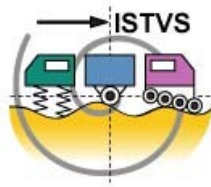


**Joint North America, Asia-Pacific ISTVS Conference
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SYMPOSIA AND TECHNICAL SESSIONS

(Last updated on June 19, 2007)

		Middle Gold Room, Westmark Hotel	East Gold Room, Westmark Hotel	
Sunday, June 24th (Day 2)	Symposium I	Session 11: <i>High-Fidelity Ground Platform and Terrain Mechanics Programs</i> Chairs: Wendell Gray and Qing Liu	Session 21: <i>Modeling and Simulation (Part 1 of 2)</i> Chairs: Hiroshi Nakashima and Corina Sandu	Symposium II
		11:00 – 12:00 pm		
	Symposium III	Session 12: <i>Snow</i> Chairs: Sally Shoop and Takashi Kataoka	Session 22: <i>Modeling and Simulation (Part 2 of 2)</i> Chairs: Keiji Watanabe and Ahmed Soliman	Symposium IV
1:00 – 2:00 pm				
Monday, June 25th (Day 3)	Symposium V	Session 31: <i>Soil Mechanics and Unique Applications of Terramechanics</i> Chairs: Lal Kushwaha and Junya Yamakawa	Session 41: <i>Terrain Impacts</i> Chairs: Heidi Howard and Patricia Sullivan	Symposium VI
		2:30 – 4:15 pm		
Symposium V	Session 51: <i>Terrain Roughness and Ride (Part 1 of 2)</i> Chairs: Linda Spears and Rosa Affleck	Session 61: <i>Robotics and Planetary Terramechanics (Part 1 of 2)</i> Chairs: Kazuyoshi Tateyama and Lutz Richter	Symposium VI	
	10:10 – 11:40 am			
Symposium V	Session 52: <i>Terrain Roughness and Ride (Part 2 of 2)</i> Chairs: Awatif Hassan and Hidenori Murakami	Session 62: <i>Robotics and Planetary Terramechanics (Part 2 of 2)</i> Chairs: Jim Lever and Mustafa Alsaleh	Symposium VI	
	12:50 – 1:50 pm			



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SESSION OVERVIEW

DAY TWO

Session 11 High-Fidelity Ground Platform and Terrain Mechanics Programs

- 11:00 am / 0101 High-Fidelity Ground Platform and Terrain Mechanics Modeling for Military Applications Involving Vehicle Dynamics and Mobility Analysis
11:15 am / 0202 A Vehicle Terrain Interface
11:30 am / 0303 Verification and Validation of a Winter Driving Simulator
11:45 am / 0404 Cross-Country Mobility on Various Snow Conditions for Validation of a Virtual Terrain

Session 12 Snow

- 1:00 pm / 0105 Tire Slip-Angle Force Measurements on Winter Surfaces
1:15 pm / 0206 Over-Snow Rolling Resistance of Wheeled Vehicles
1:30 pm / 0307 Characterization of Snow Cover for Vehicle Mobility Using Ground Penetrating Radar – Experiments and Modeling
1:45 pm / 0408 Development of Tire-on-Stochastic Snow Models Using a Polynomial Chaos Approach

Session 21 Modeling and Simulation (Part 1 of 2)

- 11:00 am / 0109 Semi – Analytical Semi Numerical Track Soil Model
11:15 am / 0210 Simulation Model of Rotary Tillage for Designing Rotary Blade - Deformation and Stress Analysis of Rotary Blade
11:30 am / 0311 Parameter Estimation Method Using an Extended Kalman Filter
11:45 am / 0412 A Holistic Simulation Approach to Assess Off-Road Mobility Performance

Session 22 Modeling and Simulation (Part 2 of 2)

- 1:00 pm / 0113 A Multi-Body Model of an Agricultural Tractor for Driving Dynamics Analysis
1:15 pm / 0214 Modeling and Validation of Hitch Loading Effects on Tractor Yaw Dynamics
1:30 pm / 0315 Co-simulation Environment for Vehicle-Powertrain-Tire On/Off Road Analysis
1:45 pm / 0416 Some Improvements on Soil-Tire Interaction Analysis by FE-DEM

