

# TM01

## Poster Session

09:00 – 11:00

Chair1 : Jinyoung Kim ( Tongmyong Univ., Korea )

Room : Base 2nd Floor-Zillertal

Chair2 :

TM01-1

### ESTIMATION OF ERRORS IN INS WITH GPS

YuShin Chang, JaeSik Kim, SK Ha, CS Kim, EJ Kim, SP Hong(Pusan Nat'l Univ., KOREA), MH Lee

- Contents 1. Introduction
- Contents 2. Error Models of Navigation
- Contents 3. Observability Properties of GPS/INS
- Contents 4. Measurement System for INS Error Estimation
- Contents 5. Numerical Simulation Results
- Contents 6. Conclusions

TM01-2

### Description of Range Control System in Space Center

sek-young yun, yong tae choi, hyo keun lee(KARI, KOREA)

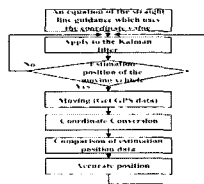
NARO Space Center is being developed as a national project for the Korea Space Development Program. Among the major missions of the Space Center, the Range Control System is the focal point for all command and control operation of the Space Center. The acquired data from the Tracking Stations and the on-site facilities is processed and distributed in the Control Center. Data processing or data fusion is needed for the exact tracking of the Launch Vehicle from several tracking systems. The first phase, which is the best telemetry source is selected among data streams that are received from each telemetry stations using some pre-defined criterion. Trajectory data and major telemetry parameters...

TM01-3

### A study on DGPS data Compensation using Vision System through respectively coordinates conversion for Autonomous Land Vehicle.

Janghun park, Seongryong Mun, Suckwoo Song, Junik Jeong, Dohwan Rho(Chonbuk Nat'l Univ., KOREA)

1. Introduction: The necessity of DGPS data compensation.
2. Configuration of the GPS and coordinates conversion
  - 2-1. Coordinates conversion of CCD camera.
3. Vehicle Model and Evaluation
4. Accurate error position algorithm.
5. Experiment and result.
6. Conclusion: It was possible that we converted the CCD data into the GPS coordinates data.



TM01-4

### FIPA-OS Framework Bundle Implementation over OSGi Service Platform

HyungJik Lee, DongWan Ryoo, JeunWoo Lee(ETRI, KOREA)

In this paper, we implemented the FIPA-OS framework bundle and service agent bundle over the OSGi service platform in home-server platform. The FIPA-OS is the first open source implementation of the FIPA standards and is a component-based toolkit implemented in Java. The FIPA-OS bundle is composed of two bundles. One is the communication bundle such as RMI, IIOP, HTTP and ACC. Another is the agent loader bundle. Experiments are conducted on the service agent communication and loading by the agent loader bundle, and the proposed bundles are successfully installed, stopped, and uninstalled over the OSGi service platform.

TM01-5

### Design Data Acquisition System Using Embedded PCI Local Bus Core

Sangdeok Lee, Woonchul Ham(Chonbuk Nat'l Univ., KOREA)

1. Introduction
2. PCI Local Bus Specification Abstract
3. Design Embedded PCI Local Bus
4. Simulation Results
5. DAS Application Design Methodology
6. Conclusion

TM01-6

### A New Approach to the Stability Analysis Method of Networked Control Systems

Joonhong Jung, Sooyoung Choi, Kiheon Park(SungKyunKwan Univ., KOREA)

- Present a new stability analysis method of NCSs
- Propose the stability condition of NCSs with dynamic controller
- Find the stability region where NCSs for power system are guaranteed to be stable
- Determine a proper sampling period of NCSs that preserves desired stability performance
- Experiment : NCSs for power system using CAN