



**UNTAR**  
Universitas Tarumanagara

**62<sup>th</sup>**  
Untar Bersinergi  
Untar Bereputasi



**LPPM UNTAR**  
Lembaga Penelitian dan  
Pengabdian kepada Masyarakat

**Kampus  
Merdeka**  
INDONESIA JAYA

*International Conference on  
Applied Science,  
Technology, and Engineering  
(ICASTE)*



**ICASTE  
2022**



**ICEBSH  
2022**

*International Conference on  
Economics, Business,  
Social, and Humanities  
(ICEBSH)*



**CERTIFICATE**  
of Achievement

**Elizabeth Sugiarto Dermawan**

for the contribution as :

**Participant**

Director  
Institute of Research and Community Engagement  
Universitas Tarumanagara



Assoc. Prof. Ir. Jap Tji Beng, MMSI., Ph.D.

Chairperson  
ICASTE 2022,



Dr. Eng. Titin Fatimah, S.T., M.Eng.



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