Session 31 Soil Mechanics and Unique Applications of Terramechanics

- 2:30 pm / 0117 The Direct Assessment of Virgin Compression Line Parameters to Enable the Prediction of Soil Density Change Resulting from Agricultural Tires
2:45 pm / 0218 Optical Measurement of Soil Penetration Resistance and Automatic Determination of Rating Cone Index
3:00 pm / 0319 Numerical Analysis for Cone Penetration of Mesoscopic Soil Model
3:15 pm / 0420 Some Experimental Observations on Cone Penetration of Mesoscopic Soil Model
3:30 pm / 0521 Pseudo-Dynamic Vehicle-Terrain Interaction Tests: A Feasibility Study
3:45 pm / 0622 Study on Agitation Torque of Excavated Soils and Additives in the Soil-Recycling Machine
4:00 pm / 0723 Single Wheel Test to Elucidate the Mechanism of Vehicles Driving with Cyclic Steering on Dry Sand

Session 41 Terrain Impacts

- 2:30 pm / 0124 Dynamic Interaction of Soil and a Steel Roller for Landmine Neutralization
2:45 pm / 0225 Vegetation Recovery Rates after Military Training
3:00 pm / 0326 Influence of Turning Radius on Military Vehicle Induced Rut Formation
3:15 pm / 0427 Assessing Vehicle Impacts at Multiple Scales on US Army Installations, Example Using Fort Riley, Kansas
3:30 pm / 0528 Modeling Military Vehicle Terrain Impacts
3:45 pm / 0629 Desert Terrain Characterization of Landforms and Surface Cover within Vehicle Test Courses at U.S. Army Yuma Proving Ground, USA
4:00 pm / 0730 Modeling Desert Pavement Deterioration due to Heavy Vehicle Traffic

DAY THREE

Session 51 Terrain Roughness and Ride (Part 1 of 2)

- 10:10 am / 0131 The Development and Validation of a Terrain Severity Measurement System
10:25 am / 0232 Development of a 3-D Vehicle-Terrain Measurement System Part I: Equipment Setup
10:40 am / 0333 Development of a 3-D Vehicle-Terrain Measurement System Part II: Signal Processing and Validation
10:55 am / 0434 Methods of Simulation of Terrain Profiles
11:10 am / 0535 Modeling of Moguls on an Endurance Test Course
11:25 am / 0636 Comparison of In-Cylinder Pressure Measurement Based Engine Torque Data for a GTL Synthetic Diesel and Conventional Diesel Fuel

Session 52 Terrain Roughness and Ride (Part 2 of 2)

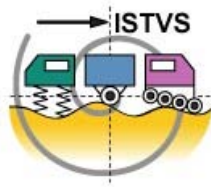
- 12:50 pm / 0137 Instrumenting an All-Terrain Vehicle for Off-Road Mobility Analysis
1:05 pm / 0238 Ride Comfort of Agricultural Tractors - Objective Measurements and Subjective Evaluation
1:20 pm / 0339 Determination of Rolling Resistance Components
1:35 pm / 0440 Design and Development of Valve Train System for Terrain Vehicle Engine Using GT-SUITE Software

Session 61 Robotics and Planetary Terramechanics (Part 1 of 2)

- 10:10 am / 0141 Estimation of Net Traction for Differential-Steered Wheeled Robots
10:25 am / 0242 Concept of Light Autonomous Machines for Dual Use
10:40 am / 0343 Collision Detection of Moving Polygonal Mobile Robots
10:55 am / 0444 Design and Mobility Evaluation of a Tracked Lunar Vehicle
11:10 am / 0545 Study on a Vane-telescopic Walking Wheel for Lunar Rover
11:25 am / 0646 Development of a Simple Shear Test Apparatus with Low Confining Pressure for a Regolith Simulant

Session 62 Robotics and Planetary Terramechanics (Part 2 of 2)

- 12:50 pm / 0147 Numerical Analysis of Sand Flow under Low Gravity Condition
1:05 pm / 0248 Research the Interaction between the Rigid Wheel and the Lunar Soil by DEM
1:20 pm / 0349 Flexible Wheels for Planetary Rovers? - A Comparative Investigation of Planetary Rover Traction Performance
1:35 pm / 0450 Vehicle-Terrain Interaction Investigations Supporting Planetary Rovers with Rigid and Flexible Wheels



