

## **Developing criteria and design transformation process in designing landscape elements based on nature and Islamic principles**

### **ABSTRACT**

In designing urban landscape, there is a lack of consideration in integrating the cultural and environmental resources such as local plants to contribute to the material and design production. A clear understanding on the source of an idea, design process, development and design system is therefore needed. This paper examines the potential of systematic design process in producing designed elements based on the nature (local plants) and Islamic design principles, shapes and forms. The design experiment adopted the framework of design transformation process. Questionnaire surveys were conducted with 159 design students to identify the functions of the design transformation process and its effectiveness in the producing design variations. The results indicated the importance of systematic design processes in producing variation in the design. These findings will support a more creative system in designing Islamic urban landscape that displays a unique identity and suit the local environment and culture.

**Keyword:** Design process; Tiles design; Design transformation; Nature; Culture