Technical Sessions

Technical session will be made in oral sessions. All presentation is oral and limited up to 20 minutes including about 5 minutes discussion.

Wednesday, June 17, 2009

RoomA (Conference room 301B)
10:50-12:10 A-1 Vehicle [Vibration/ Comfort]
Chair : Yasufumi Suzuki (Railway Technical Research Institute)

Masakazu Adachi (National Traffic Safety and Environment Laboratory)

358100 : PREVENTION OF CARBODY VIBRATION INDUCED BY IMBALANCED WHEELSETS WITH DISPLACEMENT-DEPENDENT RUBBER BUSH
/ Takahiro Tomioka, Tadao Takigami, Atsushi Fukuyama and Takashi Suzuki

354216 : STUDY ON DYNAMIC SAFETY OF MULTIPLE-AXLE HEAVY HAUL FREIGHT CAR ON CURVED TRACK
/ Huanyun Dai

354303 : IMPROVING THE COMFORT OF JR CENTRAL’S THIRD GENERATION SERIES 313 CAR
/ Susumu Yamada, Koichi Nishimura and Yusuke Tanaka

358129 : FUNDAMENTAL STUDY ON THE EFFECT OF HIGH FREQUENCY VIBRATION ON RIDE COMFORT
/ Chizuru Nakagawa, Ryohei Shimamune, Yufuko Abe, Erimitsu Suzuki and Ken Watanabe

RoomB (Conference room 301A)
10:50-12:10 B-1 Catenary
Chair : Ryu Takagi (Kogakuin University)

Hitoshi Tsunashima (Nihon University)

359829 : ELECTRICAL SLIDING WEAR OF COPPER-BASED CONTACT WIRE MATERIALS FOR ELECTRIC RAILWAY / Po Kee Wong, Chi Tat Kwok, Hau Chung Man and Fai Tsun Cheng

361909 : INVESTIGATION OF ARC BREAKING PHENOMENON OF THE CONTACT WIRE AT THE AIR SECTION IN D.C. RAILWAY SYSTEM / Hitoshi Hayashiya

362218 : RESULTS OF CURRENT COLLECTION TESTES OF HIGH-HEAT RADIATION CATENARY
/ Kentaro Nishi, Tadashi Yoshida, Takeshi Ishii, Ichiro Ideno, Takuya Kuraoka, Shunnichi Kasumi and Hiroyuki Hayashi

360429 : INTEGRATED SIMULATION BETWEEN FLEXIBLE BODY OF CATENARY AND ACTIVE CONTROL PANTOGRAPH FOR CONTACT FORCE VARIATION CONTROL
/ Mohd Azman Abdullah, Yohei Michitsui, Masao Nagai and Naoki Miyajima

RoomC (Conference room 302B)
10:50-11:50 C-1 Bogie [Curving performance]
Chair : T.X Mei (Salford University)

Katsuya Tanifuji (Niigata University)

362401 : ANALYSIS ON CURVING PERFORMANCE AND HUNTING STABILITY OF ACTIVE-BOGIE-STEERING-TRUCK WITH VARIOUS WHEEL TREADS
/ Yohei Michitsui, Akira Matsumoto, Yoshihiro Suda, Yasuhiro Sato, Hiroyuki Ohno, Masakazu Adachi, Masuhisa Tanimoto, Yasushi Kishimoto, Yoshi Sato and Takuya Nakai

356056 : A NEW RADIAL BOGIE WITH INDEPENDENTLY ROTATING WHEELS
/ Maoru Chi, Yiping Jiang, Weihua Zhang, Jing Zeng, Xuesong Jin and Minhao Zhu

