



An Intensive 5-Day Training Course

Artificial Intelligence (AI): Transforming Business with New Technologies

PROGRAMME SUMMARY

This unique EuroMaTech training course on Artificial Intelligence covers critical areas of business problem solving and will have above all a practical focus on decision-making.

The focus of this EuroMaTech training course is on the actions required to achieve effective design and introduction of suitable solutions. This will include detailed presentation and discussion of contemporary leading-edge approaches to strategic planning, showing how standard solutions should be modified to reflect intelligence which helps in saving time, money and effort. Moreover, there will be a daily workshop where participants will be guided to suggest, build and modify AI effective solutions.

Date	Venue	Fee(\$)
22 - 26 May 2022	Dubai	US\$ 4,950
03 - 07 Jul 2022	Cairo	US\$ 5,950
21 - 25 Aug 2022	Dubai	US\$ 4,950
18 - 22 Dec 2022	Dubai	US\$ 4,950

INTRODUCTION

Artificial Intelligence revolution is the development of computer systems that can perform tasks normally requiring human intelligence. When you encounter awe-inspiring technology, it can be challenging to see how you can apply it to your own business. You need a framework and language to ask deeper, sharper questions and find the right strategy.

This five-day Artificial Intelligence training course has been designed to develop the insight of the participants on Data Science. Participants on this EuroMaTech training course will learn how to build Artificial Intelligence, and to optimize the Artificial Intelligence to reach its maximum potential. EuroMaTech training modules will enable the participants to understand the theory of Artificial Intelligence and help them to understand how to solve real-world problems with Artificial Intelligence.

Participants attending Artificial Intelligence training course will develop the following competencies:

- Understanding of the value of Artificial Intelligence and different algorithms
- Knowledge on how to analyze daily business problems and create Artificial Intelligence solutions
- Deeper understanding of the latest innovative technologies and apply them to business

Virtual
learning service
available



TRAINING METHODOLOGY

This EuroMaTech Artificial Intelligence training course will combine presentations with instructor-guided interactive discussions between participants relating to their individual interests. Practical exercises, video material and case studies aiming at stimulating these discussions and providing maximum benefit to the participants will support the formal presentation sessions. Above all, the course leader will make extensive use of case examples and case studies of real-life issues.

In-house Training

EuroMaTech is capable of conducting this training programme exclusively for your delegates. Please e-mail us on inhouse@euromatech.ae for further information and/or to receive a comprehensive proposal.



Training Seminars & Conferences
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WHO SHOULD ATTEND

The target audience for this Artificial Intelligence training course includes business decision makers, marketing staff and professionals who are interested in learning robotics, biometrics, and other competing technologies. This EuroMaTech training course is also designed for people who are very keen about learning Artificial Intelligence and applying its awesome result and implementation.

WHO SHOULD ATTEND

The topics included in this EuroMaTech training course are related to Probability Theorem and Linear Algebra. Therefore, a basic knowledge of statistics and mathematics will be an added advantage for participants wanting to take this course.

PROGRAMME OBJECTIVES

By completing this EuroMaTech training course, the candidates will:

- Learn how Artificial Intelligence can be optimized so that maximum potential could be obtained
- Learn how the codes are generated and combined and what these code lines mean
- Understand the procedure of building the Artificial Intelligence
- Learn how to build Artificial Intelligence that is adaptable to any environment in real life
- Be able to identify potential areas of applications of Artificial Intelligence
- Obtain basic ideas and techniques in the design of intelligent computer systems
- Learn Statistical and decision-theoretic modelling paradigm
- Know how to build agents that exhibit reasoning and learning
- Be able to apply regression, classification, clustering, retrieval, recommender systems, and deep learning

QUALITY CERTIFICATIONS & ACCREDITATIONS



COURSE OUTLINE



Day 1

Overview of Artificial Intelligence

- Introduction to Artificial Intelligence
- Representation and Search: State Space Search
- State Space Search
- Graph theory and information of state space search
- Problem Solving through state space search
- DFS and BFS algorithms
- Backtracking algorithms
- Workshop 1: Building a state space of some problems

Day 2

Representation and Search: Heuristic Search

- Heuristic search overview
 - » Pure Heuristic Search
 - » A* Algorithm
 - » Iterative- Deepening A*
 - » Heuristic Path Algorithm
- Simple hill climbing
- Min Max algorithm
- Alpha beta pruning
- Workshop 2: Building an intelligent X-O gamer

Day 3

Logics and Reasoning

- Logic reasoning overview
- First Order Predicate (FOP)
- Modus ponens and Modus tollens
- Unification and deduction process
- Resolution
- Machine Learning
 - » Machine learning overview
 - » Clustering and classification algorithms
- Workshop 3: Building Search Intelligent Agents

Day 4

Decision Making

- Intelligent agent
 - » Generic agent
 - » Autonomous agent
 - » Reflex agent
- Goal based agent
- Utility based agent
 - » Decision theory
 - » Decision network
 - » Reinforcement learning
 - » Markov Decision Processes (MDP)
 - » Dynamic Decision Networks (DDN)
- Workshop 4: Building Search Intelligent Agents

Day 5

GAS, ANN and Fuzzy Logic

- Genetic Algorithms
 - » GAS and optimization
 - » Chromosome and problem coding
 - » Which problems are more suitable for Gas
 - » Why GAS has success story
- ANN
 - » NN background
 - » Why NN model is good
 - » When to use ANN
 - » Examples for ANN
 - » OCR as ANN
- Fuzzy Logic
 - » Fuzziness vs Probability
 - » Fuzzy set and membership
 - » Fuzzy controller
 - » Fuzzy speed control example
- Workshop 5: Building a fuzzy logic application

Artificial Intelligence (AI):

Transforming Business with New Technologies

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This fee is inclusive of instruction materials, documentation, lunch, coffee/tea breaks & snack. All Fees are subject to 5% Value Added Tax (VAT).*

Your Details

Name (Mr/Ms):.....
 Position:..... Organisation:.....
 Address:.....
 City / Country:
 Telephone: Email:

Mode Of Payment

- Please find enclosed a cheque made payable to EuroMaTech
- Please invoice me
- Please invoice my company as follows:

Contact Name:
 Company Name:
 Address:.....
 Email:

Documentation

High Quality material has been prepared by the Seminar Leader for distribution to delegates.

Certificates

A Certificate of Completion will be issued to those who attend & successfully complete the programme.

Schedule

Our Course timings commences at 08:30 and concludes at 14:00, followed by lunch on a daily basis.

Hotel Accommodation

EuroMaTech has negotiated special rates for a limited number of rooms in the hotel. Early registration will help to secure a room at the reduced rate.

Registration & Payment

Please complete the registration form on this page & return it to us indicating your preferred mode of payment. For Further Information, email us at info@euromatech.ae.

Cancellation Policy

Request for seminar cancellation must be made in writing & received at EuroMaTech three weeks prior to the seminar date. A U.S.\$250/- processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.

Disclaimer

EuroMaTech reserves the right to alter the content, location of the Seminar, or the identity of the speakers in case of events beyond our control.

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*VAT Announcement: The Government of UAE have introduced Value Added Tax (VAT) on goods and services from 01-January-2018. In compliance with the legislation issued by the UAE Government, we will be applying a 5% VAT on the fees for all our programs and services offered from January 2018 as applicable and stipulated in the FTA circulars.