Dr Hossein Hosseini

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SUMMARY

My research and teaching are focused on systems thinking and modelling approaches to analyse complex socio-technical and socio-environmental problems. I have advanced systems modelling in theory, technique, and application in the past 14 years through several research and consulting projects in academia, industry, and the public sector. My main research and work experiences include national to international problems, and I have considerable experience in energy, public health, social problems, urban management, transport, and business-level issues. I use simulation models to understand the drivers of system change and to explore system transitions to the future with bespoke computational and participatory methods. I use such interdisciplinary integrations to inform policy interventions that can help achieve targets under future scenarios.

Now, I am seeking a new challenge to enjoy studying and learning from and can commence in a new role as soon as required with short notice.

Academic Fields of Interest

- Systems modelling and policy research in public and private sectors (including health, energy, transport, urban management, social security, etc.)
- System Dynamics modelling
- Strategy and policy analysis
- Economic evaluation of projects/programs

Skills and Tools

- Systems modelling & simulation
  - System Dynamics modelling and simulation
  - Group model building
  - Vensim & Stella
- Data analysis and visualization
  - R studio
  - Eviews
  - Curvefit Professional
  - Microsoft Excel & Power BI
  - Business performance dashboard making
- Strategy analysis & planning
  - Strategic planning & strategy execution
  - Strategic performance monitoring and improvement via Balanced Scorecard
  - Group meeting facilitator
- Economic evaluation and feasibility analysis
  - COMFAR / Excel
- Energy systems analysis & modelling
  - RETScreen, Leap & MESSAGE
- General management skills
  - Stakeholder management
  - Teamwork and leadership
  - Problem-solver and result-oriented
  - Project management (Microsoft Project, Jira & Producteev)

EDUCATION

2016
PhD in Industrial Engineering (Socio-Economic Systems Engineering), UNIVERSITY OF TEHRAN
- Dissertation: A Model to Enhance Iran's National Interests by the Oil Supply System in the World Market (Systems Approach)

2010
MSc in Industrial Engineering (Socio-Economic Systems Engineering), IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
- Thesis: Examining Iran's Crude Oil Production Peak and Evaluating its Consequences

2006
BSc IN APPLIED MATHEMATICS, UNIVERSITY OF ARAK

RESEARCH & TEACHING EXPERIENCE

• JOURNAL PAPERS

[1] **Seyed Hossein Hosseini**, N. Ho, S. Huntley, et. al., 2025, "Examining the Impact of Youth Mental Health Services Capacity Growth Trajectories and Digital Interventions on Youth Mental Health Outcomes: a System Dynamics Modelling Analysis". Journal of Medical Internet Research. **(IF: 5.8)**

[2] **Seyed Hossein Hosseini**, N. Ho, S. Huntley, et. al., 2025, "Modeled estimates of the health outcomes and economic value of improving the social determinants of mental health". Nature Mental Health. **(IF: 8.7)**

[3] J-A Occhipinti, N Ho, P Crosland, S Huntley, W Hawkins, A Connell, J Piccone, S Piper, **Seyed Hossein Hosseini**, et. al., 2025, "Beyond capacity limits: can social cohesion offset the impact of service constraints on youth mental health?". European Psychiatry. **(IF: 6.7)**

[4] **Seyed Hossein Hosseini**, Elnaz Irannezhad, Taha Hossein Rashidi, 2025, "Exploring the dynamics of the transport system energy consumption in Australia – A preliminary systems modelling effort". Case Studies on Transport Policy. **(IF: 3.3 – ABDC rank: C)**

[5] P. Crosland, D.A. Marshall, **Seyed Hossein Hosseini**, et. al., 2024, "Incorporating Complexity and System Dynamics into Economic Modelling for Mental Health Policy and Planning". PharmacoEconomics. **(IF: 4.4 – ABDC rank: A)**

[6] C. Vacher, N. Ho, A. Skinner, P. Crosland, **Seyed Hossein Hosseini**, et. al., 2024, "Reducing mental health emergency visits: population-level strategies from participatory modelling". BMC Psychiatry. **(IF: 3.6)**

[7] Ali Akbar Haddadi Harandi, Changiz Valmohammadi, **Seyed Hossein Hosseini**, 2024, "*Enhancing the Intellectual Capital of Research and Development Centres using Business Intelligence: A System Dynamics Approach*", Systems Research and Behavioral Science, Wiley. **(IF: 4.3 – ABDC rank: A)**

[8] P. Crosland, N. Ho, **Seyed Hossein Hosseini**, et. al., 2023, "*Cost-effectiveness of system-level mental health strategies for young people in the Australian Capital Territory: a dynamic simulation modelling study*", The Lancet Psychiatry, Elsevier. **(IF: 30.8)**