352539 : AN EXPERIMENTAL STUDY OF ASSIST STEERING SYSTEM FOR RAILWAY VEHICLE
/ Shogo Kamoshita, Makoto Ishige, Yasuhiro Umehara and Katsuya Tanifuji
Room D (Conference room 302A)
10:50-12:10  D-1 Infrastructure 1
Chair : Zili Li (Delft University of Technology)
        Kazuhiro Koro (Niigata University)
360713 : VEHICLE RUNNING QUALITY DURING EARTHQUAKE ON RAILWAY VIADUCTS
         / Masamichi Sogabe, Kazuhiro Harada and Tsutomu Watanabe
354308 : TRAIN-RUNNING QUALITY DURING EARTHQUAKE AND ITS IMPROVEMENT FOR RAILWAY LONG SPAN
         BRIDGE / Masakazu Uno, Masamichi Sogabe, Tsutomu Watanabe and Makoto Kanamori
351491 : NUMERICAL CALCULATION METHOD FOR PREDICTION OF GROUND-BORNE VIBRATION NEAR
         SUBWAY TUNNEL / Masaru Furuta, Kiwamu Tsuno and Kazuhisa Abe
360411 : 3-D ANALYSIS OF THE INFLUENCE OF A PILE ON UNDERGROUND INDUCED VIBRATIONS USING THE
         BOUNDARY ELEMENT METHOD / Takahiro Saitoh and Sohichi Hirose

Room A (Conference room 301B)
13:00-14:00  A-2 Bogie [Running stability]
Chair : Akira Matsumoto (National Traffic Safety and Environment Laboratory)
         Yohei Michitsuji (Ibaraki University)
360766 : EXPERIMENT ON STABILIZATION OF HUNTING MOTION BY GYROSCOPIC DAMPER
         / Kentaro Nishimura, Hirokazu Okamoto, Shihpin Lin, Hiroshi Yabuno and Yoshihiro Suda
360397 : POTENTIAL OF ACTIVE-STEERING BOGIE FOR REDUCING LATERAL AXLE LOAD CAUSED AT WORN
         WELDED JOINTS OF OUTER RAIL IN CURVED TRACK / Tatsuya Iizuka, Katsuya Tanji and Hitoshi Soma
349928 : INTELLIGENT SENSING AND DATA PROCESSING – FROM BOGIE VIBRATIONS TO TRAIN SPEED
         / TX Mei and H Li

Room B (Conference room 301A)
13:00-14:20  B-2 Power
Chair : Takafumi Koseki (The University of Tokyo)
         Hitoshi Hayashiya (East Japan Railway Company)
362250 : DEVELOPMENT OF DC GROUND FAULT RELAY LESS AUXILIARY ENERGIZING SOURCE
         / Masami Hino and Akira Horiguchi
353926 : RAILWAY STATIC POWER CONDITIONER IN SECTIONING POST
         / Akihiro Koyanagi, Masahiko Okai and Shinzo Noguchi
362153 : RE-DESIGNING OF THE POWER FEEDING SYSTEMS FOR THE IMPROVEMENT OF DC ELECTRIC
         RAILWAYS / Ryo Takagi
360458 : A MICROSCOPIC OPERATING POINT ANALYSIS OF A NON-LINEAR MACROSCOPIC ADHESION CONTROL
         / Yutaka Tsukinokizawa, Takafumi Koseki, Hideto Negoro and Akihiro Murahashi

Room C (Conference room 302B)
13:00-14:20  C-2 Customer Environment and Service
Chair : Daisuke Yamaguchi (The University of Tokyo)
         Hidetaka Yoshida (National Defense Academy)
358168 : DEVELOPMENT OF TRAIN-DRAFT-COOLING POWER CONVERTERS FOR THE SHINKANSEN HIGH-SPEED
         TRAIN / Masayuki Ueno, Takafumi Fukushima and Kenji Sato
359356 : USING CURTAIN SENSORS TO SUPERVISE PASSENGERS ON PLATFORM
         / Tetsuya Harada, Masato Arai, Kazuhiro Miyazaki and Hiroki Arai
354337 : DEVELOPMENT OF THE SYSTEM WHICH PREVENTS MISTAKE IN OPERATION OF THE TRAIN DOOR
         / Hayato Nakamura and Junta Inoue
359031 : CUSTOMER SATISFACTION WITH TRAIN SCHEDULES
         / Akiko Murakoshi, Takeshi Kunimitsu and Ayano Saito
RoomD (Conference room 302A)
13:00-14:20 D-2 Infrastructure 2
Chair: Makoto Ishida (Railway Technical Research Institute)
Kazuhiro Koro (Niigata University)

352225: THE DEVELOPMENT OF MODELS FOR HIGH SPEED RAILWAY TRACK DYNAMICS
/ I. I. Ivanchenko and S. N. Shapovalov

