

An Introduction to the Theory of Computation By Hossein Rahmani

Slides originally by Book(s) Resources



Introduction

- Lecturer:
 - Hossein Rahmani
 - Assistant Professor in IUST
 - Research Fellow in DKE (Maastricht University)
 - Research Area: Knowledge Discovery, Data Analysis, Data/Graph Mining
 - More Information:
 - http://webpages.iust.ac.ir/h_rahmani/



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Dr. Hossein Rahmani is an assistant professor at [Computer Engineering Department, Iran University of Science and Technology, Tehran, Iran](#). At the same time, He is also Research Fellow at [Department of Knowledge Engineering, Maastricht University, Maastricht, The Netherlands](#).

Related Links:

- [Explore Your Unconscious Mind \(Tarvajah\)](#)
- [Cytoscape Tutorial \(In Persian\)](#)
- [Gephi Tutorial \(In Persian\)](#)
- [Cultural Activities in the Computer Engineering Department](#)
- [Presentation Tutorial](#)

His main area of interests are:

- Data/Text/Graph Mining
- Big Data Analysis
- Entity Resolution
- Bio-Informatics



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Introduction



• Teaching Assistants

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Grading Policy

(Might varies in these days)

- We are all in the Same Side 😊
- Quiz: 1-4
 - Random Quizzes: up to 10 or even more!
- Midterm(s): 3-8 points
- Home-works/Projects: 2-4 points
- Final exam: 8-12 points
- Cultural Activity: 1-2 points

Quiz Time

- Work in Group Session.
- Make the group of 2
- Discuss the problems
- Explore the solution space
 - Open book
 - Even discuss with me
- Talk and Participate!
 - No Divide and Conquer



Cultural Activity 1



- Buy, Wrap, Present a flower to
your
mother/father/grandmothers/grandfathers
No others!
- Take a photo
 - Not Included: face/Personal info
 - Included: Flower
- Upload in LMS
- Deadline: Aban 15th,
- Grad: 0.5 point

Cultural Activity!



Cultural Activity 2



- Think about the best book you have Ever read.
- Buy and give it as a present to one of the student in the class (Randomly).
 - Content (Compulsory): One paragraph, describing your understanding about this book. No Copy and Paste please.
 - Deadline: Azar 15th, Will not be extended.
- Grad: 0.5 point

Cultural Activity 3

- Gather garbage from nature
- Take a photo
 - Included: Face/Personal info
 - Included: Gathered garbage
 - Deadline: Day15th,
 - Upload in LMS
- Grad: 0.5 point

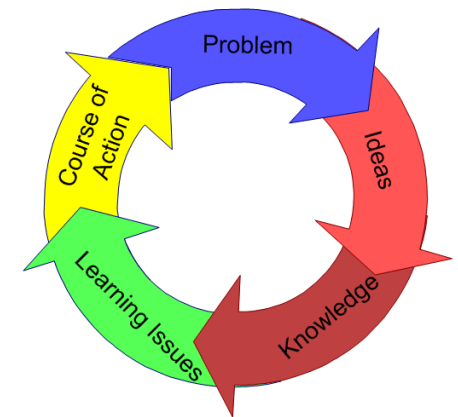


Problem Based Learning (PBL)



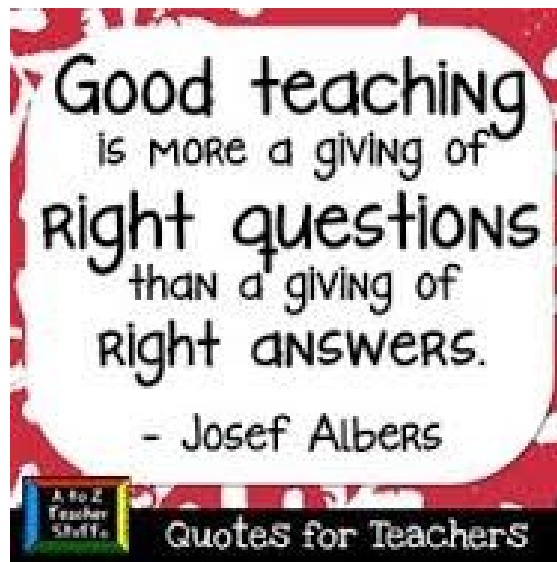
- Traditional Teaching
 - Professor -> slides/Blackboard
 - Teaching Assistance-> Solve practical
- PBL
 - More Student-Centered
 - Professor proposes a problem
 - Students explore the solution space
 - Conditions:
 - Number of students

Problem-Based Learning Process



Problem Based Learning (PBL)

- We follow PBL, as much as it is possible
- Do not Expect us and specially TA's to solve the problems in the whiteboard.
- Previous Terms were mostly happy with this approach



To Care or not to Care!

