IEEE Tunisian Students & Young Professionals Congress
TSYP 11th Silicon Valley

IEEE — Advancing Technology for Humanity
IEEE Foundation — Reflecting on 50 Years of Impact
region IEEE 8
IEEE | Tunisia Section
IEEE young professionals Tunisia Section
IEEE SAC Student Activities Committee TUNISIA
UNIVERSITY OF SOUSSE — جامعة سوسة — Socially Responsible University
ESST HAMMAM SOUSSE — المدرسة العليا للعلوم و التكنولوجيا بحمام سوسة
IEEE ESSTHS Student Branch

Explore Our Program

18-19-20 DECEMBER 2023

TSYP.IEEE.TN

DAY 1 : 18 DECEMBER 2023

SB'S BOOTH SETUP
8:00 AM - 1:00 PM
Booths Hall

8:00 AM - 1:00 PM CHECK-IN
Medina Hall "Espace Jardin"

2:00 - 4:50 PM OPENING CEREMONY

- **KAYOUM DJEDIDI - TSYP CHAIR** Tunisia
- **RIMA FATHALLAH - IEEE ESSTHS** Tunisia **CHAIRWOMAN** Tunisia
- **HABIB KAMOUN- IEEE TUNISIA SECTION** Tunisia **CHAIRMAN** Tunisia
- **MOHAMED NEJI - SAC CHAIRMAN** Tunisia
- **MOHAMED ZORMATI - STUDENT BRANCH CHAPTERS COORDINATOR IN REGION 8.** Tunisia

PANEL DISCUSSIONS :

- **KHALED LTAIEF - IEEE BOARD OF DIRECTOR** China
- **DEEPAK MATHUR - IEEE MGA VICE-PRESIDENT ELECT** India
- **MIKE HINCHEY: IEEE R8 DIRECTOR-ELECT** Ireland
- **ABDULATIF ALIYU: IEEE R8 SAC CHAIR** Nigiria
- **SEIF ELHAJJEM: IEEE REGION 8 YP SUBCOMMITTEE MEMBER** Tunisia

SPONSORS WORD :

- **POLYTECHNIQUE**
- **ORANGE WORD**
- **SMOFT WORD**
- **CODING DOJO**

PANEL DISCUSSIONS :

- **NITA PATEL: IEEE COMPUTER SOCIETY** America **CHAIR**
- **ANTONIO LUQUE: VICE-PRESIDENT FOR** Spanish **MEMBERSHIP ACTIVITIES OF THE IEEE IES SOCIETY**
- **MAURIZIO BOZZI - IEEE MTT'S PRESIDENT-** Italy **ELECT**
- **LWANGA HERBERT - IEEE HUMANITARIAN TECHNOLOGIES BOARD CHAIR** Ouganda
- **LAURA MEYER IEEE OES, UN OCEAN DECADE, ECOP PROGRAM** Germany

COFFEE BREAK 5:00 - 5:15 PM
Booths Hall & "espace jardin"

BOOTHS EXPO & JOB FAIR
5:00 - 5:15 PM
Booths Hall & "espace jardin"

DINNER 7:00 - 10:00 PM
Medina Restaurants

10:00 PM - 12:00 AM
SURPRISE CHALLENGE ANNOUNCEMENT PARTY & SOCIAL ACTIVITIES
Hannibal Congress room - Booths Hall

DAY 2 : 19 DECEMBER 2023

7:00 - 9:00 AM BREAKFAST
Medina Restuarants

BREAKOUT SESSION 1 9:00 - 10:30 AM

WORKSHOPS

FUNDAMENTALS OF DEEP LEARNING 1
MOURAD ZERAI

Cesar 1

RETHINKING AI: A ROUNDTABLE DISCUSSION ON BALANCING TECHNICAL PROGRESS WITH ETHICAL IMPERATIVES
FEYROUZ HAMDAOUI ,HEND HCEN, FATMA SBIAA, SALAH GONTARA
Cesar 4

