2-story and 2-bay Reinforced Concrete Frames with Substandard Reinforcing Details	Yung-Chih Wang/ 台湾中央大学
11:40~12:00	Mechanical Characteristics of Reinforced Concrete Members Strengthened by Carbon Fiber Flexible Reinforcement	佐藤靖彦/ 北海道大学

コンクリート構造 (司会:河野進・Yung-Chin Wang)

13:00~13:17	Crack Tracing Process for Smeared-Crack-Based NLFEM	佐藤裕一/ 京都大学
13:17~13:34	Shear Behavior of Connecting Bars on Precast Joint under Axial Tensile Force and Shear Force from Seismic Load	香取慶一/ 東京工業大学
13:34~13:51	Development of RC Flat Beam and Column Joint System	西村康志郎/ 東京工業大学
13:51~14:08	Performance Assessment for Reinforced Concrete Buildings with Soft First Stories	長江拓也/ 京都大学
14:08~14:25	Nonlinear Analysis of Reinforced Concrete Viaducts by 3D Lattice Model	三木朋広/ 東京工業大学

鋼構造 (司会:15:45-17:10 山田哲・Hsieh-Lung Hsu, 17:10-18:01 多田元英・松本由香)

15:45~16:19	Collaborative Structural Analysis System by Linking Sophisticated Programs through Internet	多田元英/ 大阪大学
16:19~16:36	Seismic Behavior of Concrete Encased Steel Columns Subjected to Axial Load and Bi-axial Bending	Hsieh-Lung Hsu/ 台湾中央大学
16:36~16:53	Continuous Column Effects on Seismic Response of Steel Moment Frames in Perspective of Instantaneous Stability	田川浩之/ 東京工業大学
16:53~17:10	Development of Link-to-Column Connections for Steel Eccentrically Braced Frames	岡崎太一郎/ ミネソタ大学
17:10~17:27	Dynamic Tests of Steel Frames with Column Uplift for Seismic Response Reduction	石原 直/ 国土技術政策総合研究所
17:27~17:44	Seismic Behavior of Beam-Column Connection Based on Damage-Controlled Design	吉敷祥一/ 東京工業大学
17:44~18:01	Study on Fracture and Ultimate Performance of Steel Beam-to-Column Connections	松本由香/ 横浜国立大学

3月7日 Room B

橋梁構造 (司会: 10:05-11:13 葛西昭・渡辺学歩, 11:13-12:05 佐々木栄一・Tzu-Ying Lee)

10:05~10:22	Proposal of a Remote Bridge Monitoring System for Damage Detection	佐々木栄一/ 横浜国立大学
10:22~10:39	Shake Table Tests of Reinforced Concrete Bridge Columns That Mitigate Residual Displacements Following Earthquake	堺 淳一/ 土木研究所
10:39~10:56	Nonlinear Seismic Response Control of Isolated Bridges Using MR Dampers	Tzu-Ying Lee/ 台湾中央大学
10:56~11:13	Cyclic Elasto-Plastic Behavior of Buckling-Restrained Brace Members	葛西 昭/ 名古屋大学
11:13~11:26	Ductility of Welded Joints with Weaker Welding Material	田辺篤志/ 東京工業大学
11:26~11:39	Effect of Near-field Ground Motions on the Inelastic Force and Displacement Demand of Bridge Structures	渡辺学歩/ 東京工業大学
11:39~11:52	Seismic Resistance Evaluation of Beam-to-Circular Column Connections of Steel Bridge Frame Piers with Circular Column	木下幸治/ 東京工業大学
11:52~12:05	Response Analysis of Bridge Supported by C-bent Columns	永田聖二/ 東京工業大学

制震・免震構造 (司会: 13:35-14:43 笠井和彦・緑川光正, 14:43-15:34 三田彰・竹内徹)

13:35~13:52	MATLAB-Based Health Monitoring System for Buildings and Its Data Management System	三田 彰/ 慶應大学
13:52~14:09	Seismic Retrofit of Existing Building with Hysteretic Dampers	竹内 徹/ 東京工業大学
14:09~14:26	Prediction for Cumulative Plastic Deformation of Damper in Elasto-Plastically Damped Structure	伊藤浩資/ 東京工業大学
14:26~14:43	Seismic Isolation Buildings in Japan	大宮 幸/ 東京理科大学
14:43~15:00	Fundamental Study on Effect of Damping on Distribution of Story Shear Coefficient	大木洋司/ 東京工業大学
15:00~15:17	Evaluation on Aseismic Performance of Hybrid Type of Base-Isolation System with Powered-Mass Couplers Damper	向井洋一/ 奈良女子大学
15:17~15:34	Performance-based Seismic Provisions for Seismically Isolated Buildings in Japan	緑川光正/ 北海道大学

地震応答解析・実験 (司会: 15:55-17:03 和田章・藤田香織, 17:03-17:54 堀田久人・Huei-Tsy Chen)

