

Advanced Robotics 2018: Shifting product design from technology driven to user centre design

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Abstract

Traditional industrial design is about functions and forms. Designers placed great emphasis on forms and aesthetics. However, technology innovation has shifted industrial design from the stage of technology driven to user centered design driven, this is also due to the functions of products are increasingly complex to interact, i.e. electrical/computers devices, mobile phones and multifunctional products. So that industrial design now emphasizes on bettering user experience. Don Norman defines user centered design as all aspects of the person's experience with the system including the interface, the physical interaction and the manual. Technology revolution results in products are getting more complex, in particular those of multimodality interfaces include car dashboard and aircraft cockpits that displayed a number of information such as engine temperature, fuels level, speed etc. That challenges the user to recognize/understand the information. Human factor is the scientific discipline that concerned with the understanding of the interactions among humans and other elements of a system. knowledge, in particular product semantics is a language that helps people to understand and interact with products easily and efficiently. Designers rely on this language to communicate with users; to express functions, reliabilities and characters through forms, material/textures and semiotics. The fundamental objective and purpose of this work are to justify and bring to the fore how solid waste segregation and recycling in Port Harcourt metropolis can constitute a key basis for an actively caring culture for sanitation and sustainable city development that can be scaled up and.

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