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SYMPOSIUM I

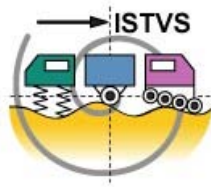
**SESSION 11: HIGH-FIDELITY GROUND PLATFORM AND
TERRAIN MECHANICS PROGRAMS**

Chairs: Wendell Gray and Qing Liu

Time: Sunday, June 24th (Day 2), **11:00 – 12:00 pm**

Room: Middle Gold Room, Westmark Hotel

- 11:00 am** 2007-11-0101
High-Fidelity Ground Platform and Terrain Mechanics Modeling for Military Applications Involving Vehicle Dynamics and Mobility Analysis
Alexander A. Reid, Sally Shoop, Randy Jones and Patrick Nunez
- 11:15 am** 2007-11-0202
A Vehicle Terrain Interface
Randolph A. Jones, George B. McKinley, Paul W. Richmond,
Daniel C. Creighton and Richard B. Ahlvin
- 11:30 am** 2007-11-0303
Verification and Validation of a Winter Driving Simulator
Michael Parker, Sally Shoop, Barry Coutermarsh, Kyle Wesson and Jesse Stanley
- 11:45 am** 2007-11-0404
Cross-Country Mobility on Various Snow Conditions for Validation of a Virtual Terrain
Rosa T. Affleck, Rae A. Melloh and Sally A. Shoop



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SYMPOSIUM I (continued)

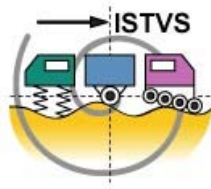
SESSION 12: SNOW

Chairs: Sally Shoop and Takashi Kataoka

Time: Sunday, June 24th (Day 2), **1:00 – 2:00 pm**

Room: Middle Gold Room, Westmark Hotel

- 1:00 pm** 2007-12-0105
Tire Slip-Angle Force Measurements on Winter Surfaces
Barry A. Coutermarsh and Sally A. Shoop
- 1:15 pm** 2007-12-0206
Over-Snow Rolling Resistance of Wheeled Vehicles
J.H. Lever and S.A. Shoop
- 1:30 pm** 2007-12-0307
Characterization of Snow Cover for Vehicle Mobility Using Ground Penetrating Radar – Experiments and Modeling
Jonah Lee and Wei Wang
- 1:45 pm** 2007-12-0408
Development of Tire-on-Stochastic Snow Models Using a Polynomial Chaos Approach
Lin Li, Corina Sandu, Jonah Lee and Qing Liu



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SYMPOSIUM II

SESSION 21: MODELING AND SIMULATION (Part 1 of 2)

Chairs: Hiroshi Nakashima and Corina Sandu

Time: Sunday, June 24th (Day 2), **11:00 – 12:00 pm**

Room: East Gold Room, Westmark Hotel

11:00 am 2007-21-0109

Semi – Analytical Semi Numerical Track Soil Model
Mustafa Alsaleh

11:15 am 2007-21-0210

Simulation Model of Rotary Tillage for Designing Rotary Blade - Deformation and Stress Analysis of Rotary Blade

Ayaka Sato, Takashi Kataoka, Hiroshi Okamoto and Shun-ichi Hata

11:30 am 2007-21-0311

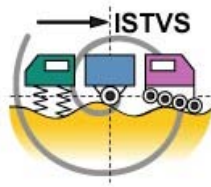
Parameter Estimation Method Using an Extended Kalman Filter

Emmanuel Blanchard, Adrian Sandu and Corina Sandu

11:45 am 2007-21-0412

A Holistic Simulation Approach to Assess Off-Road Mobility Performance

Guido Korlath



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SYMPOSIUM II (continued)

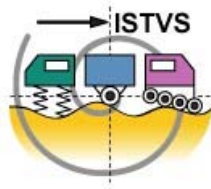
SESSION 22: MODELING AND SIMULATION (Part 2 of 2)

Chairs: Keiji Watanabe and Ahmed Soliman

Time: Sunday, June 24th (Day 2), **1:00 – 2:00 pm**

Room: East Gold Room, Westmark Hotel

- 1:00 pm** 2007-22-0113
A Multi-Body Model of an Agricultural Tractor for Driving Dynamics Analysis
Bojan Ferhadbegovic, Stefan Böttinger and Heinz-Dieter Kutzbach
- 1:15 pm** 2007-22-0214
Modeling and Validation of Hitch Loading Effects on Tractor Yaw Dynamics
David Bevly, Paul Pearson and Randy Raper
- 1:30 pm** 2007-22-0315
Co-simulation Environment for Vehicle-Powertrain-Tire On/Off Road Analysis
Ilinca Stanciulescu, Makarand Datar and Dan Negrut
- 1:45 pm** 2007-22-0416
Some Improvements on Soil-Tire Interaction Analysis by FE-DEM
Hiroshi Nakashima and Yuzuru Takatsu