353912: 3-D FE SIMULATION OF CYCLIC LOADING TESTES OF RAILWAY BALLASTED TRACK USING SUBLOADING SURFACE ELASTOPLASTIC MODEL / Kazuhiro Koro, Yuta Fukatsu and Kazuhiisa Abe

349068: AN INVESTIGATION ON THE DESIRED PROPERTIES OF FRICTION MODIFIERS FOR SLIPPERY RAILS / Zili Li and Oscar Arias-Cuevas

352559: PLANNING RAIL GRINDING USING CRACK GROWTH PREDICTIONS / Paul Hyde and David I Fletcher

RoomA (Conference room 301B)
14:40-16:00 A-3 Bogie [Tilting]
Chair: Hidehisa Yoshida (National Defense Academy)
Hitoshi Soma (Meijo University)

350081: DYNAMIC CURVING SIMULATION OF TILTING TRAIN / Jing Zeng and Ren Lu

355820: HIGH-SPEED RUNNING OF TILTING VEHICLE USING AIR SPRINGS ON CURVED SECTION OVERLAPPED WITH VERTICAL CURVE / Masahiro Omokawa, Mitsuura Saito, Katsuya Tanifuji, Hitoshi Soma and Takumi Ishii

356566: THE BODY INCLINING SYSTEM OF THE SERIES N700 SHINKANSENG / Yasuki Nakakura and Kosuke Hayakawa

354345: INTEGRATED TILT AND ACTIVE LATERAL SECONDARY SUSPENSION CONTROL / Ronghui Zhou, Argyrios Zolotas and Roger Goodall

RoomB (Conference room 301A)
14:40-15:40 B-3 Electric & Energy
Chair: Takeshi Mizuma (National Traffic Safety and Environment Laboratory)
Yohei Michitsuji (Ibaraki University)

354141: DEVELOPMENT OF SOFTWARE DEFINED TRAIN RADIO FOR CONVENTIONAL LINES / Takashi Mori, Noriyuki Washimi, Takashi Kuroda and Takayoshi Nobuhara

360090: RESEARCH ON THE DYNAMIC PERFORMANCE OF LIGHT RAIL VEHICLE WITH LINEAR INDUCTION MOTOR BOGIE / Pingbo Wu, Ren Luo, Yan Hu and Jing Zeng

347087: INNOVATIVE ENERGY SAVING SOLUTIONS FOR RAILWAY SYSTEM / Uwe Henning, Mads Bergendorff, Claudio Spalvieri, Laurent Nicod, Carsten Struve, Giuseppe Giannini and Roland Nolte

RoomC (Conference room 302B)
14:40-16:00 C-3 Safety [Derailment]
Chair: Hiroaki Nagura (Sumitomo Metal Industries, LTD)
Hitoshi Tsunashina (Nihon University)

353750: EXPERIMENTS ON DERAILMENT OF A HIGH SPEED TRAIN USING A SCALED TRAIN MODEL / Fumihiko Suzuki and Koichi Sasaki

358493: WHEEL RAIL LATERAL IMPACT AND DERAILMENT SAFETY ASSESSMENT / Qinghua Guan and Jing Zeng

360497: STUDY ON DETECTION OF SIGNS OF WHEELCLIMB DERAILMENT FOR RAILWAY VEHICLES / Chiehjen Hung, Yoshihiro Suda, Wenjun Wang, Takayoshi Yamashita, Masato Morikawa, Takashi Kunimi and Tetsuya Kawanabe

362681: DYNAMICS SIMULATION OF SHINKANSENG CARS IN SESMIC MOTION DURING THE NIGATAKEN CHUETSU EARTHQUAKE / Takefumi Miyamoto, Masamichi Sogabe and Yoshitaka Murono
RoomD (Conference room 302A)
14:40-16:00 D-3 Boundary Problem
Chair: Yoshiaki Terumichi (Sophia University)

Kiwamu Tsuno (Railway Technical Research Institute)

347384 : RESEARCH ON COUPLING INTERACTION BETWEEN HIGH-SPEED TRAIN AND AIR
/ Haiquan Bi and Weihua Zhang

