

Awareness for Air Pollution Impacts on Lung Cancer in Southern California: A Pilot Study for Designed Smartphone Application

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Abstract : This study follows the design science research methodology to design and implement a smartphone application artifact. The developed artifact was evaluated through three phases. The System Usability Scale (SUS) metric was used for the evaluation. The designed artifact aims to spread awareness about reducing air pollution, decreasing lung cancer development, and checking the air quality status in Southern California Counties. Participants have been drawn for a pilot study to facilitate awareness of air pollution. The study found that smartphone applications have a beneficial effect on the study's aims.

Keywords : air pollution, design science research, indoor air pollution, lung cancer, outdoor air pollution, smartphone application

Conference Title : ICEPPH 2023 : International Conference on Environmental Pollution and Public Health

Conference Location : New York, United States

Conference Dates : July 06-07, 2023