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SYMPOSIUM III

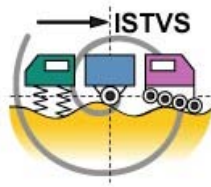
SESSION 31: SOIL MECHANICS AND UNIQUE APPLICATIONS OF TERRAMECHANICS

Chairs: Lal Kushwaha and Junya Yamakawa

Time: Sunday, June 24th (Day 2), **2:30 – 4:15 pm**

Room: Middle Gold Room, Westmark Hotel

- 2:30 pm** 2007-31-0117
The Direct Assessment of Virgin Compression Line Parameters to Enable the Prediction of Soil Density Change Resulting from Agricultural Tires
Dirk Ansorge and Richard J. Godwin
- 2:45 pm** 2007-31-0218
Optical Measurement of Soil Penetration Resistance and Automatic Determination of Rating Cone Index
Sergey Sandomirsky, Alan Anderson, Gajendra Savant and Michael Naumov
- 3:00 pm** 2007-31-0319
Numerical Analysis for Cone Penetration of Mesoscopic Soil Model
Hiroshi Nakashima, Takayuki Konishi and Yusuke Toki
- 3:15 pm** 2007-31-0420
Some Experimental Observations on Cone Penetration of Mesoscopic Soil Model
Hiroshi Nakashima, Yusuke Toki and Takayuki Konishi
- 3:30 pm** 2007-31-0521
Pseudo-Dynamic Vehicle-Terrain Interaction Tests: A Feasibility Study
Hidenori Murakami, Junya Yamakawa and Keiji Watanabe
- 3:45 pm** 2007-31-0622
Study on Agitation Torque of Excavated Soils and Additives in the Soil-Recycling Machine
Hiroshi Takahashi and Yasuo Mori
- 4:00 pm** 2007-31-0723
Single Wheel Test to Elucidate the Mechanism of Vehicles Driving with Cyclic Steering on Dry Sand
Junya Yamakawa, E. Natsagdorj, Keiji Watanabe and Hidenori Murakami



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SYMPOSIUM IV

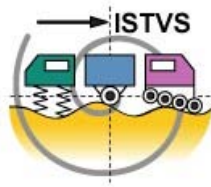
SESSION 41: TERRAIN IMPACTS

Chairs: Heidi Howard and Patricia Sullivan

Time: Sunday, June 24th (Day 2), **2:30 – 4:15 pm**

Room: East Gold Room, Westmark Hotel

- 2:30 pm** 2007-41-0124
Dynamic Interaction of Soil and a Steel Roller for Landmine Neutralization
Jude Liu and Radhey Lal Kushwaha
- 2:45 pm** 2007-41-0225
Vegetation Recovery Rates after Military Training
Heidi R. Howard, Paul D. Ayers and Katie J. Simmons
- 3:00 pm** 2007-41-0326
Influence of Turning Radius on Military Vehicle Induced Rut Formation
Kun Liu, Paul Ayers, Heidi Howard and Alan Anderson
- 3:15 pm** 2007-41-0427
Assessing Vehicle Impacts at Multiple Scales on US Army Installations, Example Using Fort Riley, Kansas
Alan B. Anderson, Paul D. Ayers, Guangxing Wang, George Z. Gertner, Heidi R. Howard, Shoufan Fang and Phil Woodford
- 3:30 pm** 2007-41-0528
Modeling Military Vehicle Terrain Impacts
Paul Ayers, Matt Rice, Qinghe Li, Heidi Howard and Alan Anderson
- 3:45 pm** 2007-41-0629
Desert Terrain Characterization of Landforms and Surface Cover within Vehicle Test Courses at U.S. Army Yuma Proving Ground, USA
Steven N. Bacon, Eric V. McDonald, Sophie E. Baker, Todd G. Caldwell and Graham Stullenbarger
- 4:00 pm** 2007-41-0730
Modeling Desert Pavement Deterioration due to Heavy Vehicle Traffic
Markus Berli, Todd G. Caldwell, Eric V. McDonald and Daniel A. Gilewitch



