

# FM02

## Poster Session

13:30-15:30

Chair1 : Tae-Jung Lho ( Tongmyoung Univ., Korea)

Room : Base 2nd Floor-Zillertal

Chair2 :

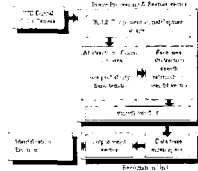
FM02-43

### Emotion Recognition Using Eigenspace

Sang Yun Lee, Jae-Heung Oh, Geun-Ho Chung, Young-Hoon Joo(Kunsan Nat'l Univ., KOREA), Kwee-Bo Sim(Chung-Ang Univ., KOREA)

#### System configuration

1. First is the image acquisition part
2. Second part is for creating the vector image and for processing the obtained facial image. This part is for finding the facial area from the skin color. To do this, we can first find the skin color area with the highest weight from eigenface that consists of eigenvector. And then, we can create the vector image of eigenface from the obtained facial area.
3. Third is recognition module portion.



FM02-44

### Development Of Temperature control system for kimchi-refrigerator using fuzzy logic

kwang sik jung, young jun no, young chel lim, young jae ryoo(Chonnam Nat'l Univ., KOREA), min tae ahn(Mokpo Nat'l Univ., KOREA)

**Abstract:** The temperature of Kimchi-refrigerator is controlled by the wishing condition the original taste of Kimchi, the fast precocity of Kimchi. In this paper we studied the controlling temperature of Kimchi-refrigerator. The controlling temperature of Kimchi refrigerator is based on microcontroller which control On/Off. In this paper, Fuzzy logic was used to control the temperature of Kimchi-refrigeration. I will apply to fuzzy logic control to have simple rule control on the place of On-Off control system in the past. This device controls the in order to measure several temperature of two refrigeration plant in Kimchi refrigerator solenoid valve in refrigeration plant. A solenoid valve ...

FM02-45

### Co-Evolution Algorithm of Subsumption Architecture for Behavior Learning

HyunYoung Kim , KweeBo Sim, DongWook Lee(Chung-Ang Univ., KOREA)

- introduction
- Co-evolution Algorithm
- Subsumption Architecture
- Neural Network
- Khepera Robot

FM02-46

### Fuzzy Modeling for Data Mining Using Information Granules

Do Wan Kim, Moon Hwan Kim(Yonsei Univ., Korea), Young Hoon Joo(Kunsan Nat'l Univ., Korea), Jin Bae Park(Yonsei Univ., Korea)

1. Introduction
2. Information Granules
3. The proposed fuzzy modeling scheme
4. Simulation: Iris data
5. Conclusions

FM02-47

### Knowledge Discovery in Product Development and Manufacturing:Application of Process Analysis, Control and Diagnosis using MD & KDD

Sungshin Kim(Pusan National University, Pusan, Korea), Kwang Bang Woo(Yonsei University), Hyeon Bae, Jae-Ryong Jung, Young Kwang Woo(Pusan National University)

- NGMS
- Digital Factory
- e-Diagnostics
- Fuzzy Logic
- Neural Network
- DPNN
- Data Mining & Knowledge Discovery