15:55~16:12	Residual Seismic Capacity of Concrete Block Infilled RC Frames: Crack Development Mechanism of Concrete Block Wall	中埜良昭/ 東京大学
16:12~16:29	Seismic Responses of Structure Subjected to Artificial Ground Motions Generated Using 1D, 2D and 3D Ground Model	Huei-Tsy Chen/ 台湾中央大学
16:29~16:46	Equivalent Single-Story Model for Multi-Story Unsymmetric Frame Buildings with Elasto-Plastic Seismic Control Devices	藤井賢治/ 東京理科大学
16:46~17:03	Spectrum-Based Prediction Rule for Peak Structural Responses of SDOF System Pounding Against Rigid Structures	Binh Thanh Tran/ 東京工業大学
17:03~17:20	Seismic Shutoff Characteristics of Intelligent Gas Meter Deployed for Individual Customers	丸山喜久/ 千葉大学
17:20~17:37	A Shaking Table Test of 2-story R/C Frame with Partial Walls Independent from Columns	堀田久人/ 東京工業大学
17:37~17:54	Earthquake Response Monitoring of Traditional Japanese Timber Pagoda	藤田香織/ 首都大学東京

ポスターセッション (14:25~15:45) Room C (司会: 笠井和彦)

地震動

Lessons Learned from Recent Earthquake Disaster - For Mega-cities on Huge Sedimentary Basins	瀬尾和大/ 東京工業大学
Joint inversion of receiver function and Rayleigh-wave phase velocity for estimation of S-wave velocity of sedimentary layer in Niigata, Japan	山中浩明/ 東京工業大学
A Method for Estimation of 2-D Subsurface Structure using Gravity and Microtremor Data Simultaneously	盛川 仁/ 東京工業大学
Estimation of S-wave Velocity Model in the Western Coastal Plain of Taiwan	Che-Min Lin/ 台湾中央大学

地盤工学

Effects of Lateral Response of Embedded Footing on Piles	田村修次/ 京都大学
Detection of Subsurface Vs Recovery Process using Microtremor and Weak Ground Motion Records in Ojiya, Japan	新井 洋/ 防災科学技術研究所 井澤 淳/ 東京工業大学
Active Type Shear Box and Its Application on a Stability of Shallow Tunnel in a Centrifuge	井澤 淳/ 東京工業大学
Estimation of Seismic Behavior of Pile Group in Non-liquefied and Liquefied Ground through Centrifuge Model Tests	鈴木比呂子/ 東京工業大学
Analytical study for Damage to Cast-in-place Concrete Pile in Laterally Spreading Ground during the 1995 Hyogoken-Nambu Earthquake	古山田耕司/ 鹿島建設 吉田洋之/ 東電設計
The Construction of Beam-on-Spring Model Considered Liquefaction between the Piles	吉田洋之/ 東電設計
1-G Shaking Table Tests on the Lateral Resistance of In-line Double Piles Subjected to Lateral Spreading	Jonathan R. Dungca/ 東京工業大学
Evaluation of nonlinear soil amplification at Ojiya K-NET and JMA stations during the 2004 Mid Niigata Prefecture Earthquake	関口 徹/ 東京工業大学
Micro-Tremor Measurements at a Fill Dam Damaged by the 2004 Niigata-Chuetsu Earthquake	大町達夫/ 東京工業大学

地震防災と人間行動

Consideration about Influence of Floor Characteristics on Furniture Behavior during Earthquake -Fundamental	
Study on Establishment of Evaluation Method for Seismic Resistance of Floor Finishing System Part 2- Trust Security, and Peace of Mind	横井 健/ 東京工業大学 藤井 聡/ 東京工業大学
Use of Digital City for Seismic Hazard Representation	翠川三郎/ 東京工業大学

コンクリート構造

Research on Weight Reduction of Composite PC Beam Using Prestressed UFC Truss	村田裕志/ 東京工業大学
Applicability of Design Code and Simplified Truss Model for Shear Carrying Capacity of Externally Prestressed Concrete Beams	Chunyakom Sivaleepunth/ 東京工業大学

橋梁構造

Proposed Torsional Hysteretic Model for RC Columns under Combined Cyclic Bending and Torsion	Tirasit Paiboon/ 東京工業大学
Carbon Fiber Sheet Retrofit of Reinforced Concrete Bridge Columns under Cyclic Loading	Richelle Mondero Gallardo/ フィリピン大学
Seismic Shear Strength Evaluation of Circular Reinforced Concrete Bridge Piers	Tarin Kungsanant/ チュラロンコン大学

制震・免震構造

Progress in E-Defense Shaking Table Experiments of Full-Scale 5-Story Building with Dampers	笠井和彦/ 東京工業大学
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地震応答解析・実験

Evaluation of Earthquake Resistance of Steel Building Structure based on Deformation Capacity of Members	山田 哲/ 東京工業大学
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