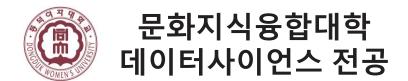
# 인공지능 기술을 활용한 연구 내용 소개

# ACK 2023 신진학자 워크숍



2023. 11. 3. 권범

# 1. About Me

### **Profile** (1/2)

### **Output** Education

2012. 3. ~ 2018. 2.	Ph. D. degree School of Electrical & Electronic Engineering, Yonsei University, Seoul, South Korea	(E) YONSEI UNIVERSITY
2000 2 2012 2	D 0 1	Soongsil University

### • Research Area

- Artificial Intelligence and Its Applications
- Computer Vision, Wireless Communication, etc.

### ○ Career

2021. 9. ~ 2023. 8.	Dongyang Mirae University Assistant Professor @ Department of Artificial Intelligence, Seoul, South Korea	동양미래대학교 DONGYANG MIRAE UNIVERSITY
2019. 10. ~ 2021. 8. (1 year 11 months)	Samsung Electronics Company, Ltd.  Staff Engineer @ Network Business, Suwon, South Korea	SAMSUNG
2018. 3. ~ 2019. 9. (1 year 7 months)	Agency for Defense Development (ADD)  Senior Engineer @ The 1st Research and Development Center, Daejeon, South Korea	국 방 과 학 연 구 소 Agency for Defense Development

## 1. About Me

### **❖** Profile (2/2)

• Research Projects – Principal Investigator

Title: Survey of Technology for Extracting Terrain Features from Satellite Images

Research Period: 2023. 9. 11. ~ 2023. 12. 8.

Funding Agency: Agency for Defense Development (ADD)

Title: Multimodal Emotion Recognition and Expression Technologies for Realistic Interaction in Metaverse

Research Period: 2022. 9. 1. ~ 2025. 2. 28.

Funding Agency: National Research Foundation of Korea (NRF)

Title: Method of Implementing Channel Coding for Multi-Receiver Millimeter Wave Data Link

Research Period: 2022. 8. 1. ~ 2022. 10. 31.

Funding Agency: Agency for Defense Development (ADD)