[9] Seyedehfatemeh Golrizgashti, **SeyedHossein Hosseini**, Qingyun Zhu, Joseph Sarkis, 2023, "*Evaluating supply chain dynamics in the presence of product deletion*", International Journal of Production Economics, Elsevier. **(IF: 10.0 – ABDC rank: A)**

[10] E. Moallemi, **Seyed Hossein Hosseini**, S. Eker, et. al., 2022, "*Eight archetypes of Sustainable Development Goal (SDG) synergies and trade-offs*", Earth's Future, Wiley. **(IF: 11.5)**

[11] Fateme Dianat, Vahid Khodakarami, **Seyed Hossein Hosseini**, Hamed Shakouri G, 2022, *"Combining game theory concepts and system dynamics for evaluating renewable electricity development in fossil-fuel-rich countries in the Middle East and North Africa"*, Renewable Energy, Elsevier. **(IF: 9.1)**

[12] Fateme Dianat, Vahid Khodakarami, Hamed Shakouri Ganjavi, **SeyedHossein Hosseini**, 2022, "*Sustainability Assessment of Electricity Generation Development under the Implementation of Support Policies with Endogenous Financial Resources Using a Hybrid Decision Support Model*", Mathematical Problems in Engineering, Wiley.

[13] Ali Hosseini, **Seyed Hossein Hosseini**. "*A System Dynamics Approach to Sustainable Business Model Transformation: A Manufacturing Case*". Journal of Systems Thinking in Practice.

[14] Mohammad Asghari, Fatemeh Rostambeygi, **Seyed Hossein Hosseini**, Mohammad Motamedi, 2022, "*An Analysis of Influential Factors on Procurement Cycle Time Using a System Dynamics Approach"*, Journal of Systems Thinking in Practice.

[15] **Seyed Hossein Hosseini**, Seyed Maziar Alavi, Ali Hosseini, Abolfazl Zare Mehrjardi, 2022, "*Investigating the mutual effects of mobile phone use and civic culture: A systems approach*", Psychological Research on Urban Society.

[16] Seyed Maziar Alavi, **Seyed Hossein Hosseini**, Ali Hosseini, Mohamad Samaei, 2022, "*A survey of the mutual effects of mobile phone usage on the citizenship culture in developing countries*" Journal of Social Studies (JSS).

[17] **Seyed Hossein Hosseini**, Hamed Shakouri G., Aliyeh Kazemi, 2021, *"Oil Price Future regarding Unconventional Oil Production and its Near-Term Deployment: A System Dynamics Approach"*, ENERGY, Elsevier. **(IF: 9.4)**

[18] Vahid Hajiebrahimi Farashah, Zeinab Sazvar, **Seyed Hossein Hosseini**, 2021, *"A Dynamic Model to Formulate Effective Capacity Expansion Policies in Iranian Petrochemical Industry to Complete the Value Chain"*, Energy Policy, Elsevier. *(IF: 9.2 – ABDC rank: A)*

[19] Shahdad Eshaghpour, **Seyed Hossein Hosseini**, Seyed Amir Aghaei, Mohammad Saeed Seif, 2020, *"A hybrid systems approach to determine effective factors on the growth of marine industries in developing countries"*, *Int. J. Business and Systems Research*, Inderscience Publishers.

[20] Vahid Hajiebrahimi Farashah, **Seyed Hossein Hosseini**, Zeinab Sazvar, Hamed Shakouri Ganjavi, 2020, *"An Investigation on the Petrochemical Industry Development in Iran: a System Dynamics Approach"*, Int. J. Energy Technology and Policy, Inderscience Publishers.

[21] **Seyed Hossein Hosseini**, Hamed Shakouri G., Aliyeh Kazemi, et. al., 2020, *"A system dynamics investigation of project portfolio management evolution in the energy sector: Case study: an Iranian independent power producer"*, Kybernetes, Emerald. (**IF: 2.9**).

[22] Hossein Kiani, **Seyed Hossein Hosseini**, Farshid Abdi, 2018, *"A Model to Investigate the Effect of Work Ethic Culture on Dynamics of Rework in Management of Projects"*, *Interdisciplinary Description of Complex Systems (INDECS)*.

[23] Seyed Amir Aghaie, **Seyed Hossein Hosseini**, Mohammad Saeed Seif, Navid Mohammadi, 2017, *"Recognition of Unsuccessful Development of Iran's Marine Industries Through an Analysis of Current and Ideal Situation of the Industries' Value Chain"*, Roshd-e-Fanavari journal. (In Farsi).