ADVANCING 5G TECHNOLOGY INNOVATIONS INTO THE 6G ERA
FAWZI BEHMANN
Hannibal 2

EFFECTIVE STUDENT BRANCH MANAGEMENT
MOHAMED NEJI & SAC TEAM
Olivier

ELECTRONIC CONTROL DEVELOPMENT AND TESTING: THE V-CYCLE
TAREK LAHDHIRI
Hannibal 1

YOUNG PROFESSIONALS IN TUNISIA AND BEYOND
OUSSAMA LAAJILI + SEIF ELHAJJEM
Hannibal 3

10:30 - 11:00 AM COFFEE BREAK

IEEE IES AFRICAN CONTINENT CHAPTERS WORKSHOPS

IES MD VP, IES AFRICAN CHAPTERS REPRESENTATIVES

Cesar 2

EMBS GLOBAL HEALTH FORUM

KEYNOTE TALK:

Pursuit of Precision Health: The Digital Twin Opportunity

MHealth4Afrika – Co-designing an Integrated Solution for Resource Constrained Environments

Cesar

JOB FAIR

Medina Hall Espace Jardin

CHALLENGES

- **CS & YP CHALLENGE 1**
  Cesar 6
- **SIGHT CHALLENGE**
  Hannibal 4
- **IAS TECHNICAL CHALLENGE 1**
  Jupiter
- **PES CHALLENGE 1**
  Cesar 7
- **SMC & EDUCATION CHALLENGE**
  Cesar 8
- **CAS & RFID CHALLENGE**
  Cesar 3

PANEL DISCUSSION

Navigating the AI Landscape: Insights and Innovations in AI from Academia to Industry
HATAM HADDAD, MOEZ BEN HAJ HAMIDA, HOUMAN ZOLFAGHARI, ALADDIN AYECH.

Hannibal (main congress venue)

BREAKOUT SESSION 2 11:00 - 12:30 AM

WORKSHOPS

FUNDAMENTALS OF DEEP LEARNING 2
MOURAD ZERAI

Cesar 1

SECTION FINANCE PLATFORM OVERVIEW (FOR SB CHAIRS & TREASURERS)
MOHAMED ALI ZORMATI

Hannibal 2

SPAX - CREATIVITY IS INTELLIGENCE HAVING FUN
ICHRAF JARRAY

Hannibal 3

DESIGNING AND DEVELOPING AI PROJECTS FOR THE REAL-WORLD SCENARIOS
HOUMAN ZOLFAGHARI

Hannibal 1

WHAT IS A BCI, WHAT ARE IT'S TYPES AND THE LATEST STATE OF THE ART: DECODING SPEECH IN REAL-TIME
MOHAMED BAHA BEN TICHA

Cesar 4

INTRODUCTION TO INDUSTRIAL ELECTRONICS SOCIETY
ANTONIO LUQUE & ALA CHALGHAF

Oliver

IEEE IES AFRICAN CONTINE[NT] CHAPTERS WORKSHOPS

IES MD VP, IES AFRICAN CHAPTERS REPRESENTATIVES
Cesar 2

EMBS GLOBAL HEALTH FORUM

-Pioneering Deep Health: Defining Health and Distinguishing Disease with Metabolomics and Artificial Intelligence at Disruptive Scalability and Cost, by Ali Tinazli

-An Approach to Precise, Predictable and Personalized Cancer Care and Drug Development, by Colin Brenan

Cesar

JOB FAIR

Medina Hall Espace Jardin

CHALLENGES

CS & YP CHALLENGE 1

Cesar 6

SIGHT CHALLENGE

Hannibal 4

IAS TECHNICAL CHALLENGE 1

Jupiter

PES CHALLENGE 2

Cesar 7

CAS & RFID CHALLENGE

Cesar 3

SMC & EDUCATION CHALLENGE

Cesar 8

PANEL DISCUSSION

AROUND THE WORLD AFRICA HIGHLIGHT
RAMESH RAMADOSS - GORA DATTA - PROF.DOMINIC DAMOAH - OLUDELE AWODELE - PROF.MOHAMED HAMDI - TAREK KAMMOUN -IMEN RIABI- NIHEL BEN YOUSSEF

Hannibal (main congress venue)