353967 : A BASIC STUDY ON COUNTERMEASURE AGAINST UNSTEADY AERODYNAMIC FORCE ACTING ON TRAIN RUNNING INSIDE TUNNEL USING AIR BLOWING / Masahiro Suzuki, Koji Nakade and Kenji Okada

360769 : MEASUREMENT OF AIR VELOCITY AND PRESSURE DISTRIBUTIONS AROUND HIGH-SPEED TRAINS ON BOARD AND ON THE GROUND / Yutaka Sakuma, Masahiro Suzuki, Atsushi Ido and Hiroshi Kaiyama

356221 : PREDICTION FOR WHEEL/RAIL IMPACT NOISE IN CHINESE SPEED-RAISED RAILWAY
/ Yang Xinwen, Zhai Wanming and Yang Jizhong

RoomA (Conference room 301B)
16:20-17:40 A-4 Safety [Vehicle]
Chair: Takahiro Saitoh (University of Fukui)

Takefumi Miyamoto (Railway Technical Research Institute)

360682 : RESEARCH ON CRASHWORTHINESS OF TWO-LAYER THIN-WALLED STRUCTURES
/ XIAO Shoune, Yang Guangwu, SHAN Qiuy and CHEN Hanzhen

354224 : MECHANISM OF CAR BODY CHATTER ANALYSIS ON HEAVY HAUL FREIGHT CAR
/ Hao Gao and Huan-yun Dai

360545 : ANALYTICAL STUDY OF THE MECHANISM OF WHEEL LOAD VARIATION ON A TWO-AXLE BOGIE
/ Masahito Adachi, Yoshiaki Terumichi, Satoshi Hara, Yoshihiro Suda and Kiyoshi Sogabe

359753 : DEVELOPMENT OF PLATFORM DETECTION SYSTEM USING ULTRASONIC SENSOR
/ Tomoki Wada, Keisuke Ishii, Katsuyuki Muraki and Shigeo Matsumoto

RoomB (Conference room 301A)
16:20-17:40 B-4 Safety [Signal]
Chair: Uwe Henning (Siemens AG)

Hideo Nakamura (Nikon University)

354567 : THE ARCHITECTURE OF GNSS LOCAL ELEMENTS IN RAILWAY SAFETY RELATED APPLICATIONS
/ Tauer Jan and Bazant Lubor

351291 : GALILEO SAFETY-OF-LIFE SERVICE UTILIZATION FOR RAILWAY NON-SAFETY AND SAFETY CRITICAL APPLICATIONS / Hynek Mocek, Aleš Filip, Václav Maixner and Lubor Bažant

354018 : DEVELOPMENT OF A TRAIN APPROACH ALARM SYSTEM WITH GPS-LINKED MOBILE PHONES
/ Atsushi Mizoguchi and Junta Inoue

360188 : RISK MANAGEMENT ON RAILWAY SYSTEM / Ya-dong Zhang, Jin Guo, Yuan-zhe Zhao and Nv-e Xiao

RoomC (Conference room 302B)
16:20-17:40 C-4 Safety [Contact/ Wear]
Chair: Hiroyuki Sugiyama (Tokyo University of Science)

Masakazu Adachi (National Traffic Safety and Environment Laboratory)

352894 : STUDY ON ACTUAL WHEEL/RAIL CONTACT GEOMETRY FOR TIGHT CURVING : COMPARISON BETWEEN EXPERIMENTS AND CALCULATIONS / Yoshihiro Suda, Minoru Nishina, Hisanao Komine, Shihpin Lin, Takashi Tsuji, Takefumi Miyamoto, Hisayo Doi, Hua Chen, Hiroyuki Sugiyama and Yoshimitsu Tanii

347101 : PROPAGATION OF SUB-SURFACE CRACKS IN RAILWAY WHEELS FOR WEAR-INDUCED CONFORMAL CONTACTS / Mario Guagliamo, Massimiliano Pau and Bruno Leban

357828 : EFFECT OF TRAFFIC ON CRACK INITIATION IN RAILS
/ Gordana Vasić, Francis J. Franklin, David I. Fletcher and Ajay Kapoor

348160 : ANALYSIS OF CAUSES TO ABNORMAL WEAR OF WHEEL FLANGES FOR QINGHAI-TIBET LINE PASSENGER CARS AND MEASURES FOR IMPROVEMENT / Hongyou Liu and Dalian Yu
Thursday, June 18, 2009