[24] **Seyed Hossein Hosseini**, Hamed Shakouri G., 2016, *"A Study on the Future of Unconventional Oil Development under Different Oil Price Scenarios: a System Dynamics Approach"*, *Energy Policy*, Elsevier. *(IF: 9.2 – ABDC rank: A)*.

[25] **Seyed Hossein Hosseini**, Hamed Shakouri Ganjavi, Adel Peighami, 2016, "*A Conceptual Framework for the Oil Market Dynamics: A Systems Approach*", Energy Exploration & Exploitation, SAGE Publishing. *(IF: 1.6).*

[26] Naser BagheriMoghadam, Majid Samsami, **Seyed Hossein Hosseini**, Mahdi Sahafzadeh, 2015, "*Using BSC to Transform Corporate-level Goals into Project Portfolio Strategies*", Int. J. of Project Organization and Management (IJPOM), Inderscience Publishers.

[27] **Seyed Hossein Hosseini**, Hamed Shakouri Ganjavi, Behdad Kiani, et. al., 2014, "*Examination of Iran's Crude Oil Production Peak and Evaluating the Consequences: a System Dynamics Approach*", Energy Exploration & Exploitation, SAGE Publishing. *(IF: 1.6).*

[28] Hamed Rafiei, Masoud Rabbani, **Seyed Hossein Hosseini**, 2014, *"Capacity Coordination under Demand Uncertainty in a Hybrid Make-To-Stock/Make-To-Order Environment: A System Dynamics Approach"*. Scientia Iranica, Transactions E: Industrial Engineering. *(IF: 1.9).*

[29] Babak Saleck Pay, **Seyed Hossein Hosseini**, Hamed Shakouri Ganjavi, 2013, "*Why do Students use Virtual Social Networks in Iran: a System Approach*", Interdisciplinary Description of Complex Systems *(INDECS)*.

[30] Naser BagheriMoghadam, Hessam Nedaei, Mahdi Sahafzadeh, **Seyed Hossein Hosseini**, 2013, "*A Modified Strategy Formulation Model for Management Technologies in Holding Companies: a Case Study of an Iranian Conglomerate*", Int. J. Technology Intelligence and Planning, Inderscience Publishers.

[31] Naser BagheriMoghadam, **Seyed Hossein Hosseini**, Mahdi SahafZadeh, 2012, "*An Analysis of the Industry-Government-University Relationships in Iran's Power Sector: A Benchmarking Approach*", Technology in Society, Elsevier. *(IF: 12.5 – ABDC rank: C).*

[32] Naser BagheriMoghadam, Hessam Nedaei, Mahdi Sahafzadeh, **Seyed Hossein Hosseini**, 2011, *"A Comprehensive Framework for Technologies of Management (TOM) in Holding Companies"*, *Int. J. Technology Intelligence and Planning*, Inderscience Publishers.

[33] Mostafa Zamanian, Seyed MohammadSadegh Emamian, Naser BagheriMoghadam, Mahdi Sahafzadeh, **Seyed Hossein Hosseini**, 2011, *"Providing a Conceptual Framework to Formulate Mission Statement in Nonprofit Voluntary Organizations–Case of an Iranian Organization"*, *International Journal of Business and Social Science*.

[34] Naser BagheriMoghaddam, Mahdi Sahafzadeh, Amir Shafiee Alavijeh, Hami Yousefdehi, **Seyed Hossein Hosseini**, 2010, "*Strategic Environment Analysis Using DEMATEL Method Through Systematic Approach: Case Study of an Energy Research Institute in Iran*", *Management Science and Engineering*.

[35] Hamid Reza Lashgharian Azad, Hadi Akbarzade Khorshidi, **Seyed Hossein Hosseini**, Saeed Mirzamohammadi, 2010, "*Fight or Flight: Using Causal Loop Diagram to Investigate Brain Drain in Developing Countries*", *International Journal of Society Systems Science, Inderscience Publishers*.

[36] Behdad Kiani, Saeed Mirzamohammadi, **Seyed Hossein Hosseini**, 2010, "*A Survey on the Role of System Dynamics Methodology on Natural Energy Resources Analysis*", International Business Research.

[37] Behdad Kiani, **Seyed Hossein Hosseini**, Roozbeh Hesam Amiri, 2009, "*Examining the Hubbert Peak of Iran's Crude Oil: a System Dynamics Approach*", European Journal of Scientific Research.

