**Multi-objective Optimization of Window Size: A Case for the SAFAD Building of the University of San Carlos**

Ivan John A. Naparota1, Mark Anthony Cabilo2, Isabelo A. Rabuya3

123Department of Electrical and Electronics Engineering

University of San Carlos

[1ivanjohnnaparota66@gmail.com](mailto:1ivanjohnnaparota66@gmail.com), [2macabilo@usc.edu.ph](mailto:2macabilo@usc.edu.ph), 3iarabuya@usc.edu.ph

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Window sizes influence a building’s energy consumption significantly, therefore, if optimized properly, additional power demand could be avoided. In a country like the Philippines, where there are no existing design guidelines for energy efficient buildings, it is therefore important to explore optimal window sizes that will improve a building’s energy efficiency, while considering parameters that are relevant for Philippines’ climate and location. Thus, this paper will perform multi-objective optimization of window size relevant for buildings in the country, that will consider the trade-off relationship between lighting and cooling energy consumption and the visual comfort of building occupants. This optimization process will be performed using calibrated building energy simulation with the SAFAD building of the University of San Carlos as case study building. Range of window sizes that will deliver the least cooling and lighting energy consumption while maintaining the right amount of daylight in the building space will be presented as output.