RoomA (Conference room 301B)
10:30-11:50 A-5 Vehicle [Active suspension]

Chair: Yoshihiro Suda (The University of Tokyo)
       Hong Lun Zhao (Tongji University)
       Osamu Goto, Shoji Negoro and Satoshi Koizumi

358174: THE DEVELOPMENT OF AN ACTIVE SUSPENSION SYSTEM WITH EMA FOR RAILWAY VEHICLES
       / Osamu Goto, Shoji Negoro and Satoshi Koizumi

353620: RIDE COMFORT IMPROVEMENTS IN A HIGH-SPEED TRAIN WITH ACTIVE SECONDARY SUSPENSION
       / Anneli M. Ovnäs, Sebastian Stichel and Rickard Persson

360841: ACTIVE CONTROL OF AIRSPRING SECONDARY SUSPENSION TO IMPROVE RIDE COMFORT IN
       PRESENCE OF RANDOM TRACK IRREGULARITY / Stefano Alfi, Stefano Bruni and Alan Facchinetti

362151: ACTIVE SECONDARY SUSPENSIONS FOR RAILWAYS USING INTER-VEHICLE ACTUATORS
       / Roger Goodall and Guy Speedie

RoomB (Conference room 301A)
10:30-11:30 B-5 Traffic Planning

Chair: Francis James Franklin (Newcastle university)
       Hiroyuki Ohno (National Traffic Safety and Environment Laboratory)

360714: TRAIN TIMETABLING ALGORITHM BASED ON PASSENGERS’ DEMANDS
       / Taketoshi Kunimitsu, Chikara Hirai and Norio Tomii

362148: BICRITERIA FREIGHT TRAINS OPTIMAL DISPATCHING / Boris Davydov and Vadim Hopkalo

360594: PASSENGER FLOW ANALYSIS FOR TRAIN RESCHEDULING AND ITS EVALUATION
       / Shunichi Tanaka, Kazumasa Kumazawa and Takaumi Koseki

RoomC (Conference room 302B)
10:30-11:30 C-5 Environment & Energy 1

Chair: Kazuhisa Abe (Niigata University)
       Hideo Nakamura (Nihon University)

360802: DEVELOPMENT OF A SYSTEM TO REDUCE INTERIOR NOISE OF RAILWAY VEHICLE
       / Katsuya Yamamoto, Nobuo Tanaka, and Mineyuki Asahina

359911: REDUCTION OF PANTOGRAPH NOISE OF HIGH-SPEED TRAINS / Takeshi Kurita, Masaaki Hara,
       Haruo Yamada, Yuusuke Wakabayashi, Fumio Mizushima, Hitoshi Satoh and Toshio Shikama

358164: ENERGY-SAVING TECHNOLOGIES OF THE SERIES N700 / Hajime Ito, Shuji Nakamura and Tomoyuki Minami

RoomD (Conference room 302A)
10:30-11:30 D-5 MAGLEV 1

Chair: Yoshiyasu Hagiwara (Central Japan Railway Company)
       Hidehisa Yoshida (National Defense Academy)

360679: MECHANICAL VIBRATION EXPERIMENT OF SUPERCONDUCTING MAGNET
       / Koichiro Waki, Hiroshi Seino and Ken Nagashima

343991: HIGHER SPEED TRIAL OF HSST / Minoru Morita and Hidehiro Nagano

349906: PROSPECTS AND LIMITATIONS OF HIGH SPEED TRANSPORT : THE MAGLEV CASE / Johannes Kluespies
RoomA (Conference room 301B)  
10:10-11:30 A-6 Vehicle [Vehicle design]  
Chair: Takahiro Tomioka (Railway Technical Research Institute)  
Yoshimoto Watanabe (Nippon Sharyo, Ltd.)  
352646: STATIC TEST AND VALIDATION RESULTS FOR CTRL-DS VEHICLE FOR UK  
   / Masataka Hidai, Mikio Iogawa, Takao Watanabe and Kenjiro Goda  
354324: INTRODUCTION OF A RAILWAY DIESEL CAR TYPE RAIL TRANSPORT CAR  
   / Masayuki Ohara, Sadayuki Kohori, Hiroshi Shinmura and Junji Tsutsumi  
360579: ANALYSIS ON HIGH FREQUENCY VIBRATION CHARACTERISTICS OF THE NEXT GENERATION SHINKANSEN SEATS / Shigeki Fukui, Yuta Ichikura, Masao Nagai, Yohei Michitsuji, Seiichi Watanabe, Katsufumi Hashimoto, Yoshihiko Yokoyama, Takahiro Tomioka and Ryohei Shimamune