[38] Behdad Kiani, Mohammad Reza Gholamian, Asso Hamzehei, **Seyed Hossein Hosseini**, 2009, "*Using Causal Loop Diagram to Achieve a Better Understanding of e-Business Models*", International Journal of Electronic Business Management.

[39] Siyamak Noori, **Seyed Hossein Hosseini**, Arash Bakhsha, 2009, "*Human Performance Factors in the Evaluation of Virtual Organizations*", International Journal of Business and Management.

• CONFERENCE PAPERS

- IN ENGLISH

[1] **Seyed Hossein Hosseini**, Nicholas Ho, Sam Huntly, et. al., 2025, *"Harnessing Digital Technologies to Enhance Youth Mental Health Service Capacity and Accessibility in Western Sydney"*, Oceania Chapter of the System Dynamics Society Systems Thinking & Modelling Symposium, Melbourne, Australia.

[2] **Seyed Hossein Hosseini**, Taha Hossein Rashidi, Elnaz Irannezhad, 2023, *"Simulating Transport Mode Evolution: A System Dynamic Analysis of Future Trends and Policy Implications in NSW"*, the 44th Australasian Transport Research Forum (ATRF) Conference, Perth, Western Australia.

[3] **Seyed Hossein Hosseini**, Elnaz Irannezhad, Taha Hossein Rashidi, 2023, *"A strategic assessment model for heavy vehicle fleet transition in Australia"*, the 44th Australasian Transport Research Forum (ATRF) Conference, Perth, Western Australia.

[4] **Seyed Hossein Hosseini**, Muhammad Motamedi, Seyed Maziar Alavi, 2022, *"Sustainable Urban Income Dynamics: A System Dynamics Approach"*, Oceania Chapter of the System Dynamics Society Systems Thinking & Modelling Symposium, online.

[5] Seyedehfatemeh Golrizgashti, **Seyed Hossein Hosseini**, Qingyun Zhu, Joseph Sarkis, 2020, *"Supply Chain Performance Dynamics in the Presence of Product Deletion: A System Dynamics Approach"*, 2020 Northeast Decision Sciences Institute (NEDSI) Conference Proceedings, Massachusetts, USA.

[6] **Seyed Hossein Hosseini**, Hamed Shakouri G., Aliyeh Kazemi, 2019, *"A Dynamic Model to Increase Iran's National Interests by the Oil Supply System in the World Market"*, Proceedings of ISER 220th International Conference, Bangkok, Thailand.

[7] Abouzar Ilkhani, Shahnaz Piroozfar, **Seyed Hossein Hosseini**, 2015, *"An Investigation on CRM Implementation Failure through A Systems Approach - Case Study: An Iranian Private Travel Agency"*, CIE45 Proceedings, Metz, France.

[8] **Seyed Hossein Hosseini**, Hamed Shakouri Ganjavi, Roozbeh Akhlaghi, 2012, "*A Study on The Near Future of Wind Power Development in Iran: a System Dynamics Approach*", The Second Iranian Conference on Renewable Energy and Distributed Generation (ICREDG 2012), pp:183-188, Tehran, Iran.

[9] **Seyed Hossein Hosseini**, Seyed Farid Ghaderi, Hamed Shakouri Ganjavi, 2012, "*An Investigation on the Main Influencing Dynamics in Renewable Energy Development: A Systems Approach*", The Second Iranian Conference on Renewable Energy and Distributed Generation (ICREDG 2012), pp:92-97, Tehran, Iran.

[10] **Seyed Hossein Hosseini**, Mostafa Jafari, Peyman Akhavan, Mostafa Ghanbari, 2011, "*Applying Social Network Analysis for Knowledge Management in Inter-Organizational Networks*", Seventh International Conference on Webometrics, Informetrics and Scientometrics (WIS), Istanbul, Turkey.

[11] Behdad Kiani, Roozbeh Hesam Amiri, **Seyed Hossein Hosseini**, et. al., 2008, "*Voice over IP Technology Development in Offshore Industry: System Dynamics Approach*", PWASET, Vol.34, pp.417-427, Venice, Italy.

- IN FARSI

[12] **Seyed Hossein Hosseini**, Zahra Jalalvand, Mahdi Ahangari, et. al., 2020, *"Analysis of E-learning Stakeholders' Institutional Map in Iran"*, 5th International Conference on Humanities and Education, Shiraz, Iran.

[13] Zahra Jalalvand, **Seyed Hossein Hosseini**, Mahdi Ahangari, Seyed Amin Biabanaki, 2020, *"A Study on International Experiences in the Development of E-Learning Economy (Case Study of Three Countries: USA, South Korea and Malaysia)"*, 5th International Conference on Humanities and Education, Shiraz, Iran.