BREAKOUT SESSION 3 02:30 - 04:00 PM

WORKSHOPS

FUNDAMENTALS OF DEEP LEARNING 2
MOURAD ZERAI
Cesar 1

FROM BMC TO PITCH: CRAFTING COMPELLING PROJECT PRESENTATIONS – A WORKSHOP IN ENTREPRENEURIAL COMMUNICATION
HEND HACEN
Hannibal 1

ETHICS IN AI
OUSSAMA CHELLY
Hannibal 2

TUNISIAN DIALECT NLP JOURNEY AS LOW-RESOURCED LANGUAGE
HATEM HADDAD
Hannibal 3

MACHINE LEARNING FOR DETECTING INTERNET TRAFFIC ANOMALIES
LJILJANA TRAJKOVIC
Hannibal 4

EFFICIENT ML WORKFLOWS: A KUBEFLOW MLOPS WORKSHOP
SALAH GONTARA
Cesar 4

GENERATIVE AI POWERED CHATBOTS
MOEZ BEN HADJ HMIDA
Cesar 6

PROJECT MANAGEMENT
ABDULATEEF ALIYU
Oliver

3D PRINTING
ZAKARIA BEN YOUNES
Cesar 8

IEEE IES AFRICAN CONTINENT CHAPTERS WORKSHOPS
IES MD VP, IES AFRICAN CHAPTERS REPRESENTATIVES

EMBS GLOBAL HEALTH FORUM
PLENARY TALKS
-Healthtech Innovation Generation with a Purpose and Method
-Precision medicine through health data integration

JOB FAIR
Medina Hall Espace Jardin

CHALLENGES

WIE CHALLENGE PART 1
Jupiter

RAS CHALLENGE 1
Cesar 7

AESS CHALLENGE PART 1
Cesar 3

4:00 - 4:30 PM **COFFEE BREAK**

BREAKOUT SESSION 4 04:30 - 06:00 PM

WORKSHOPS

FUNDAMENTALS OF DEEP LEARNING 4
MOURAD ZERAI
Cesar 1

IEEE EDUCATION SOCIETY VIRTUAL GRADUATE STUDY CONSORTIUM INITIATIVE
HAMADOU SALIAH-HASSANE
Hannibal 1

NON-TERRESTRIAL NETWORKS (NTN): ENABLING COMMUNICATION FOR REMOTE AND UNCONNECTED AREAS
ZIED BOUIDA
Hannibal 2

AI-EMPOWERED 6G NETWORKS FOR AN INTELLIGENT AND CONNECTED WORLD
KHALED LTAIEF
Hannibal 3

EMPATHIC AI: HUMAN FACTORS, SYSTEM ASSESSMENT AND STANDARDISATION
ALADDIN AYESH
Hannibal 4

KOLTIN ONCE RUN TWICE
OUSSAMA AROUA
Cesar 8

CONTAINERIZE THE MEAN STACK (KUBERNETES & DOCKER) PART 1
MR.MALEK EL AYEB
Cesar 6

3D PRINTING
MR.ZAKARIA BEN YOUNES
Cesar 8

IEEE IES AFRICAN CONTINENT CHAPTERS WORKSHOPS
IES MD VP, IES AFRICAN CHAPTERS REPRESENTATIVES
Cesar 2

PANEL DISCUSSION:
OCEAN DECADE INITIATIVE: SHAPING A SUSTAINABLE FUTURE:
A Session on Global Collaboration and Early Career Empowerment.
LAURA MEYER, FRANCESCO MAURELLI, INES BOUJMIL
Olivier

JOB FAIR
Medina Hall Espace Jardin

CHALLENGES

- **WIE CHALLENGE PART 2**
Jupiter

EMBS GLOBAL HEALTH FORUM:

- **EMBS CHALLENGE PART 1**
Cesar

- **RAS CHALLENGE PART 2**
Cesar 7

- **AESS CHALLENGE PART 2**
Cesar 3

[SPAX] PANEL DISCUSSION
SHAPING YOUR FUTURE: NAVIGATING CAREER PATHS IN A TECHNOLOGICALLY EVOLVING WORLD

- How technology, automation, and changing job markets are impacting the future of work
- How to plan and navigate a successful career path
- How different educational and training options impact career choices and opportunities
- Career Transition and Mid-life changes