RoomB (Conference room 301A)  
10:10-11:10 B-6 Signal 1  
Chair: Yuji Hirao (Nagaoka University of Tech.)  
Takafumi Koseki (The University of Tokyo)  
360785: EVALUATION OF CDMA-QAM RAIL TRANSMISSION DEVICE FOR RAILWAY SIGNALING  
   / Hiroshi Mochizuki, Sei Takahashi, Hideo Nakamura, Satoshi Nishida and Ryo Ishikawa  
360138: MODELING RAILWAY SIGNALLING CONTROL SOFTWARE WITH OBJECT-BASED ARCHITECTURE  
   / Xinzhong Hei, Weigang Ma, Lei Wang, Sei Takahashi and Hideo Nakamura  
360176: THE EXTENDED PETRI MODEL FOR THE DISPATCHING SYSTEM OF THE INDUSTRIAL RAILWAY  
   / Jin Guo and Pei-yan Yun

RoomC (Conference room 302B)  
10:10-11:10 C-6 Condition Monitoring 1  
Chair: Roger Goodall (Loughborough University)  
Hitoshi Tsunashima (Nihon University)  
356776: CONDITION MONITORING FOR SHINKANSEN BOGIES BASED ON VIBRATION ANALYSIS  
   / Takuya Oba, Koichi Yamada, Hitoshi Soma and Katsuya Tanifuji  
355939: STATE ESTIMATION OF RAILWAY VEHICLES USING MULTIPLE MODEL APPROACH  
   / Hirotaka Mori, Hitoshi Tsunashima and Yoshitaka Marumo  
354086: DEVELOPMENT OF AUTOMATIC WHEEL CONDITIONS MONITORING SYSTEM  
   / Nobuaki Itonaga and Hidemi Yano

RoomD (Conference room 302A)  
10:10-11:30 D-6 Environment & Energy 2  
Chair: Chang Hui (RIST)  
Yoshiaki Terumichi (Sophia University)  
347823: ESTIMATION OF STRUCTURE-BORNE NOISE REDUCTION EFFECT OF STEEL RAILWAY BRIDGE EQUIPPED WITH FLOATING LADDER TRACK AND FLOATING REINFORCED-CONCRETE DECK  
   / Tsutomu Watanabe, Masamichi Sogabe, Kiyoshi Asanuma and Hajime Wakui  
359904: DEVELOPMENT OF TRANSMITTING BOUNDARY FOR PERIODICALLY SUPPORTED RAILS  
   / Kazuhiro Abe, Shingo Fujishita and Kazuhiro Koro  
360432: GRASP THE ACTUAL CONDITIONS OF REGENERATIVE BRAKE AND OPTIMIZE THE PARTIAL CANCELLATION PATTERN OF REGENERATIVE CONTROL / Norihiro Kani and Takayoshi Yamashita  
360659: DESIGN OF A RUN-CURVE FOR ENERGY SAVING OPERATION IN A MODERN DC-ELECTRIFICATION-EFFICIENCY ASSUMING PERFECT REGENERATIVE BRAKING / Takashi Noda and Takafumi Koseki

International Symposium on Speed-up, Safety and Service Technology for Railway and Maglev Systems 2009 (STECH'09) 2009.6.16-19 Niigata JAPAN  
Transportation and Logistics Division  
Japan Society of Mechanical Engineers (JSME)
RoomA (Conference room 301B)
11:40-13:00 A-7 Bogie [Running safety]
Chair: Jing Zeng (Southwest Jiaotong University)
Yohshi Michitsuji (Ibaraki University)

362140: DEVELOPMENT OF SUBWAY BOGIE TO REDUCE WHEEL LOAD VARIATION
/ Tomohisa Ogino, Makoto Shimizu, Yusuke Shimomura, Yoshiyuki Shimokawa, Yoshi Sato and Takuji Nakai

