

# 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/](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 \(Tarvajeh\)](#)
- [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



**Contact**

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# Introduction

- Teaching Assistants
  - Female
    - Ghazaleh Bakhtiari
    - Fatemeh Tavakkoli
    - Mahsa meimary
    - Farnaz Hassani
  - Male
    - Milad Ebrahimi
    - Mahdi Sheibani
    - AmirHossein Amiri
    - Amir Saeed Ranjbar
    - Bardia Karimi



# Grading Policy

- 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
- Send an email
  - Subject: Cultural Activity\_DS\_Flower\_FullName\_STDID
    - No Other subjects are examined!
  - To: h\_rahmani@iust.ac.ir
  - Deadline: Aban 15<sup>th</sup>, Will not be extended.
- Grad: 0.5 point



# Cultural Activity!





# Cultural Activity 2



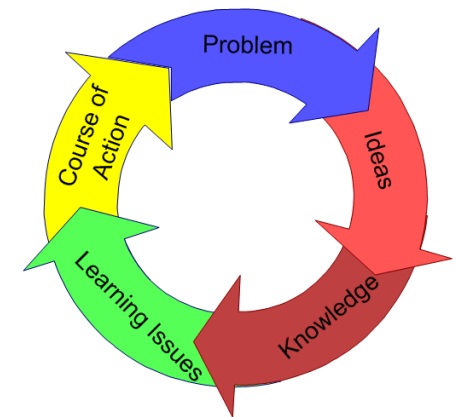
- Think about the best book you have Ever read.
- Buy and give it as a present to one of the student in the class (Randomly).
  - Content (Compulsory): One paragraph, describing your understanding about this book. No Copy and Paste please.
  - Deadline: Azar 15<sup>th</sup>, Will not be extended.
- Grad: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

# Problem Based Learning (PBL)



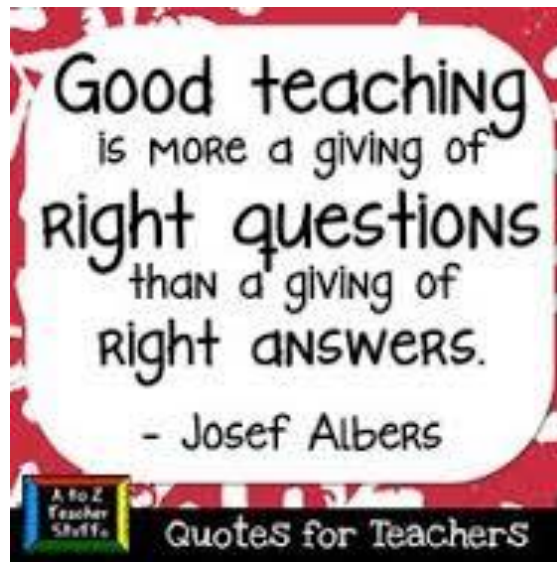
- Traditional Teaching
  - Professor -> slides/Blackboard
  - Teaching Assistance-> Solve practical
- PBL
  - More Student-Centered
  - Professor proposes a problem
  - Students explore the solution space
  - Conditions:
    - Number of students

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!