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SYMPOSIUM V

SESSION 51: TERRAIN ROUGHNESS AND RIDE (Part 1 of 2)

Chairs: Linda Spears and Rosa Affleck

Time: Monday, June 25th (Day 3), **10:10 – 11:40 am**

Room: Middle Gold Room, Westmark Hotel

10:10 am 2007-51-0131

The Development and Validation of a Terrain Severity Measurement System

Nicholas Dembski, Ahmed Soliman, Giorgio Rizzoni, Feilong Liu,
Grant Malmedahl and Lorenzo DiSaro

10:25 am 2007-51-0232

Development of a 3-D Vehicle-Terrain Measurement System Part I: Equipment Setup

Joshua V. Kern and John B. Ferris

10:40 am 2007-51-0333

Development of a 3-D Vehicle-Terrain Measurement System Part II: Signal Processing and Validation

Shannon M. Wagner, Joshua V. Kern, Wescott B. Israel and John B. Ferris

10:55 am 2007-51-0434

Methods of Simulation of Terrain Profiles

T. C. Sun, Milton Chaika, David Gorsich, Jinfeng Wei and Kussy Alyass

11:10 am 2007-51-0535

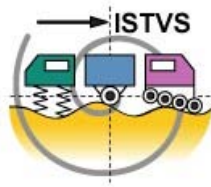
Modeling of Moguls on an Endurance Test Course

Mark J. Brudnak, David D. Gunter and Wesley Bylsma

11:25 am 2007-51-0636

Comparison of In-Cylinder Pressure Measurement Based Engine Torque Data for a GTL Synthetic Diesel and Conventional Diesel Fuel

C. S. Lin



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SYMPOSIUM V (continued)

SESSION 52: TERRAIN ROUGHNESS AND RIDE (Part 2 of 2)

Chairs: Awatif Hassan and Hidenori Murakami

Time: Monday, June 25th (Day 3), **12:50 – 1:50 pm**

Room: Middle Gold Room, Westmark Hotel

12:50 pm 2007-52-0137

Instrumenting an All-Terrain Vehicle for Off-Road Mobility Analysis

Kyle D. Wesson, Michael W. Parker, Sally A. Shoop,
Barry A. Coutermarsh and Jesse M. Stanley

1:05 pm 2007-52-0238

Ride Comfort of Agricultural Tractors - Objective Measurements and Subjective Evaluation

Jürgen Haberland, Stefan Böttinger and Christian Brinkmann

1:20 pm 2007-52-0339

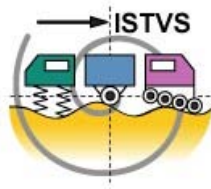
Determination of Rolling Resistance Components

Péter Kiss and Lajos Laib

1:35 pm 2007-52-0440

Design and Development of Valve Train System for Terrain Vehicle Engine Using GT-SUITE Software

A.K.M. Mohiuddin, Ataur Rahman and Asral Fikri



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SYMPOSIUM VI

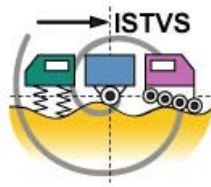
SESSION 61: ROBOTICS AND PLANETARY TERRAMECHANICS (Part 1 of 2)

Chairs: Kazuyoshi Tateyama and Lutz Richter

Time: Monday, June 25th (Day 3), **10:10 – 11:40 am**

Room: East Gold Room, Westmark Hotel

- 10:10 am** 2007-61-0141
Estimation of Net Traction for Differential-Steered Wheeled Robots
Laura Ray, Devin Brande and James H. Lever
- 10:25 am** 2007-61-0242
Concept of Light Autonomous Machines for Dual Use
Dinko Mikulic, Vladimir Koroman, Davorin Ambrus and Vjekoslav Majetic
- 10:40 am** 2007-61-0343
Collision Detection of Moving Polygonal Mobile Robots
Cheng-fu Chen
- 10:55 am** 2007-61-0444
Design and Mobility Evaluation of a Tracked Lunar Vehicle
Sachiko Wakabayashi, Hitoshi Sato and Shin-Ichiro Nishida
- 11:10 am** 2007-61-0545
Study on a Vane-telescopic Walking Wheel for Lunar Rover
Chen Baichao, Wang Rongben, Jin Lisheng, Guo Lie and Chen Zeyu
- 11:25 am** 2007-61-0646
Development of a Simple Shear Test Apparatus with Low Confining Pressure for a Regolith Simulant
Kazuyoshi Tateyama