362142: TOKYO METRO NEWLY BOGIE TRUCK DESIGN
/ Yusuke Shimomura, Tomohisa Ogino, Makoto Shimizu, Yoshiyuki Shimokawa, Yoshi Sato and Takuji Nakai

359473: STUDY ON RUNNING SAFETY WITH GAUGE WIDENING
/ Masakazu Adachi, Yasuhiro Sato, Hiroyuki Ohno, Akira Matsumoto, Atsushi Iwamoto and Minoru Kobayashi

354363: ACCELERATED LIFE TEST DESIGN FOR VEHICLE BOGIE FRAME BY SIMULATION METHODS
/ Jianbin Wang and Pingbo Wu

RoomB (Conference room 301A)
11:40-12:40 B-7 Signal 2
Chair: Xinhong Hei (Xi'an University of Technology)
Hiroshi Mochizuki (Nihon University)

358170: THE NEW ATC SYSTEM OF THE TOKAIDO SHINKANSEN
/ Masayuki Ueno, Hidemitsu Tanaka, Yoshiya Watanabe and Toshiaki Takami

353029: IMPROVEMENT OF CONFIGURATION DATA RELIABILITY BY ERROR-PROOFING IN RAILWAY SIGNALLING SYSTEMS
/ Toshiyuki Shimazoe, Hideto Ishikawa, Yoshiyuki Hata, Tsuyoshi Takei, Haruhiko Ezaki and Kenji Tanaka

360216: RESEARCH ON SAFETY-RELATED COMMUNICATION OF RAILWAY AUTOMATIC BLOCK BETWEEN RAILWAY STATIONS SYSTEM / Pei-yan Yun, Jin Guo and Xiao-dong Wang

RoomC (Conference room 302B)
11:40-13:00 C-7 Condition Monitoring 2
Chair: Yoshiaki Terumichi (Sophia University)
Yoshitaka Marumo (Nihon University)

355005: INERTIAL MEASUREMENT PROCESSING TECHNIQUES FOR TRACK CONDITION MONITORING ON SHINKANSEN COMMERCIAL TRAINS / Yasukuni Naganuma, Mikihito Kobayashi and Takayuki Okamura

355532: ESTIMATION OF GAUGE IRREGULARITY USING INDEPENDENT COMPONENT ANALYSIS
/ Hiroki Nakamura and Kimihiko Nakano

345303: CONDITION MONITORING OF RAILWAY TRACK USING IN-SERVICE VEHICLE
/ Hitoshi Tsunashima, Takashi Kojima, Yoshitaka Marumo, Akira Matsumoto and Takeshi Mizuma

361235: DRIVER’S POSTURE MONITORING BY INFRARED LASER RANGING SENSOR
/ Jun Yoshinaga and Takeshi Mizuma

RoomD (Conference room 302A)
11:40-12:40 D-7 MAGLEV 2
Chair: Erimitsu Suzuki (Railway Technical Research Institute)
Shuichiro Ota (Central Japan Railway Company)

347118: EMS SYSTEMS : OPTIMISED SENSOR CONFIGURATIONS FOR CONTROL AND SENSOR FAULT TOLERANCE / Konstantinos Michail, Argyrios Zolotas and Roger Goodall

353183: APPLICATION OF SEGMENTAL PRECAST DECKS TO THE MAGLEV GUIDEWAY GIRDER SYSTEM FOR CURVED ROUTES IN URBAN AREA / Byeong Moo Jin, In G. Kim, Y. Lee, H. W. Ma, H. C. Oh and Young J. Kim

360262: STRESS EVALUATION OF THE PLG GROUND COIL WITH GFRP FASTENING DEVICES
/ Hitoshi Matsue, Masayuki Aiba and Masao Suzuki
Room A (Conference room 301B)
13:40-15:00 A-8 Vehicle [Aerodynamics]
Chair: Katsuya Tanifuji (Niigata University)
Yohi Michitsuji (Ibaraki University)

360104: DEVELOPMENT OF A MODEL RUNNING FACILITY FOR STUDY ON UNDER-FLOOR FLOW
Atsushi Ido and Shinya Yoshioka

