

Profile

- Sex : Male
- Nationality :Iran
- Email: E_taheri@modares.ac.ir
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Education

PhD Geotechnical engineering, KNT University, PhD. thesis: Multiscale Modeling of Oil Transport in Deformable Porous Media.

MSc, 2006, Civil Eng., University of Tehran, Iran.

Honors and Awards

- Rank of genius student in University of Tehran in Ms degree
- Exceptional talent student in PhD degree

Research Interest

- Multiscale Modeling
- Petroleum Reservoir Modeling
- Plasticity Modeling

PUBLICATION(Journal Paper)

S. A. Ghoreishian Amiri, **E. Taheri**, A.A. Lavasan, A hybrid finite element model for non-isothermal two-phase flow in deformable porous media, Computers and Geotechnics, 135 2021, 104199.

S. A. Sadrnejad, H. Ghasemzadeh, **E. Taheri**, M³GM Application in petroleum reservoir simulation. Journal of Petroleum Science and Technology 2017, 7(3), 33-46.

E. Taheri, S. A. Sadrnejad, H. Ghasemzadeh, Multiscale Geomechanical Model in Deformable Porous Media with Surrounding Rock Effects. . International Journal of Multiscale Computational Engineering, 13, 6 (2015), 533–559.

S. A. Sadrnejad, H. Ghasemzadeh, **E. Taheri**, Multiscale Multiphysic Mixed Geomechanical

Model in Deformable Porous Media. International Journal of Multiscale Computational Engineering, 12, 6 (2014), 529–547.

R. N. Yong, **E. Taheri**, Ah .Khodadadi, Ab. Khodadadi. 2007, Evaluation of Remediation Methods for Soils Contaminated with Benzo[a]Pyrene, , Int. J. Environ. Res., 1(4): 341-346.

S. Gitipour, **E. Taheri**, N. Heidarzadeh, S. Givehchi, 2008, Assessment of Clean Due Levels Due to Inhalation of Polyaromatic Hydrocarbons in contaminated Soils. Asian Journal of Chemistry 20(2):1599-1608.

S. Gitipour, M. Mohebi, **E. Taheri**, 2011, Evaluation of Carcinogenic Risk Due to Accidental Ingestion of Pahs in Contaminated Soils, CLEAN-soil, air, water, Volume 39, Issue 9, pages 820–826, September 2011.

E. Taheri. S. Gitipour, 2009, Assessment of PAHs compound clean up levels regarding groundwater preservation south of Tehran oil refinery. Iran water resources research, Vol. 5-No: 1, 35-43.

S. Gitipour, **E. Taheri**, , S. Givehchi, 2007, Assessment of clean up level due to inhalation of naphthalene and fluoranthene in contaminated soils at the south of Tehran oil refinery. J. Env. Sci, Tech, Vol 9, No. 3, 157-166.

M. A. abduli, T. Nasrabadi, **E. Taheri**, Gholamali Hoshyaripour, Recognition of industrial wastes production sources and recycling procedures in Caspian region. J. Env. Sci, Tech, Vol 11, No. 3, 227-236.

PUBLICATION(Confrence Paper)

E. Taheri, Application of M^3 GMSR in reservoir simulation, National Conference of Modeling Mining Engineering, 2018, Tehran, Iran.

S. I. Moghadam, E. Taheri, M. Ahmadi, Application of Unified Clay and Sand Cyclic Model in the Simulation of Tunneling, National Conference of Modeling Mining Engineering, , 2018, Tehran, Iran.

E. Taheri, Multiscale Modeling of Fluid Flow and Rock Deformation in Underground Petroleum Reservoir, 2017, 12th Iranian and 3rd regional tunneling conference

S. A. Sadrnejad, H. Ghasemzadeh, **E. Taheri**, M^3 GM Application in petroleum reservoir simulation. 1st gemochanic national conference, Tehran, Iran, 2015.

S. A. Sadrnejad, H. Ghasemzadeh, **E. Taheri**, Multiscale mesh analysis of water injection in heterogeneous porous media. 1st National Conference on Petroleum Geomechanics, Tehran, May, 12-14, 2015.

S. A. Sadrnejad , H. Ghasemzadeh , **E. Taheri**, 2013, Multiscale advanced features in modeling oil transport in porous media, 21st annual international conferences on mechanical engineering, 7-9 may 2013.

E. Taheri, S. A. Sadrnejad, 2010, Prediction of Fracture Direction in Soil by Implementation of Multiplane Framework, 4th International Conference on Geotechnical Engineering and Soil Mechanics.

