



5<sup>th</sup>



OR CLEVER

Science & Research Group

[www.orclever.com](http://www.orclever.com)

International Conference on Access to Recent  
Advances in Engineering and Digitalization  
19 - 20 June 2025, Türkiye

# *Certificate of Participation*

This is to certify that  
***Begüm Erdem***

has participated in the 5th International Conference on Access to Recent Advances in  
Engineering and Digitalization

**Paper Title** A Dynamic Management Model Based on SDN and VLAN for Virtual Machine  
Cloning in Complex Network Topologies

**Paper Authors** Simge Şengül, Berat Özbay, Begüm Erdem, Rüveyda Eto

**Presentation Type** Oral

**Certificate Verification Code**  
**303078900**

for verification please visit to  
<https://araonf.com/>

  
**Assoc. Prof. Dr. Zeki Oralhan**  
**Conference Chair**