[14]　　Hossein Kiani, **Seyed Hossein Hosseini**, Farshid Abdi, 2018, "*A Conceptual System Framework of Mutual Interrelationships between Work Ethics and Project Rework*", The 14th International Conference of Industrial Engineering, Tehran, Iran.

[15]　　**Seyed Hossein Hosseini**, Mehdi Ahmadi, Shahnaz Piroozfar, Mohsen Imani, 2018, "*A Systems Model to Identify Main Success Factors of Knowledge Management System in Aerial Organizations and Proposing the Improvement Solutions*", The 14th International Conference of Industrial Engineering, Tehran, Iran.

[16]　　Babak Shahrokhi, Meisam Jafari Eskandari, **Seyed Hossein Hosseini**, 2018, "*A System Dynamics Model of Green Balanced Scorecards in Healthcare Organizations*", The 14th International Conference of Industrial Engineering, Tehran.

[17]　　Mahboobeh Alipour, **Seyed Hossein Hosseini**, Farshid Abdi, 2017, "*A Dynamic Model to Determine the Way of Oil Revenue Allocation in order to Develop New Energies in the Country*", The 1st National Conference of the Iranian System Dynamics Society, Tehran, Iran.

[18]　　Parisa Golbazzadeh, **Seyed Hossein Hosseini**, 2017, "*A Dynamic Model to Improve Customer Absorption in New Product Development*", The 1st National Conference of The Iranian System Dynamics Society, Tehran, Iran.

[19]　　Niloufar Malakinejad, Shahnaz Piroozfar, **Seyed Hossein Hosseini**, 2016, "*A Systems Model for Evaluation of Policies Related to Management of Tehran Water Demand in Household Sector with Focusing on Social and Cultural Factors*", The 4th International Conference on Environmental Planning & Management, Tehran, Iran.

[20]　　Atena Yousefvand, Seyedeh Fatemeh Golrizgashti, **Seyed Hossein Hosseini**, 2017, "*A Dynamic Model to Investigate PISHTAZ Post Service Supply Chain Performance with the Aim of Customer Satisfaction Promotion*", The 13th International Conference on Industrial Engineering, Mazandaran, Iran.

[21]　　Seyed Amir Aghaie, **Seyed Hossein Hosseini**, Mostafa Zakeri Nasab, Seyed Mehdi Dabestani, 2017, "*A Review on Video Game Industry Technologies*", The 2nd National Conference of Computer Games-Opportunities and Challenges, Isfahan, Iran.

[22]　　Seyed Maziyar Alavi, Seyed Mohsen Asadi, **Seyed Hossein Hosseini**, Shahdad Eshaghpour, 2016, "*A Systems Model to Identify Main Behaviors in Mutual Relationship between Smartphone and Civic Culture*", The 4th International Congress on Civil Engineering, Architecture, and Urban Development, Tehran, Iran.

[23]　　Mostafa Zarei, **Seyed Hossein Hosseini**, 2016, "*A Dynamic Model to Investigate the Possibility of Scalability of Desired Production Capacity based on RMS: Case Study of IRAN-KHODRO Company*", The 1st International Conference on New Research Achievements in Management, Accounting, and Economics, Tehran, Iran.

[24]　　Ramtin Aminshari, **Seyed Hossein Hosseini**, Naser Javid, 2016, "*Economic Evaluation of Hybrid Solar-Gas Water Heater in Buildings to Reduce Environmental Pollutants*", The 2nd International and the 4th National Conference of Architecture, Construction, and Urban Environment, Hamedan, Iran.

[25]　　**Seyed Hossein Hosseini**, Fereydoun Asa'adi, Shahdad Eshaghpour, et. al., 2016, "*Diagnose Causes of Failures to Formulate a Comprehensive Master Energy Policy of Iran*", The 11th International Energy Conference (IEC), Tehran, Iran.

[26]　　**Seyed Hossein Hosseini**, Hamed Shakouri Ganjavi, Ramtin Aminshari, Seyed Amir Aghaie, 2016, "*A Study on International Experiences about Solar Energy Development for Small Consumers by a Conceptual Model of the System*", The 11th International Energy Conference (IEC), Tehran, Iran.

[27]　　Zahra Rostami, **Seyed Hossein Hosseini**, Hamed Shakouri Ganjavi, 2016, "*A Study on Modeling the Efficiency Dynamics of Power Plants in Energy Planning Models*", The 11th International Energy Conference (IEC), Tehran, Iran.