341259: NUMERICAL SIMULATION OF LATERAL VIRATION OF HIGH-SPEED TRAIN INDUCED BY
AERODYNAMIC FORCES IN TUNNELS / Ji Zhong Yang, Wanning Zhai, Haiquan Bi and Xinwen Yang

354146: FULL-SCALE EXPERIMENT ON THE BEHAVIOR OF A RAILWAY VEHICLE BEING SUBJECTED TO
LATERAL FORCE / Yu Hibino, Takayuki Shimomura and Katsuya Tanifuji

360303: EFFECT OF CROSSWIND ON HIGH SPEED RAILWAY VEHICLE RUNNING SAFETY
Xinbiao Xiao, Xuesong Jin, Zefeng Wen and Minhao Zhu

Room B (Conference room 301A)
13:40-15:00 B-8 Human Factor
Chair: Hisato Ohno (Railway Technical Research Institute)
Hidehisa Yoshida (National Defense Academy)

360225: DEVELOPMENT AND UTILIZATION OF EDUCATIONAL MATERIALS FOR HUMAN FACTORS
Tomoko Horishita

360580: ACCURACY OF SUBJECTIVE RISK OF OVERRUN BY TRAIN DRIVERS AND ITS AGE DIFFERENCE
Masayoshi Shigemori

356428: ANALYSIS OF BRAKING BEHAVIOR FOR TRAIN DRIVER’S TO DETECT UNUSUAL DRIVING
Yasushi Hasegawa, Yoshitaka Marumo, Hitoshi Tsunashima and Takashi Kojima

360736: SENSORY EVALUATION OF RIDE ON RAILWAY VEHICLE USING MOTION SIMULATOR
Daisuke Yamaguchi, Shoichiro Takehara, Koichi Sasaki, Yoshihiro Suda and Takaaki Koga

Room C (Conference room 302B)
13:40-14:40 C-8 Condition Monitoring 3
Chair: Yoshiaki Terumichi (Sophia University)
Kimihiko Nakano (The University of Tokyo)

356924: THE FATIGUE LIFE AND RELIABILITY PREDICTION OF HIGH-SPEED TRAIN BODY STRUCTURE BASED
ON ACCELERATION EXCITING / Honglan Zhao, Shefeng Wang and Zhenhong Shen

360469: IDENTIFICATION OF VIBRATION CHARACTERISTICS OF OPEN DECK BRIDGES USING THE PASSING
TRAIN LOADS / Kodai Matsuoka, Kiyoaki Kaito, Koichi Sugisaki and Tsutomu Watanabe

360369: A SIMPLE IDENTIFICATION METHOD FOR MEMBER VIBRATION PROPERTIES OF RAILWAY VIADUCTS
Kazuhiro Harada, Tsutomu Watanabe, Masamichi Sogabe, Yukihito Tanimura, Kiyoaki Kaito and Kouichi Sugisaki

Room D (Conference room 302A)
13:40-15:00 D-8 MAGLEV 3
Chair: Masao Nagai (Tokyo University of Agriculture & Technology)
Byeong Moo Jin (Daewoo E & C, Co. Ltd)

360311: STUDY OF SUPERCONDUCTING MAGNETIC BEARING USING LIQUID NITROGEN COOLED
HTS-BULK-SUPERCONDUCTOR APPLICABLE TO FLYWHEEL ENERGY-STORAGE SYSTEM FOR RAILWAY
Hiroshi Seino and Ken Nagashima

360011: DEVELOPMENT OF SUPERCONDUCTING MAGNETS WITH CURRENT LEADS WITHOUT GAS COOLING
Masafumi Ogata, Ken Nagashima, Yoshiaki Miyazaki and Masaru Iwamatsu

360308: PRELIMINARY STUDY OF HIGH-TEMPERATURE SUPERCONDUCTING MAGNETS USING 2G WIRES FOR
MAGLEV TRAIN / Ken Nagashima, Masafumi Ogata, Yoshihi Miyazaki, Takashi Sasakawa and Masaru Iwamatsu

355984: A STUDY OF MAGLEV VEHICLE DYNAMICS USING A REduced-SCALE VEHICLE MODEL EXPERIMENT
APPARATUS / Erimitsu Suzuki, Ken Watanabe, Hironori Hoshino, Takenori Yonezu and Masao Nagai

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