



<http://www.ceslab.org/TWESD2024/>

## The 11th Tunisian Workshop on Embedded Systems Design

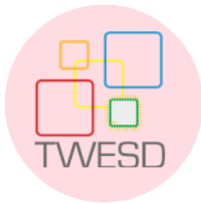
**TWESD'24**

**Generative AI and the challenges to Education**



# TWESD'24

June 22-24, 2024



## Program

### Saturday

12:00 AM - 2:00 PM: Registration

2:00 PM - 2:15 PM Workshop  
opening

2:15 PM - 4:15 PM Keynote 1

4:15 PM - 4:45 AM Prayer Break

4:45 PM - 5:30 PM PhD  
presentations

5:30 PM - 6:15 PM AI in  
Healthcare

8:30 PM-9:30 PM Keynote 2

9:30 PM - 10:30 PM Lab Projects  
Discussion

### Sunday

8:30 AM - 10:30 AM S1: ISTQB

10:30 AM - 10:45 AM Break

10:45 AM - 12:45 AM S2: ISTQB

12:45 PM - 2:00 PM Lunch Break

2:00 PM - 3:45 PM S3: ISTQB

3:45 PM - 4:15 PM Prayer Break

4:15 PM - 5:30 PM Keynote 3

9:30 PM- 11:30 PM Animation

### Monday

8:15 AM - 8:45 AM Keynote 4

8:45 AM - 10:30 AM Keynote 5

10:30 AM - 10:45 AM Break

10:45 AM - 11:30 AM Competitions  
1 & 2

11:30 AM - 12:30 AM Closing  
Ceremony

12:30 AM Room Check-out &  
Lunch

**Day1: Saturday, June 22, 2024**

**12:00 AM - 2:00 PM Registration**

- **Registration Check**
- **Room Check-in**

**2:00 AM - 2:15 PM Workshop opening**

- **Welcome speech**
- **Introduction to the workshop's agenda.**

**2:15 PM - 4:15 PM Keynote 1**

- **Speaker: Prof. Brahim Hnich (FSM, Monastir, Tunisia)**
- **"The Transformative Power of Artificial Intelligence"**

**4:15 PM - 4:45 PM Prayer Break**

**4:45 PM - 5:30 PM PhD presentations**

- **Abir Loussaief:** Modeling Harmful Algal Blooms (HABs) using machine learning techniques
- **Atiyah Awadh Altayf:** Intelligence selection for the PV-BESS baseb on cost and relibility using MCDM
- **Hajer Ben Daya,** Monitoring of Trophic Index (TRIX) in maritime context
- **Farah KhemaKhem,** Classification des micro-algues par cytométrie en flux d'imagerie
- **Amani Khalifa :** At-Risk Students Identification based on Machine Learning Approach: A Case Study of Computer science bachelor student in Tunisia
- **Bilel Nasri :** Nouvelle approche basée sur la segmentation super-pixels et GAN pour la détection de la pneumonie

**5:30 PM - 6:15 PM AI Innovations Transforming Healthcare**

- **Speaker: Dr. Salima Daoud (FMS, Sfax, Tunisia)**
- Artificial Intelligence in reproductive health: an evolving role
- **Speaker: Dr. Olfa Abdelkafi (FMS, Sfax, Tunisia)**
- Development of a Deep Learning model for the classification of human sperm

**7:30 PM - 8:30 PM Dinner**

**8:30 PM - 9:30 PM Invited Session: Mechatronics Instrumentation**

- **Speaker: Dr. Ezideen Hasso (Tishk International University, IRAQ)**
- **"Pitot Tube and Microelectromechanical Systems"**

**9:30 PM - 10:30 PM Lab Projects Discussion**

**Day2: Sunday, June 23, 2024**

**08:30 AM - 10:30 AM Training S1: ISTQB**

- **Speaker: Yessine Hadj Kacem (FSEG, Sfax, Tunisia)**
- Theoretical Part: Preparation for ISTQB Certification
  - Fundamentals of Testing
  - Testing throughout the Software Development Lifecycle
  - Static Testing
  - Testing Techniques
  - Test Management
  - Testing Support Tools

**10:30 AM - 10:45 AM Break**

**10:45 AM - 12:45 PM Training S2: ISTQB**

- **Speaker: Yessine Hadj Kacem (FSEG, Sfax, Tunisia)**
  - Practical Part (1): Automated Testing with Selenium

**12:45 PM - 14:00 PM Lunch Break**

**14:00 PM - 15:45 PM Training S3: ISTQB**

- **Speaker: Yessine Hadj Kacem (FSEG, Sfax, Tunisia)**
  - Practical Part (2): Automated Testing with Selenium
  - Q & A

**15:45 PM - 16:15 PM Prayer Break**

**16:15 PM - 17:30 PM Keynote 2**

- **Speaker: Dr. Wael Ouerda (Head of Brain4ICT Team, SM@RTS, CRNS, Sfax, Tunisia)**
- “Empowering Pedagogy: Unleashing AI's Potential in Education”

**19:30 PM - 20:30 PM Dinner**

**21:00 PM - 23:30 PM Animation**

**Day3: Monday, June 24, 2024**

**8:15 AM – 08:45 AM      Keynote 3**

- **Speaker: Marco Neves (AI Education Expert, Portugal)**
  - “AI for Education and Scientific Research”

**8:45 AM – 10:30 AM      Keynote 4**

- **Speaker: Prof. Anis Koubaa (PSU, KSA)**
- Recent Advances in Generative AI and Large Language Models
  - Technology Advances
  - Emerging Applications
  - ArabicLLM

**10:30 AM – 11:30 AM      Break & Competition**

- **Competition 1:** IoT Competition
- **Competition 2:** Pioneering Medical Image Interpretation and Diagnosis through AI

**11:30 AM - 12:30 AM      Closing Ceremony**

- **Competition Prize Announcements**
- **Certificates Distribution**

**12:30 AM                      Room Check-out & Lunch**