

## Curriculum Vitae



### **Roja Parvizi moghadam**

Date of birth: 1985

Place of birth: Amol / Iran

Nationality: Iranian

Marital: Married

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### Education:

- **Ph.D** in Chemical Engineering (Control Process) from Sistan & Bluchestan University, Zahedan, Iran, (2014-2019). With G.P.A of **19.35 / 20**.

Ph.D thesis: *"Design of data-based soft sensor Based on time-variant parameters (TVP) and dynamic model based on local instrumental variable (LIV) for online control of distillation column product quality"*

- **M.Sc** in Chemical Engineering (Process Design) from Sistan & Bluchestan University, Zahedan, Iran, (2008-2010). With G.P.A of **17.35 / 20**.

M.Sc thesis: *"Wind velocity and heat transfer effect on dispersion of dense gas, by CFD"*

- **B.Sc** in Chemical Engineering (Process Design) from Mazandaran University, Babol, Iran, (2003-2007). With G.P.A of **15.36 / 20**.

B.Sc thesis: *"Methods of enhancement oil recovery "*

- **Diploma** of science and math from school of astute student, Amol, Iran. With G.P.A of **19.03 / 20**.

### Skills & Interests:

- System Identification
- Modeling and optimization processes
- Design of data-driven soft sensor
- Process monitoring

- Data-driven modeling
- Analytical skills on large-scale datasets
- CAPTAIN Toolbox
- Applying sensitivity analysis for preprocessing control of process units
- Applying prediction and estimation algorithms for process control
- Integration of processes
- Comsol multiphysics
- Modeling of porous media
- Modeling by CFD
- MATLAB & Simulink
- Consequence analysis
- Machine learning
- Python
- Risk management
- Hazop
- HSE
- Aspen Hysys
- English language

**Publications:**

- Parvizi Moghadam, R., Shahraki, F., Sadeghi, J., (2020), *Soft sensor model for monitoring and online control based on a dynamic model and local instrumental variable technique*". (Under Review).
- Parvizi Moghadam, R., Sadeghi, J., Shahraki, F., (2019), *"DARX Model Optimization for Data-based Soft Sensor of Industrial Debutanizer"*, Optimal Control, Applications and Methods, Vol 41, No. 2, 381-394.
- Parvizi Moghadam, R., Shahraki, F., Sadeghi, J., (2018), *"Online Monitoring for Industrial Processes Quality Control Using Time Varying Parameter Model"*, IJE Transactions A: Basics, Vol. 31, No. 4, 372-379.
- Parvizi Moghadam, R., Shahraki, F., Sadeghi, J., (2018), *"Data-Based Soft Sensor for Product Quality prediction in Processes Using Time Varying Parameter Model"*, The 10th International Chemical Engineering Congress & Exhibition (IChEC), Isfahan, Iran, 6-10 May.

- Arezuo Ghadi, Roja Parvizi Moghaddam, Majid Taghizadeh Mazandarani, (2012), "*CFD Modelling of Increase Heat Transfer in Tubes by Wire Coil Inserts*", World Applied Sciences Journal, Vol. 18, No. 10, 1443-1448.
- Parvizi Moghaddam, R., Shahraki, F., Kashi, E., (2010), "*CFX Ability Assessment Compared with ALOHA and PANACHE, in Simulation of KitFox Field Experiment*", 13th Iranian National Chemical Engineering Congress & 1st International Regional Chemical and Petroleum Engineering, Kermanshah, Iran.
- Parvizi Moghaddam, R., Shahraki, F., Kashi, E., (2010), "*Investigation of the effect of wind speed and heat transfer on the heavy gases distribution by computational fluid dynamics*", 4th Conference and Specialized Environmental Exhibition, University of Tehran, Iran.
- Ghadi, A., Parvizi Moghadm, R., (2011), "*CFD modeling of increase heat transfer in tubes by wire coil inserts*", The 7th International Chemical Engineering Congress and Exhibition (IChEC), Kish Island, Iran.
- Parvizi Moghaddam, R., Shahraki, F., Kashi, E., (2010), "*Velocity and heat transfer effects on dispersion of dense gas, by CFD*", Acceptance for oral presentation, International Conference on Environment (ICENV), 13<sup>th</sup>-15<sup>th</sup> December, Penang, Malaysia.

#### Referees:

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