



## **Curriculum Vitae**

*Alireza Arjomand Zadeh*

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# Alireza Arjomand Zadeh

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## PERSONAL INFORMATION

- **First Name:** Alireza
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## OCCUPATION

- **2016 – present:** Assistant Professor of Chemical Engineering, Shahrood university of Technology.

## EDUCATION

- **2009-2015:** PhD in chemical engineering, Design, Simulation and Control.  
**Thesis:** Real-Time Optimization and Self-Optimizing Control in Layers of Plantwide Control Structure of a Process Plant.
- **2003-2006:** M.S. in chemical engineering, Process Design
- **1998-2003:** B.S. in chemical engineering, Gas Industry. (rank 3 among 43 student)

## EXPERIENCES

- **2007 - 2008:** Researcher in Khorasan Industry, Energy systems.
- **2006:** Working in the laboratory of process control in the Ferdowsi University of Mashhad.

## MEMBERSHIPS

Member of American Institute of Chemical Engineers.

Member of Iranian Association of Chemical Engineering

## LANGUAGE

- **French:** DELF A2
- **English:** TELP certificate.

## Technical Workshop Conduction

- **Title:** “ Pinch Analysis with Aspen Energy Analyzer”, 2016  
**Venue:** Kharazmi Computing Center, Shahrood University of Thechnology  
**Duration:** 8 hours
- **Title:** “ Process Simulation with Aspen Plus”, 2017  
**Venue:** Kharazmi Computing Center, Shahrood University of Thechnology  
**Duration:** 8 hours

## RESEARCH SUMMARY

**Scope:** Process System Engineering with the main focus on design, optimal operation and control of processes with specialty in natural gas plant. The final goal in this area is to provide solution for natural gas plant to operate in a safe, reliable, and economical condition.

### **Research project**

- **2014:** Capacity revamp project of BidBoland gas refinery in Iran (The first and one of the largest gas refinery in the middle east).

### **Book**

- “An Introduction to Controllability Analysis of Extractive Distillation”, 2015

### **Patent**

- “Natural Gas Dehydration Process with Adsorbent Safeguard”, 2016 (With scientific certification from intellectual property office of Ferdowsi University of Mashhad)

## **JOURNAL PUBLICATIONS:**

- E.B. Rezaei, M. Farzeneh-Gord, A. Arjomand, M. Jannatabadi, Mohammad Hossein Ahmadi, W.M. Yan, “**Thermo–Economic Evaluation of Producing Liquefied Natural Gas and Natural Gas Liquids from Flare Gases**” *Energies*, 11(7), 2018.
- A. Arjomand “**Optimal operation of a DWC by Self-Optimizing Control: Active Vapor Split Approach**” Accepted for publication in Iranian Journal of Chemistry and Chemical Engineering, 2018.
- Arjomand A., Fanaei M.A., “**Optimal Operation of a Divided-Wall Column with Local Operating Condition Changes**”, *Scientia Iranica*, 22(6), 2015.
- Arjomand A., Fanaei M.A., “**Optimal Operation of a Three-Product Dividing-Wall Column with Self-Optimizing Control Structure Design**”, Iranian Journal of Chemistry and Chemical Engineering, 34, 2015.
- Shahraki F., Fanaei M.A., Arjomand A., “**Adaptive System Control with PID Neural Networks**”, *Chemical Engineering Transactions*, 17, 2009.