OUSSAMA CHELLY - TAREK LAHDIRI - FATEN AYARI - SALAH GONTARA

Hannibal (main congress venue)

6:00 - 6:20 PM **BREAK**

WORKSHOPS

FUNDAMENTALS OF DEEP LEARNING 5

MOURAD ZERAI

Cesar 1

HTB CAPACITY BUILDING WORKSHOP

LWANGA HERBERT

Oliver

NOVEL SOLUTIONS FOR MICROWAVE SENSORS

MAURIZIO BOZZI

Hannibal 1

START FROM SCRATCH: BUILDING YOUR BUSINESS 101

MR.MAHMOUD IBRAHIM

Hannibal 2

UNLOCKING THE MEMBERSHIP POTENTIAL

MR.ERIC BERKOWIT

Hannibal 3

UNIQUE LEADERSHIP

MRS.NITA PATEL

Hannibal 4

UNLEASHING INNOVATION AND NAVIGATING DISRUPTION CONTENT

MR.SALAH DABBECH

Cesar 3

HOW TO BUILD YOUR GAME

MR.MAROUEN KHADHAR

Cesar 4

CONTAINERIZE THE MEAN STACK (KUBERNETES & DOCKER) PART 2

MR.MALEK EL AYEB

Cesar 6

PRESENTATION FOR THE IEEE REGION 8 HUMANITARIAN ACTIVITIES COMMITTEE

MRS.NOUR SBAOULJI

Cesar 7

3D PRINTING

MR.ZAKARIA BEN YOUNES

Cesar 8

IEEE IES AFRICAN CONTINENT CHAPTERS WORKSHOPS

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JOB FAIR

Medina Hall Espace Jardin

CHALLENGES

- **WIE CHALLENGE PART 3**

Jupiter

EMBS GLOBAL HEALTH FORUM:

- **EMBS CHALLENGE PART 2**

Cesar

PANEL DISCUSSION

APPLICATION OF BLOCKCHAIN IN FINANCIAL SECTOR

OMER FARUK OZKUL,RAZVAN MIHAI

Hannibal (main congress venue)

7:30 - 9:00 PM DINNER
Medina Restuarants

TALENT SHOW 9:00 - 10:00 PM
Hannibal (main congress venue)

10:00 - 11:00 PM AWARDS CEREMONY

SPECIAL OPENING WORD + VIDEO
CHALLENGE AWARDS
INDIVIDUAL AWARDS
TSYP AWARDS
FINALISTS ANNOUNCEMENT

Hannibal Congress room

PARTY / SOCIAL ACTIVITIES
11:00 PM - 12:00

Social Activities - booths hall

DAY 3 : 20 DECEMBER 2023

BREAKFAST 7:00 - 9:00 AM
Medina Restaurants

9:00 - 10:30 AM GLOBAL HEALTH FORUM

PLENARY TALKS

AWARDS CEREMONY 9:00 - 9:45 AM
SECTION AWARDS
SPC AWARDS
Hannibal Congress room

- Explainable AI in biomedical signal processing: Do the features of Deep Neural Networks agree with clinical guidelines?
- Data Handling in Brain-Computer Interfaces designed for Neurorehabilitation,
- Computational Neuroscience for Translational Innovations in Healthcare and Assistive Technologies

DISCUSSION PANEL 9:45 - 10:15 AM

Hannibal Congress room

Cesar

FINALIST PITCH & VOTING

10:15 - 11:30 AM

Hannibal Congress room

CLOSING CEREMONY 11:30AM - 12:30 PM

WINNER'S ANNOUNCEMENT CELEBRATION

Hannibal Congress room

GROUP PHOTO 12:30 - 1:00 PM

CHECK-OUT 1:00 - 2:00 PM

Medina Hall "Espace Jardin"

11:00AM - 12:30 PM **GLOBAL HEALTH FORUM**

PLENARY TALKS

- Translating AI for Precision Medicine
- Investigating the Effect of Perinatal Nicotine Exposure on Dopamine Neurons in VTA using miRNA Expression
- Integration of quantitative medical imaging, artificial intelligence, and 3D movement analysis - A data-driven approach

Cesar

12:30 - 2:00 PM **LUNCH**

2:00 - 3:00 PM CAREER PANEL