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SYMPOSIUM VI (continued)

SESSION 62: ROBOTICS AND PLANETARY TERRAMECHANICS (Part 2 of 2)

Chairs: Jim Lever and Mustafa Alsaleh

Time: Monday, June 25th (Day 3), **12:50 – 1:50 pm**

Room: East Gold Room, Westmark Hotel

12:50 pm 2007-62-0147

Numerical Analysis of Sand Flow under Low Gravity Condition

Hiroshi Nakashima, Yasuyuki Shioji, Taizo Kobayashi and Shigeru Aoki

1:05 pm 2007-62-0248

Research the Interaction between the Rigid Wheel and the Lunar Soil by DEM

Li Jianqiao, Zou Meng, Jia Yang, Ma wenzhe, Ren Luquan and Li Yinwu

1:20 pm 2007-62-0349

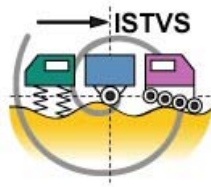
Flexible Wheels for Planetary Rovers? - A Comparative Investigation of Planetary Rover Traction Performance

L. Richter, S. Eppler, A. Grzesik, N. Schmitz and S. Weiss

1:35 pm 2007-62-0450

Vehicle-Terrain Interaction Investigations Supporting Planetary Rovers with Rigid and Flexible Wheels

L. Richter, S. Eppler, A. Grzesik, N. Schmitz and S. Weiss



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WRITTEN-ONLY PAPERS

- 2007-73-0152 **The Sustainability and Performance of Vehicle Dust Courses for Desert Military Testing** (Poster Session)
Todd G. Caldwell, Eric V. McDonald, Steven N. Bacon and Graham Stullenbarger
- 2007-73-0253 **Modeling and Simulation of In-Plane and Out-of-Plane Forces of Pneumatic Tires on Fresh Snow Based on the Finite Element Method** (Poster Session)
Jonah Lee and Qing Liu
- 2007-73-0354 **Utilizing Biomimetic Image Processing to Detect the Road Edge of Off-road Terrain**
Nancy Truong and William Agassounon
- 2007-73-0455 **The Effect of Relative Sinkage on Rolling Resistance for the Off-Road Vehicle**
H. M. El-Zomor, S. M. Shaaban, M. A. El-Nashar and I. M. Ibrahim
- 2007-73-0556 **Changes in Soil Pore Continuity Indices under Different Controlled Deformation Types**
M.R. Mosaddeghi, M.A. Hajabbasi and A. Hemmat
- 2007-73-0657 **Gas Transport Characteristics as Influenced by Concurrent Loading and Drying/Wetting Processes in Soils With Weak Structure**
M.R. Mosaddeghi, A. Hemmat and M.A. Hajabbasi
- 2007-73-0758 **Dynamic Control Research of Dual-motor Driven Electric Tracked Vehicle**
Zou Yuan, Zhang Cheng-ning and Wu Jing-bo
- 2007-73-0859 **Relationship between Soil Pre-compaction Stress and Shear Strength**
A. Hemmat, M. Tahmasebi, M. Vafaeian and M.R. Mosaddeghi
- 2007-73-0960 **Engine Misfire Diagnosis Based on Frequency Domain and Fuzzy Logic**
Zhenchun Xia, Guozhong Wang, Kazuo Kido and Hiroki Yamaura
- 2007-73-1061 **An Investigation into The Rollover Conditions of a Light Offroad Vehicle with Consideration of Soil-Tire Interaction**
Mohammad M. Davari, Hojat Noori, Mohammad Khodabakhshian, Abbas Hemmat and Morteza Sadeghi
- 2007-73-1162 **Determination of Snow Stress State Under Vehicle Loads**
Jaroslav Pytka, Jaroslav Dabrowski and Robert Rusinek
- 2007-73-1263 **Development of a Single Wheel Soilbin Testbed for Studying Wheel-Terrain Interaction**
Dang Zhaolong, Shen Zhenrong and Jia Yang