[28]　　Ali Tahmasi Joulandan, Shahnaz Piroozfar, **Seyed Hossein Hosseini**, 2016, "*A System Dynamics Model to Investigate Sale Performance of Small Production Enterprises with regard to Blue Ocean Strategies*", The 12th International Conference on Industrial Engineering, Tehran, Iran.

[29]　　**Seyed Hossein Hosseini**, Seyed Amir Aghaie, Shahdad Eshaghpour, 2016, "*Applying Systems Approach and Paired Comparison Matrix to Prioritize Effective Factors on the Iranian Game Industry Development*", The 1st National Conference of Computer Games-Opportunities and Challenges, Isfahan, Iran.

[30]　　Seyed Amir Aghaie, **Seyed Hossein Hosseini**, Shahdad Eshaghpour, 2016, "*Using Industry Value Chain Analysis to Assess the Current Situation and Diagnose Barriers to Development of Game Industry in Iran*", The 1st National Conference of Computer Games-Opportunities and Challenges, Isfahan, Iran.

[31]　　Seyed Amir Aghaie, **Seyed Hossein Hosseini**, Shahdad Eshaghpour, 2016, "*Diagnose the Institutional Situation of Iran's Game Industry through Institutional Mapping*", The 1st National Conference of Computer Games-Opportunities and Challenges, Isfahan, Iran.

[32]　　Seyed Amir Aghaie, Shahdad Eshaghpour, **Seyed Hossein Hosseini**, 2016, "*A Study on International Experiences for Industrial Structures and Development Policies of Game Industry (Case of Finland and Singapore)*", The 1st National Conference of Computer Games-Opportunities and Challenges, Isfahan, Iran.

[33]   Seyed Maziyar Alavi, Seyed Mohsen Asadi, **Seyed Hossein Hosseini**, Shahdad Eshaghpour, 2015, "*A Conceptual Model of the Influencing Factors and Mechanisms in Mutual Relationship between Smartphone and Civic Culture*", The 3rd International Congress on Urban Management, Tehran, Iran.

[34]   Niloufar Malekinejad, Negar Shaban, Rahman Zareain, **Seyed Hossein Hosseini**, 2015, "*Applying a Systems Approach and DEMATEL Technique to Investigate the Role of Consumption Habits and Culture on Water Saving*", Sharif Event on Water and Energy Nexus, Tehran, Iran.

[35]   Neda Dabaghian, Seyed Maziyar Alavi, Hossein Jafari, **Seyed Hossein Hosseini**, 2015, "*Applying a Systems Approach and DEMATEL Technique to Investigate the Effect of Cultural and Promotive Activities about Waste separation on the performance of municipal solid waste system*", The 1st Iranian Comprehensive Conference on Urban Management, Tehran.

[36]   **Seyed Hossein Hosseini**, Rahman Zareian, Hamed Shakouri Ganjavi, 2015, "*An Investigation on Project Portfolio Management Dynamics - Case Study of an Iranian Independent Power Producer*", The 11th International Conference on Industrial Engineering, Tehran, Iran.

[37]   **Seyed Hossein Hosseini**, Hamidreza Izadbakhsh, Salman Shahvali, Seyed Amir Aghaie, 2014, "*Recognizing Main Causes of Social Insurances Business Continuity in Developing Countries with Systems Approach: Case Study of Iranian Social Security fund*", The 10th International Conference on Industrial Engineering, Tehran, Iran.

[38]   Seyed Amir Aghaie, Hamidreza Izadbakhsh, Salman Shahvali, **Seyed Hossein Hosseini**, 2014, "*Recognition of Business Environment with regard to the Role and Performance of Social Security Insurance: a Systems Approach*", National Conference on Business Environment Improvement in Iran, Tehran, Iran.

[39]   Naser Bagheri Moghadam, Majid Samsami, Mahdi Sahafzadeh, **Seyed Hossein Hosseini**, 2012, "*The Role of BSC in Project Portfolio Management*", The 7th International Conference of Project Management, Tehran, Iran.

• BOOKS/BOOK CHAPTERS

[1]   Ramin Molanapour, **Seyed Hossein Hosseini**, 2022, *"Growth Dynamics in New Markets (Improving Decision Making through Simulation Model-based Management)"*, Tehran, Iran: AtiNegar Publication, ISBN: 978-622-7571-06-6. (Translation to Farsi).

