

Registration / Help Desk Lobby or Foyer
From 2010-07-15 08:00:00 To 2010-07-15 18:00:00

Session Chair:

Coffee Foyer
From 2010-07-15 08:40:00 To 2010-07-15 10:00:00

Session Chair:

Opening Ceremony Hai Tian Hall
From 2010-07-15 09:00:00 To 2010-07-15 09:20:00

Session Chair:

Keynote Speech Hai Tian Hall
From 2010-07-15 09:20:00 To 2010-07-15 12:10:00

Session Chair:

Lunch West Cafeteria
From 2010-07-15 12:10:00 To 2010-07-15 13:30:00

Session Chair:

Active and Passive Safety Systems I Bo Hai Room
From 2010-07-15 13:30:00 To 2010-07-15 15:10:00

Session Chair: Wei-Song Lin

National Taiwan University, Taiwan

Session Co-Chair: Xiaohui Hu

Indiana University-Purdue University Indianapolis, USA

[Active Safety Diagnosis of Brake-by-Wire Systems with Unscented Kalman Filter](#)

Wei-song Lin; Tao-en Tang

[Adaptive Control of Suspension Based on Fuzzy Logic Gain Scheduling](#)

Gui-hong Xu; Tao Sun

[Modeling Drowsy Driving Behaviors](#)

Xiaohui Hu; Russell Eberhart; Brian Foresman

[Nonlinear Vehicle Dynamics Control for EV with 4 in-wheel Motors](#)

Lu Xiong; Zhuoping Yu; Yufeng Meng

[Research on Design Method Regarding Pedestrian Head Protection](#)

Bin Wu; Xichan Zhu; Dazhi Wang; Zhixiong Ma; Junyong Liu

Active and Passive Safety Systems II Bo Hai Room
From 2010-07-15 15:50:00 To 2010-07-15 17:30:00

Session Chair: Zhuoping Yu

Tongji University, China

Session Co-Chair: Li Li

Tsinghua University, China

[Robustness Analysis of the FlexRay System through Fault Tree Analysis](#)

Kuen-long Leu; Yung-yuan Chen; Chin-long Wey; Jwu-e Chen

[The Anti-skidding Control for Hybrid-braking System](#)

Zhaoliang Zhang; Lu Xiong; Zhuoping Yu

[The Research of Reversible Pop-up Hood for Pedestrian Protection](#)

Dang Xu; Xichan Zhu; Qiang Miao; Zhixiong Ma; Bin Wu

[Calibration of MITSIM and IDM Car-Following Model Based on NGSIM Trajectory Datasets](#)

Chenyi Chen; Li Li; Jianming Hu; Chenyao Geng

Driver Assistance Driving Systems Bo Hai Room
From 2010-07-16 09:00:00 To 2010-07-16 10:00:00

Session Chair: Keqiang Li

Tsinghua University, China

Session Co-Chair: Xuejun Liu

TASS, China

Development Tools for Active Safety Systems: PreScan and VeHIL

F. Hendriks; M. Tideman; R. Peldes; R. Bours; Xuejun Liu

Pneumatic electronic braking assistance system using high-speed valves

Jianqiang Wang; Bo Yang; Shengbo Li; Dezhao Zhang; Keqiang Li

Navigation and Localization Systems

Bo Hai Room
From 2010-07-16 10:40:00 To 2010-07-16 12:00:00

Session Chair: Hong-Xing Chang

Institute of Automation, Chinese Academy of Sciences, China

Session Co-Chair: Lin Zhang

Hebei Polytechnic University, China

EXTENDING LAND NAVIGATION APPLICATIONS TO SUPPORT OFF ROAD BASED ON ELEVATION AND LAND CHARACTERISTICS

Gamal Selim; Ahmed Abdel sabour

Travel Routes Estimation in Transportation Systems Modeled by Petri Nets

Yizhi Qu; Lingxi Li; Yaobin Chen; Yaping Dai; Yan Liu

Vision-Aided UAV Navigation Using GIS Data

Duo-yu Gu; Cheng-fei Zhu; Jiang Guo; Shu-xiao Li; Hong-xing Chang

Vehicular Sensor and Sensor Networks

Bo Hai Room
From 2010-07-16 13:30:00 To 2010-07-16 15:10:00

Session Chair: Yunzhi Huang

School of Electric Engineering and Automation, Hefei University of Technology, China

Session Co-Chair: Lingxi Li

Indiana University-Purdue University Indianapolis, USA

Data aggregation technologies of wireless multimedia sensor networks: A survey

Cheng Chen; Bin Tian; Ye Li; Qingming Yao

Decentralized Average Consensus in Wireless Sensor Networks with Probabilistic Network Links

Steve Saed; Lingxi Li; Dongsoo (stephen) Kim

Crash Data Partition Methodology in Development of Active Safety Sensors and Product Solutions

Glenn r. Widmann

Development of a UEGO Sensor Controller Based on dSPACE

Jiazhen Chen; Yunzhi Huang; Yuanyuan Zhang; Kejun Xu

Event Sequence Reconstruction in Automated Guided Vehicle Systems

Yizhi Qu; Lingxi Li; Yaobin Chen; Yaping Dai

Vehicle Testing and Control

Bo Hai Room
From 2010-07-16 15:50:00 To 2010-07-16 17:30:00

Session Chair: Yair Wiseman

Bar-Ilan University, Israel

Session Co-Chair: Jiang Liu

School of Automotive and Transportation, Qingdao Technological University, China

Model Driven Testing of Embedded Automotive Systems with Timed Usage Models

Sebastian Siegl; Kai-steffen Hielscher; Reinhard German

Scalable Parallel Simulator for Vehicular Collision Detection

Ilan Grinberg; Yair Wiseman

Novel Optimization Strategy to Improve Fuel Economy for Heavy-Duty Trucks

Adam Maina ari; Sarah Koskie; Yaobin Chen

Study on Electronic Throttle System Controller Design

Jiang Liu; Guoqing Ji; Yushun Wang

Computing Utilization Rate of Rate Monotonic Scheduling Mechanism in Controller Area Network

Peng Hao; Yang Shun

Embedded Operating Systems

Bo Hai Room
From 2010-07-17 09:00:00 To 2010-07-17 10:00:00

Session Chair: Reinhard German

University Erlangen-Nuremberg, Germany

Session Co-Chair: Chuanpei Xu

School of Electronic Engineering, Guilin University of Electronic Technology, China

Intelligent System Of Construction Machinery Based On μ C/OS- II

Aijun Zhu; Chuanpei Xu

Scheduling Complex Automotive Embedded Real-Time Systems

Christoph Lauer; Kai-steffen Hielscher; Reinhard German

A Wireless Front-End Module for X-Band Applications

Chin-lung Yang; Ling Kung; Feffrey s Fu; Tzu-chiang Tang; Hsien-ju Chang

Bo Hai Room

Vehicular Signal Processing

From 2010-07-17 10:40:00 To 2010-07-17 12:00:00

Session Chair: Shuming Tang

Chinese Academy of Science, China

Session Co-Chair: Yair Wiseman

Bar-Ilan University, Israel

Take a Picture of Your Tire!

Yair Wiseman

Vehicular Sensor Networks Authentication New Approach

Hong Wen

Reconstructing Car Shape from a Still Image

Yuan Gu; Fei-yue Wang; Shuming Tang

Autonomous driving systems – methodological considerations in human factors research

Nicola Fricke; Heather Wisdom; Michael Justiss; Sarah Koskie; Robert Dufour; Glenn Widmann