Work Experience

Tarbiat Modares University(2016- Present)

Official webpage

http://www.modares.ac.ir/~e_taheri

Ms. Courses:

Numerical Method in Geomechanic
Advanced Mathematic
Steel and concrete structure design in tunnel

PhD. Courses:

Advanced numerical method in Geomechanic

Ms. Thesis supervisor

- Developing cyclic soil model to evaluate deformation of underground excavations
- Combined SPH-DEM modeling of solid-fluid interaction
- Investigation and evaluation of pipe splitting operations in clay and sand soil
- Numerical modeling of liquefaction effect on underground structure with different methods of improvement
- Multiphase modeling of petroleum reservoir considering plastic deformations
- Evaluating the effect of stone columns reinforced with geotextile on liquefaction
- Implementation of unified dynamic plasticity model enhanced with the bounding surface to simulate underground spaces

- Constitutive modeling of unsaturated soil enhanced with subloading surface plasticity
- Evaluation of the effective factors on underground deformation during pipe jacking operation

Ph.D. Thesis supervisor

- Unified plasticity model enhanced with Microplane to simulate inherent and induced Anisotropy

SAMANDIS Company (2010-Present)

Current position: Member of the Board

Engineering, procurement and Commissioning of the Khest Oil field, **Project Manager**

Tehran Oil Refinery wastewater treatment plant, design, procurement & construction, **Project Manager**

Tehran Oil Refinery 650 Pond steam line project, design, procurement & construction, **Project Manager**

Communications Regulatory Authority of The I.R of Iran, **Project Manager**

Tehran governmental building, **Head of Construction**

Early Production of Northern Hendijan Oil Field (HD6) (EPC), **Project Coordinator**

Industrial waste water treatment renovation of three islands (Kharg ,Lavan, Sirri, fields & related platforms) (EPC), **Project Coordinator**

Industrial waste water treatment renovation of Bahregan District & related platforms (EPC), **Project Coordinator**

HIRGAN ENERGY COMPANY (2008-2010)

Industrial waste water treatment renovation of three islands (Kharg ,Lavan, Sirri fields & related platforms) (EPC), **Lead Engineer**

(IGAT-X), 4th Pataveh Gas Compressor Station (E), **Senior Engineer**

Industrial waste water treatment renovation of Bahregan District & related platforms (EPC), **Lead Engineer**

Kharg Onshore processing plants de-bottlenecking and FEED package preparation, senior engineer

Conceptual & Basic Engineering for new gas lifting facilities for Dorood field,
Senior Engineer

Chemical Injection Design for NGL 900 , 1000, 1200 and 1300(E), **Senior Engineer**

IRAN ITOK GROUP COMPANY (2006-2008)

(IGAT- IV) Gas compressor station, 4staion: Abadeh, Fasa, Arsanjan, Safashahr (EPC) ,
Lead Engineer

Gas compressor station, Supervision of constriction for Shahid Mostafavi & shahid Mohammadi Gas Compressor Stations (MC), **Lead Engineer**

BINA CONSULTANT ENGINEER (2004-2006)

Tabriz-Maindoab pipeline facilities development project (MC), **Senior Engineer**

Aredbil New oil depot (MC), **Senior Engineer**

(IGAT- IV) four station: Khonj, Kheirgoo, Khavaran, Jahrom (EPC), **Junior Engineer**

Working Skills

Project and Engineering Management

Design and provide detail drawing of equipment foundations (suction scrubber, fuel gas scrubber, fuel gas filter, generator foundation, transformer foundation, etc)

Design and provide detail drawing of extension of platform deck and CFU support on offshore plat forms (Aboozar AA, AB, AC; Ilam, Nasr, Soroush, Norouz)

Structural Design and provides detail drawing of blast proof building (electrical and control building)

Structural design and provide detail drawing of shelters and buildings (workshop, ware house, oil drum, gas engine generator building, air compressor building, etc)

Design and provide detail drawing of pipe rack and pipe supports

Design and provide detail drawing of pipe sleepers (main sleeper, special sleeper)

Design and provide drawing of site civil layout, foundation location layout, ...

EXPERT SOFTWARES

SAP2000	ETABS2000	Sacks(Intermediate)
SAFE2000	XSTEEL	PDMS(Intermediate)

PROGRAMMING SKILLS

VISUAL FORTRAN	VISUAL BASIC
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