

# TM01

## Poster Session

09:00 – 11:00

Room : Base 2<sup>nd</sup> Floor-Zillertal

Chair1 : Jinyoung Kim ( Tongmyong Univ., Korea )

Chair2 :

TM01-25

### Development of PC Based Shape Control System In Cold Rolling Mill

Yeong Bok Park, Gyu Taek Lee(POSCO, KOREA)

- This system executes the algorithm that makes the various types of shape to the flat shape.
- In old system, we could not develop and test the new shape control algorithms
- We developed the PC based cold mill shape control system.
- It can be added on the new shape control algorithm and is cost-effective and maintained easily.
- The shape control system consists of the shape controller, the MMI system and the Shape data server.

TM01-26

### Development of a Real-Time Dynamic Simulator for Braking Performance Test of Aircraft with Anti-skid Brake System

JEONG WOO JEON, KI CHANG LEE, DON Ha HWANG, YONG JOO KIM(KERI, KOREA)

1. Introduction
2. Dynamics of Aircraft Landing
3. ABS Control Unit
4. Test
5. Conclusions

TM01-27

### MetaFluxNet: a program for metabolic flux analysis (MFA)

HongSoek Yun, Dong-Yup Lee, Sang Yup Lee, Sunwon Park(KAIST, KOREA)

1. Introduction
  2. General flux balance model
  3. MetaFluxNet
    - 3.1 Overview of MetaFluxNet
    - 3.2 Project file format
    - 3.3 Construction of metabolite reaction model
    - 3.4 Metabolic flux analysis using linear programming
    - 3.5 Visualization of MFA results
  4. Conclusion and plan
  5. Acknowledgement
- References

TM01-28

### Digital Endoscopic Image Segmentation using Deformable Models

Sung Won Yoon, Jeong Hoon Kim(Shinheung College, KOREA), Myoung Ho Lee(Yonsei Univ., KOREA)

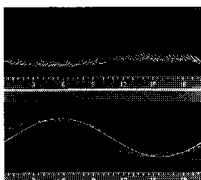
- Image segmentation is an essential technique of image analysis. In spite of the traditional issues in contour initialization and boundary concavities, active contour models(snakes) are popular and known as successful methods for segmentation.
- We could find in experiment that snake using Gaussian External Force is fast in time but low in accuracy and snake using Gradient Vector Flow by Chenyang Xu and Jerry L. Prince is high in accuracy but slow in time.
- In this paper, we presented a new active contour model, GGF snake, for segmentation of endoscopic image. Proposed GGF snake made up for the defects of the traditional snakes in contour initialization and boundary...

TM01-29

### A Study on the Wavelet-based Nystagmus Analysis of Electronystagmographic(ENG) Signals

Hong-Seok Jang, Jun-Ik Jeong, Ho-sun Lee, Do-Hwan Rho(Chonbuk Nat'l Univ., KOREA)

- Introduction
- Configuration of the ENG system
- Calibration of ENG system
- Algorithm
- Experiment and result
- Conclusion



TM01-30

### A Study on Development of Electronic Blood Pressure Depressor of Meridian Point Discrimination Type

Jung Ho Kim, Jin Woo Lee(Dong-A Univ., KOREA), Joon Ho Son, Soon Taek Kim(EXSO Technology Research Institute, KOREA), Kwon Soon Lee(Dong-A Univ., KOREA)

Recently, the seriousness of the high blood pressure appearing in the whole world as well as Korea. Therefore, the methods to treat this disease proposing. For example, there are the medicinal therapy and the dietetic treatment, etc. But these are uncertain and produce an adverse reaction. Thereupon, we studied effectively and financially to execute the treatment of the high blood pressure based on oriental medicine. Oriental medicine includes many treatments. We used Meridian Theory, the Meridian point, and Acupuncture that are a part of oriental medicine and treatments. And actualizing the above-explained treatment into electronic technique, we produced the same effect without the help of ...