Eureka clusters AI call Brokerage Event, 22nd April, 2021



Faster Innovation, Bigger Market

AI based Fire Protection System - Design Solution '&'

Al Wayfinding Crowd Control/ Evacuation Simulation

Proposed by KF UBIS



Company Profile



Company Name

KF UBIS Co., Ltd.

Establish Date	Oct, 10st, 1943
CEO	Mr. Doo Chan Choi
Business	Fire Protection Engineering Construction Supervision/Management ICT Research & Development Lab
Location	Seoul, South Korea
Capital	- 5
Web site	www.kfubis.com
Employee	270

Contact Person

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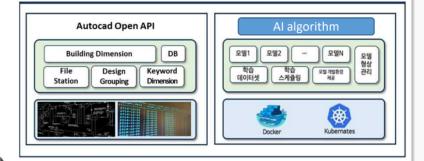
Purpose 1.

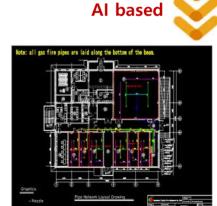
AI based Fire Protection System - Design Solution

Al based on AutoCAD



Al recognition on design concept and drawing





Automation drawing



Reliability of AI design

Process

The 1st Proposed Project Aims to Develop AI Based Fire Protection System

Design Solution Analysis Building Architectural Information including

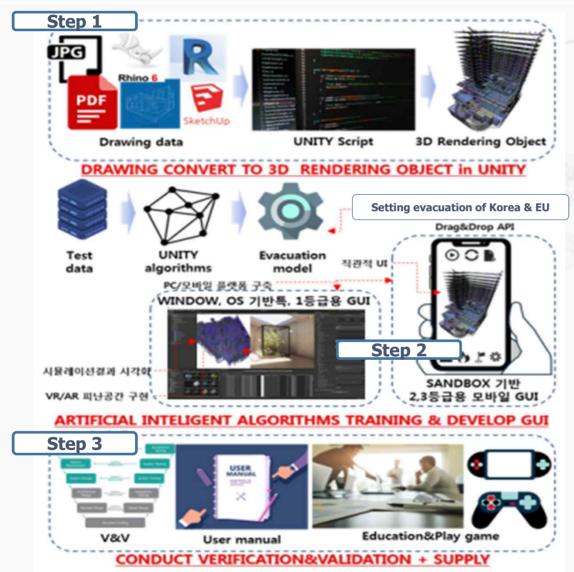
Related Codes/Standards for Creating Automatically Fire Protection

System Design Drawings.

- Analysis Various European and Korean Building and FP System Codes/Standards to AI Input Parameters
- Develop AI Algorithm for FP System Design based on Building Information Analysis
- Al Solution will recognize Autocad floorplan and create Fire Protection System Design Drawing
- Establish International Cooperation Organization or Cluster for AI Certification and Standard

Purpose 2.

AI Wayfinding Crowd Control/ Evacuation Simulation









Process

The 2nd Proposed Project Aims to Develop Crowd Control/Evacuation Simulation including Evacuation Pattern Learning based AI Algorithm for Safe and Reliable Wayfinding in Disaster Situation such as Fire.

- Research AI Learning of Various Cultural Human Behavior, European and Korean Body
 Size for Crowd Control Analysis
- Develop AI Algorithm Reflects Real-Life Evacuation Movement during Fire and Overcome Existing Evacuation Simulation Limitations.
- **Develop AI Wayfinding Crowd Control/Evacuation Simulation Solution**

Expectation

- To develop the AI design solution for AutoCAD drawing on active fire protection system is the state of art AI technique.
- Relative company and institute can be widely used without human error in designing Active fire protection system in building
- Inspite of physical and sociological difference between Europe and Korea, Al output of our project can be applied in various field

Possible Partner Profile

Type of Partner Needed

SME or Research Institution

- Required expertise
 - EGOLF member or Standardization
 - RISE in Sweden,
 - Centre for the Development of Industrial Technology in Spain
- Roles in the project
 - ICT or S/W analysis of AI algorithm