11:50-12:30 Break

12:30-13:10 Opening

13:10-14:00 Plenary Session 1: Dr.-Ing. habil. Valentin Ivanov, “Challenges of Integrated Vehicle Chassis Control: Some Findings of The European Project EVE”

14:00-15:00 Plenary Session 2: Prof. Dr. Georg Schitter, “System Integration and Control of Mechatronic Imaging Systems”

15:00-15:30 Break

Session Topic: 582 What is the Key to Future Haptics?

TT2: New Actuation Technology for Mechatronic Systems

TT3: Automotive Mobile System 2

TT4: Actuation and Control

88: New Actuation Technology for Mechatronic Systems

TT1: Automotive Mobile System 1

TT2: Measurement and Diagnosis

Title

Prof. Yusuke Araya

Prof. Tetsuya Minehata

Prof. Kazuaki Ohno

Title

Prof. Tomoyuki Shimono

Prof. Yasutaka Fujimoto

Prof. Yosuke Asano

Title

Prof. Toshiaki Tsuji

Prof. Masayuki Hara

Prof. Satoshi Suzuki

Title

Takaya Sano (Chuo University)

Yuma Itokawa (Mie University)

Prof. Valentin Ivanov

Title

TT1-1

TT2-1

TT3-1

TT4-1

Title

Analysis of The Cross-Coupled Two-Degree-of-Freedom Motor with Coll Back Talk

Proposal of Load-side Encoder-Based Slip Ratio Estimation Method for 4-Wheel by Separation of Wheel Motor with Reduction Gear

Design Analysis for A Novel Wireless Remote Actuator

Speed Control of Tilting Down Consideration Periodic Reaction Torque of Electric Tilt

Fundamental Study of Four Wheel Steering System without Wheel Gear Actuator for Four Wheel Driving Electric Vehicle

Title

Tsunio Hatti (Tokai University)

Tomato Ikoma (The University of Tokyo)

Masato Kiyama (Meisei University)

Masashi Iwasa (Tokyo Institute of Technology)

Kanao Hirohiko (Tokai University)

Title

Basic Study on Range Extension Autonomous Driving Considering Uncertainty of Signal Information

Experimental Verification of Localization by Optimization Considering Occupancy

Detection of Vibration for In-wheel Motor with Secondary-side Insulation

Detection of Road Direction Using FingerVision for Tactile Behaviors, Haptic Feedback and Slip Ratio Estimation

An Attitude Control Considering Skid-Steer Phenomena for Four-Wheel Driving Vehicle

Title

Randoh Ogawa (The University of Tokyo)

Toshio Manaka (Tokai University)

Kensei Numagishi (The University of Tokyo)

Junko Naka (Tokyo Institute of Technology)

Ritsuko Hirohiko (Tokai University)

Session Topic: 582 What is the Key to Future Haptics?

TT2: New Actuation Technology for Mechatronic Systems

TT3: Automotive Mobile System 2

TT4: Actuation and Control

Title

Prof. Yusuke Araya

Prof. Tomoyuki Shimono

Prof. Kiyoshi Ohishi

Prof. Chowarit Mitsantisuk

Prof. Toshimasa Miyazaki

Prof. Michael Ruderman

Title

Functional Haptic Actuators for Human-Aided Applications

Force Tension/Torque Control for Vibrotactile Stimulation of Load-side Acceleration and its Internal Stability

How Can We Apply Our Haptic Technologies to Scientific Studies?

FingerVision for Tactile Behaviors, Manipulation, and Haptic Feedback Transportation

Title

Takahiro Shinzen (Tokai University)

Takayuki Nishino (Nagoya University of Technology)

Masahiro Hata (Shibaura Institute of Technology)

Akihito Yamaguchi (Nagoya University of Technology)

Title

Induction Motor and Force Control System for Human-Touching Vehicle

Haptic Control and Force Feedback for Virtual Reality Environment

Mechanical-Buckling-based Haptic Interface for Vehicle Fatigue Simulation

A Synchronization of Motion Generation Method in the Simple Configuration of a Wheel-Legged Mobile Robot

An Attitude Control Considering Skid-Steer Phenomena for Four-Wheel Steering Vehicle

Fundamental Study of Four Wheel Steering System without Wheel Gear Actuator for Four Wheel Driving Electric Vehicle

Title

Hiroto Fujita (The University of Tokyo)

Kazuhiro Ishii (Nagoya University of Technology)

Atsushi Tamaguchi (Nagoya University of Technology)

Kenta Nagano (Yokohama National University)

Title

An ANN for Estimation of Power Consumption of EV/NEV for Real-Time Battery Diagnosis

Innovative Design and Analysis of Multi-axis Encoder for Autonomous Mobile Robots

Analysis of The Cross-Coupled Two-Degree-of-Freedom Motor with Coll Back Talk

A Simplification of Motion Generation Method in the Simple Configuration of a Wheel-Legged Mobile Robot

An Attitude Control Considering Skid-Steer Phenomena for Four-Wheel Steering Vehicle

Title

Masayuki Hara (Saitama University)

Masahiro Hata (Shibaura Institute of Technology)

Kenta Nagano (Yokohama National University)

Kenta Nagano (Yokohama National University)

Title

Development of an Angle Measurement System Using Monocular Camera and Multi-Patterns

An ANN for Estimation of Power Consumption of EV/NEV for Real-Time Battery Diagnosis

An ANN for Estimation of Power Consumption of EV/NEV for Real-Time Battery Diagnosis

An Attitude Control Considering Skid-Steer Phenomena for Four-Wheel Steering Vehicle

An Attitude Control Considering Skid-Steer Phenomena for Four-Wheel Steering Vehicle

Title

Junya Tsunoda (Saitama University)

Takao Satsuk (Osaka University)

Takao Satsuk (Osaka University)

Katsuhiko Hirohiko (Tokai University)

Katsuhiko Hirohiko (Tokai University)