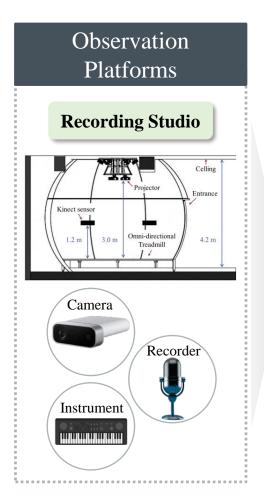


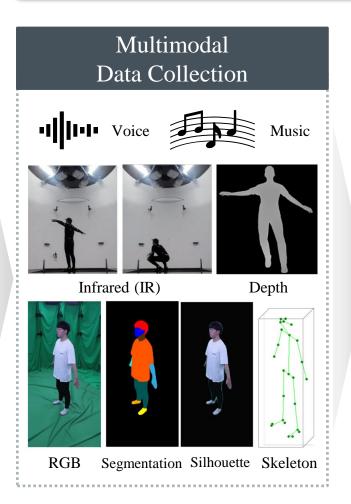


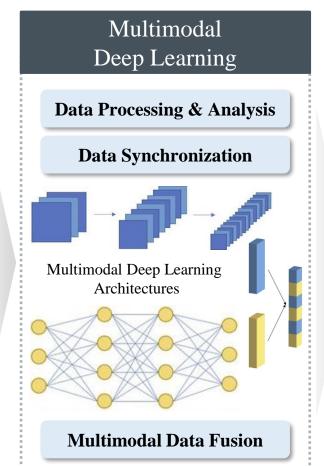


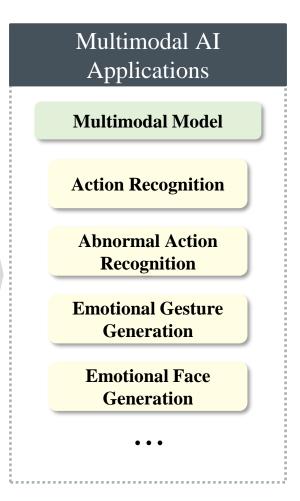
### 2. Research Overview

# **Multimodal AI Convergence Technology**





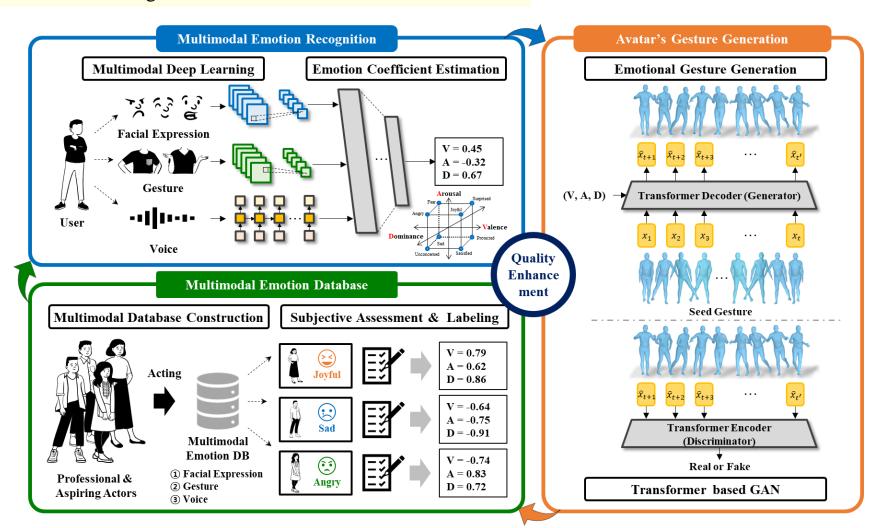


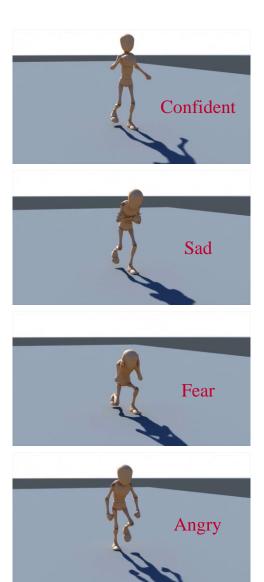


### 2. Research Overview

### **Modality:** *Video* + *Voice*

✓ Emotion Recognition and Emotional Gesture Generation

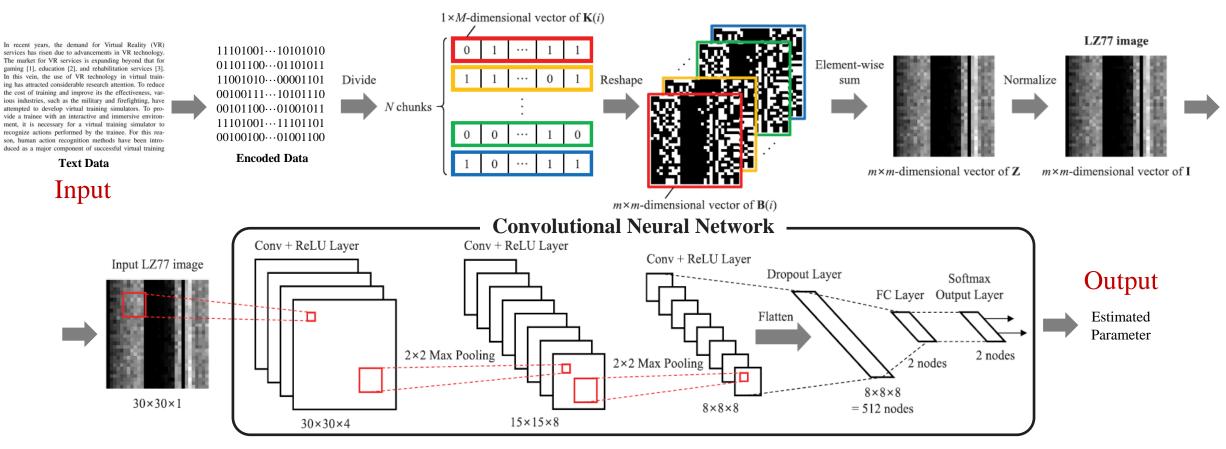




### 2. Research Overview

### Modality: *Text*

✓ Development of Method for Estimating the Compression Type of Text Data and Parameter Using Deep Learning



**Beom Kwon** *et al.*, "Accurate Blind Lempel-Ziv-77 Parameter Estimation via 1-D to 2-D Data Conversion Over Convolutional Neural Network," **IEEE Access**, vol. 8, pp. 43965-43979, 2020.

# THANK YOU! Q & A

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