[2]   Zahra Jamshidi, Seyed Mojtaba Sajadi, Kambiz Talebi, **Seyed Hossein Hosseini**, 2021, *"Applying System Dynamics Approach to Modelling Growth Engines"* in the International Entrepreneurship Era. In: Jafari-Sadeghi V., Amoozad Mahdiraji H., Dana LP. (eds) Empirical International Entrepreneurship. Contributions to Management Science. Springer, Cham. https://doi.org/10.1007/978-3-030-68972-8_22

[3]   **Seyed Hossein Hosseini**, Ramin Molanapour, 2021, *"Common mistakes in system dynamics"*, Tehran, Iran: AtiNegar Publication, ISBN: 978-622-7571-33-2. (Translation to Farsi).

[4]   Ramin Molanapour, **Seyed Hossein Hosseini**, 2021, *"Theory and Practical Exercises of System Dynamics"*, Tehran, Iran: AtiNegar Publication, ISBN: 978-622-7571-32-5. (Translation to Farsi).

[5]   Ramin Molanapour, **Seyed Hossein Hosseini**, 2021, *"System Dynamics Modeling with Vensim"*, Tehran, Iran: AtiNegar Publication, ISBN: 978-622-7571-04-2. (Translation to Farsi).

[6]   **Seyed Hossein Hosseini**, Mahdi Ahangari, Samad Ghafari, Seyed Amir Aghaie, 2020, *"E-learning Economy (Outlook for the Development of E-learning Economy in the Country)"*, Tehran, Iran: AtiNegar Publication, ISBN: 978-622-6102-70-4. (in Farsi).

[7]   Seyed Maziyar Alavi, **Seyed Hossein Hosseini**, Shahdad Eshaghpour, 2018, *"Smart Phone and Civic Culture"*, Tehran, Iran: Shahr Publication, ISBN: 978-600-439-210-5. (in Farsi).

[8]   **Seyed Hossein Hosseini**, Seyed Amir Aghaie, Shahdad Eshaghpour, Ahmad Reza Hosseingholi Noori, 2018, *"Iran's Animation Industry – Technologies of Animation Industry"*, Tehran, Iran: DaneshBonyan-e-Fannavar Publication, ISBN: 978-600-6844-58-9. (in Farsi).

[9]   **Seyed Hossein Hosseini**, Seyed Amir Aghaie, Shahdad Eshaghpour, Ahmad Reza Hosseingholi Noori, 2018, *"Iran's Animation Industry – Industrial Structure of Animation in Leading Countries"*, Tehran, Iran: DaneshBonyan-e-Fannavar Publication, ISBN: 978-600-6844-56-5. (in Farsi).

[10] **Seyed Hossein Hosseini**, Seyed Amir Aghaie, Shahdad Eshaghpour, Ahmad Reza Hosseingholi Noori, 2018, *"Iran's Animation Industry – Iran's Animation Industry in National Upstream Documents"*, Tehran, Iran: DaneshBonyan-e-Fannavar Publication, ISBN: 978-600-6844-55-8. (in Farsi).

[11] **Seyed Hossein Hosseini**, Seyed Amir Aghaie, Shahdad Eshaghpour, Ahmad Reza Hosseingholi Noori, 2018, *"Iran's Animation Industry – Current Situation of Iran's Animation Industry"*, Tehran, Iran: DaneshBonyan-e-Fannavar Publication, ISBN: 978-600-6844-59-6. (in Farsi).

[12] **Seyed Hossein Hosseini**, Seyed Amir Aghaie, Shahdad Eshaghpour, Ahmad Reza Hosseingholi Noori, 2018, *"Iran's Animation Industry – Institutional Structure of Iran's Animation Industry"*, Tehran, Iran: DaneshBonyan-e-Fannavar Publication, ISBN: 978-600-6844-60-2. (in Farsi).

[13] **Seyed Hossein Hosseini**, Seyed Amir Aghaie, Shahdad Eshaghpour, Ahmad Reza Hosseingholi Noori, 2018, *"Iran's Animation Industry – International Competition Vision of Iran's Animation Industry by 2025"*, Tehran, Iran: DaneshBonyan-e-Fannavar Publication, ISBN: 978-600-6844-60-2. (in Farsi).

● **EDUCATIONAL MULTIMEDIA CONTENT PRODUCTION**

[1] *"Advanced Topics in System Dynamics Modelling by Vensim"*, 2022, available in Persian at: https://youtu.be/IpDVBdodM5o?si=nYs3nUH_ny7JOz18

[2] "*Creating Dashboards for System Dynamics (SD) Models in Vensim*", 2021, available in Persian at: https://youtu.be/mBg9i-7iXtY?si=26v6zzmONJQsD_FZ

[3] "*Calibration and Sensitivity Analysis of System Dynamics Models in Vensim*", 2019, available in Persian at: https://youtu.be/_SZcXnDw8DU?si=oKZDlekdIGMIev8_

[4] *"System Dynamics Modelling by Vensim"*, 2018, Faradars Educational Platform, available in Persian at: https://faradars.org/courses/fvor96021-dynamical-systems-modeling-using-vensim (with more than 3800 users so far).

