

The 1st edition of the International Conference on  
Electronics Engineering and Telecommunications (2ETA"23)  
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## PARTICIPATION CERTIFICATE



This certificate is proudly presented to



*Rafik Zouache*

and:

*Jdris Bouchama, Okba Saïdani, Elyazid Zaidi, Abderrahim Yousfi, Zitouni Messai*

in recognition of presenting an article entitled “Enhancing Efficiency in CIGS Solar Cell through Numerical Analysis by inserted  $\mu\text{-Si:H}$  BSF Layer”, at the 1st edition of the International Conference on Electronics Engineering and Telecommunications (2ETA"23). This conference is organized by the ETA Laboratory, with the sponsorship of the Thematic of Research Agency in Science and Technology (ATRST).

President Of The Conference  
Pr. Zoubeida Messali

