



# Emerging Trends & Applications in Computer Engineering

Open to all students and professionals, by professionals established in France & the USA.



May 7-8, 2023 | Auditorium | Chemin des crêtes (ex INES), Mostaganem +213 45 36 64 72 | admin.fseimoodle@univ-mosta.dz <https://www.univ-mosta.dz/fsei>

## Day 1 (May 7)

09:00 Opening Remarks

09:00  
09:50  
50min

The Life of a Project in Enterprise Digital Transformation

Strategic project management in digital transformations for the manufacturing industry



**Hakim Settache**

Manufacturing Technology Manager, Paris, France.  
Bachelor in Aeronautics, Polytechnique Montréal, Canada  
Computer Science Engineer, ESI Algiers

09:50  
10:40  
50min

Biometrics : Principles and Applications

Overview of biometrics and its applications for recognition and security.



**Larbi Boubchir**

Professor, Computer Science & Artificial Intelligence, Paris, France  
PhD Signal and Image Processing, Université de Normandie  
Computer Science Engineer, USTO Oran

10:40 - 11:10 Break

11:10  
12:00  
50min

Generative AI in Healthcare

Overview of the generative AI and its emerging applications in Healthcare



**Samir Benosman**

Director, Health System Strategy & Analytics, Chicago, USA  
PhD Biology, Université L. Pasteur, France  
Veterinary doctor, Ecole Nationale Vétérinaire, Algiers

12:00 Networking

## Day 2 (May 8)

09:00 Opening Remarks

09:00  
10:20  
80min

The Importance of Enterprise Service Buses (ESB)

Overview of the increasing importance of ESB in the evolution of Applications as a Service (AaaS) and cloud architectures



**Abdelmadjid Hentit**

Enterprise Resource Planning Senior Architect, France  
Computer Science Engineer, USTO Oran

10:20 - 10:40 Break

10:40  
11:50  
70min

Introduction to Network and Information System Security

Introduction to current enterprise security solutions and architectures



**Lahouari Saidat**

Head of Security Operations at BNP Paribas, France  
Computer Science Engineer, USTO Oran  
DEA Réseaux UVSQ Versailles

11:50  
13:00  
70min

5G Networks: overview and use cases

Introduction to 5G networks and use cases, 5G vs 4G, deployment options and security challenges, future evolutions



**Mohamed Salah Guerouache**

Customer Project Manager at Nokia, France  
Energy and nuclear engineer, INP Grenoble  
PhD energy and process engineering, Nantes

12:50 Networking



# Emerging Trends & Applications in Computer Engineering

## Abstracts

### The Life of a Project in Enterprise Digital Transformation

The digital transformation of companies occupies an important place in IT projects for the manufacturing industry. The life of these types of projects knows several classic stages but other stages driven by the global technological context. We will highlight in a general way, the current trends that define the life of these projects.

### Biometrics : Principles and Applications

Biometrics which concerns the use of machines to recognize individuals by means of their physical or behavioral traits has become an emerging technology and also a burgeoning research area due to the industrial and government needs for recognition and security concerns. It has also become a center of focus for many applications, such as authentication and identification in civil and forensic fields. This talk aims to provide an overview of biometrics and its applications.

### Generative AI in Healthcare

Healthcare is a system of multiple players, each having incentives that may or may not align with the others and most importantly, with patient needs. The use of data and analytics is enabling the transformation of healthcare to be more collaborative and the emergence of generative AI is likely to transform healthcare once again. We will discuss the potential applications and risks of Generative AI in healthcare.

### The Importance of Enterprise Service Buses (ESB)

ESBs (Enterprise Service Buses) were already essential in a multi-platform environment to communicate securely a company's applications, they have become even more so with Cloud applications: SaaS, the heterogeneity of data and protocols requires us to have these Middleware to ensure the security of exchanges.

### Introduction to Network and Information System Security

Securing a company's information system is a vital and strategic issue. The presentation introduces the basic concepts of network security and some key points to be considered when designing the internal network of a company or structure. Security solutions, architecture models, tools and best practices that help to protect the internal information system and protect against the threats will also be presented.

### 5G Networks : overview and use cases

5G networks are being rolled out around the world. What is 5G and what new use cases does it bring? Difference between 4G and 5G, deployment and transition from 4G to 5G. Security of 5G networks. After 5G, 5G Advanced and 6G