**Characterization of impurity contamination in solar cells with the assistance of machine learning**

**Oleg Olikh**, Oleksii Zavhorodnii

*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*

*email: olegolikh@knu.ua*

**Abstract**

Please do not change the format:Arial 10pt font. 1.5 interline spacing. Maximum 350 words excluding references.

Equations, tables and figures are allowed, but the abstract should not exceed 1 page and 1MB.

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| Fig. The prediction results of the deep neural network (left panel) and random forest (right panel) for the test dataset, obtained for AM1.5 illumination condition. The black lines are the identify lines servings as the references | |