


تحت الرعاية السامية لصاحب الجلالة الملك محمد السادس  
UNDER THE HIGH PATRONAGE OF HIS MAJESTY THE KING OF MOROCCO, MOHAMMED VI

5<sup>th</sup> INTERNATIONAL IEEE CONGRESS  
ON INFORMATION SCIENCE AND TECHNOLOGY  
 **IEEE CIST'18**  
MARRAKECH, MOROCCO, OCTOBER 21-27, 2018

# CERTIFICATE

THE ORGANIZING COMMITTEE OF THE 5<sup>TH</sup> IEEE INTERNATIONAL CONGRESS ON  
INFORMATION SCIENCE AND TECHNOLOGY - IEEE CIST'18 - CERTIFIES THAT

**DR. HACHEM SLIMANI**

HAS ATTENDED AND PRESENTED A PAPER ENTITLED  
**COOPERATION BASED COALITION FORMATION IN DISTRIBUTED SYSTEMS**  
CO-AUTHORS : MESSAOUDA AYACHI AND HASSINA NACER

IEEE CIST'18 CHAIR  
PR. EL MOHAJIR MOHAMMED

  
IEEE CIST