

INFORMATION ON NEW CONTRIBUTIONS OF THE THESIS

Subject name: *Refuge space in super high-rise building architecture in Vietnam*

Specialized: **Architecture** – Code: **9580101**

Postgraduate: **Tran Phuong Mai** – Class of **2017**

Science instructor: **Prof. Dr. Doan Minh Khoi**

Educational institution: **Hanoi Architectural University**

1. Proposing a solution to organize a concentrated refuge space inside and outside the house, building a strategy for evacuating people in the vertical combined with the horizontal to optimally solve the problem of escaping people in super high-rise buildings with the fastest time, thereby applying to the architectural design of super high-rise buildings combined with refuge outside the house when using skybridges to connect different refuge spaces on the same elevation in the conditions of Vietnam.
2. Proposing a solution to combine the refuge space with other utility functions to make optimal use of the area of the refuge floor such as combining the refuge space with the technical floor, the refuge space with utilities public services combined with gardens, greening the super high-rise roof turns it into a green refuge floor, reducing costs for investors and increasing benefits for users.
3. Proposing a solution to arrange dispersed evacuation spaces instead of concentrated at the refuge floor for the cases of super high-rise buildings with small area, multi-faceted floor plan, route and number of users is not high, it is suggested that additional functions can be arranged on the floor with a refuge area in the Regulations to suit the conditions of Vietnam.
4. A system of criteria for evaluating the refuge space has been developed, thereby proposing criteria for evaluating the refuge space in super high-rise buildings by scores. This criterion evaluates the effectiveness of the arrangement of the refuge space when combined with the green space, the technical space of the building and the community living space, utility public services to aim at value humanity and sustainability for the organization of the refuge space in the architecture of super high-rise buildings in Vietnam.