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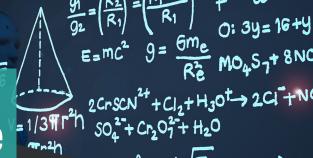
Artificial Intelligence

Module 1 : Al to Solve Search Problems

Tuesdays & Thursdays from the 7th of May 2019 till the 13th of June 2019 5:00 PM to 8:30 PM

USJ Liban, Campus des Sciences et des Technologies (CST) Faculté d'ingénierie : ESIB - INCI

Presentation of artificial intelligence as a coherent body of ideas and methods to acquaint the audience with the basic programs in the field. Participants will explore this through problemsolving paradigms, search and control methods and adversarial search problems.





Key benefits:

solve search and planning problems with and without adversary.



Learning outcomes:

- Implement uninformed search BFS, DFS and UCS
- Use informed search to improve previous algorithms (A*)
- Generalize your algorithms to games or situations where you have an adversary.











https://www.usj.edu.lb/fc/inscription.php?cursus=250





Content

Uninformed and Informed search

- BFS
- DFS
- UCS
- A*

Adversarial Search

- Minimax
- Expecimax
- Expectiminimax



Tools

Python



Teaching method:

- Interactive methods: Slide presentations, programming examples.
- Lab sessions to implement all algorithms

Dr. George E. Sakr received the BE degree (with distinction) in electrical and electronics engineering from Lebanese University, Roumieh, in 2005, the MS degree in networking and telecommunications from the joint program between the Lebanese University and St. Joseph University of Beirut in 2007 and the PhD degree in Machine Learning from the American University of Beirut in 2011. Between 2011 and 2015 George was a Lecturer at AUB and the Lebanese American University as well as a post-doctoral fellow at the Medical Center of the American University of Beirut where he worked on applying machine learning for precision medicine. Since 2015, George has been an assistant professor at St Joseph University of Beirut. His research interests include artificial intelligence, machine learning, human machine interfacing, and application of machine learning for precision medicine. He is a member of the IEEE since 2008. He has more than 20 journal and conference publications in the domain of machine learning and heart healthcare.

| Target audiences : Alumni | Professionals | Main language of the training : English | Approximate cost per participant : 990\$ | Credit equivalence: 4 credits of Masters

| Minimum – Maximum number of participants : 15-25

Contact: Office of Regional Development and External Programs – Pr Fadi el Hage

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BMB Smart Tech Education

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