

ABSTRACT

Faqihuddin, M. Imam. 2013. **The Design of International Robotics Centre in Malang** . Lecturer advisor Agus Subaqin, MT and Dr. Agung Sedayu, MT.

Keywords : robotics centre, international, structure as architecture, structure as aesthetic, structure as light, structure as flexibility room, structure as articulating circulation, structure as high-tech expression, modesty, efficiency.

International Robotics Centre is some big buildings that used for some activities that have correlation with robotics field. It is about designing, making process, and robot operating. It has same level with the other countries in the world. In Indonesia, there is the only one Robotics Centre that makes contest function and research centre function become in one area, it is in Surabaya. So, it needs dissemination to the other cities in Indonesia, one of them is Malang. It is chosen because Malang is an Educational City and there are many universities that need this building. International standard of Robotic Centre in chosen because it is hoped can increase Indonesia's achievement for robotics field in international competitions. In addition, it is hoped can introduce Indonesia to the international world as a country that able to be the next host of international robotics competition.

Because of Robotics Centre is identical with robot, then with *Structure As Architecture* theme it is hoped can rise the characteristic of robot well so if that building is seen directly, it can be imaged by everyone that it is the building of robotics. This theme is supported by application of the concept that has the same name, *Structure As Architecture*, but it's principles have been selected so there are still have five principles that is used, that is *structure as aesthetic*, *structure as light*, *structure as flexibility room*, *structure as articulating circulation*, and *structure as high-tech expression*. This concept will be combined with modesty and efficiency aspect so it will create the concept that completes each other. The application is structure that is in the beginning was only as the structure of the building and then there is additional function as architectural element too, for example structure as structure and as light modifier, as aesthetic, as flexibility room, as circulation articulator, and as high-tech descriptor. This multifunction structure shouldn't appear the arrogant and redundant application. So, although the structure has additional function, it should still on the boundaries that make it seen arrogant and redundant.