● **INVITED TALKS**

[1] *"Enhancing Youth Mental Health in Western Sydney through Participatory Systems Modelling",* 2024, The ACUMEN workshop on Mental Health Systems Modelling in Australia, Canberra.

[2] *"Systems Modelling for Youth Mental Health Improvement in Western Sydney",* 2024, Mini-workshop Emerging Aspirations in Complex Systems, The University of Sydney, Sydney.

[3] *"Impact of Early Childhood Education and Care (ECEC) in Australia",* 2023, the webinar series by The Oceania Chapter of the System Dynamics Society, online.

[4] *"Systems Archetypes",* 2022, Keynote Speech, The 19th Iranian Student Conference on Industrial Engineering, Tehran, Iran.

[5] *"Common Mistakes in System Dynamics Modelling",* 2021, Keynote Speech, the 2nd National Conference of Systems Thinking in Practice, Mashhad, Iran.

[6] *"Sustainable Business Model Transformation Strategies and Decision Support",* 2021, Keynote Speech, International Seminar on System Dynamics (ISYSDYN), Virtual Conference, Indonesia.

[7] *"The Application of Systems Approach to Analyze Social Problems",* 2018, Iran's chapter of system dynamics society, Sharif University of Technology, Tehran, Iran.

[8] *"Applying Systems Thinking Approach to Solve Complex Socio-Economic Problems"*, 2015, Faculty of Accounting and Management, Islamic Azad University (Karaj Branch), Karaj, Iran.

[9] *"Modeling the Dynamics of Unconventional Oil Development by System Dynamics"*, 2015, Iran's Economic Modeling Office, Faculty of Economics, Imam Sadigh University, Tehran, Iran.

[10] *"Systems Thinking Applications in Industrial Engineering"*, 2015, Faculty of Industrial Engineering, Islamic Azad University (South-Tehran Branch), Tehran, Iran.

[11] *"Modeling Oil Price Dynamics by System Dynamics"*, 2014, Iran's Economic Modeling Office, Faculty of Economics, Imam Sadigh University, Tehran, Iran.

● **ACADEMIC SERVICES / MEMBERSHIPS**

- Member of the policy council of the Oceania Chapter of the System Dynamics Society
- Member of the MODSIM2025 Early Career Researcher (ECR) Committee
- Member of System Dynamics Society Conference Paper Review Committee
- Reviewing submitted to:
  - Systems Engineering Journal (John Wiley)
  - Systems Research and Behavioral Science (John Wiley)
  - Kybernetes Journal (Emerald)
  - International Journal of Productivity and Performance Management (Emerald)
  - Industrial Engineering & Management Journal (OMICS Group, Engineering Journals)
  - Journal of Renewable and Sustainable Energy (AIP Publishing)
  - Industrial Engineering Journal (University of Tehran)
  - Journal of Industrial Management Perspective (Shahid Beheshti University)

• TEACHING EXPERIENCE

- Academic Courses

1) **The University of New South Wales (UNSW) – Business School (2024-2025)**
"Systems Thinking & Business Dynamics" - Held 2 times

2) **University Technology of Sydney (UTS) – Faculty of Engineering and Information Technology (2022)**
"Artificial Intelligence for Enterprises" - Held 1 time

3) **University Technology of Sydney (UTS) – Faculty of Engineering and Information Technology (2022)**
"Economics and Finance for Engineering Projects" - Held 1 time

4) **University of Tehran–Faculty of Management (2022)**
"Systems Thinking for Managers" for DBA students (12 hours) - Held 1 time

5) **University of Tehran – School of Industrial and Systems Engineering (2018-2021)**
"System Dynamics" for Master and PhD students - Held 4 times

6) **University of Tehran – Center of Advanced Training Programs (2019-2021)**
"Systems Thinking for Managers" for DBA students (12 hours) - Held 7 times

"Systems Analysis" for MBA students of Institute for Training, Operational Consultancy for Tourism (INSTROCT) (12 hours) - Held 1 time

7) **Islamic Azad University (South-Tehran Branch) (2014-2015)**
"System Dynamics" for Master and PhD students - Held 6 times

8) **Islamic Azad University (south-Tehran Branch) (2014-2015)**
"Energy Systems Engineering (economic analysis of energy systems)" for Master and PhD students - Held 5 times

9) **Islamic Azad University (Karaj Branch) (2014)**
"Management Information Systems (MIS)" for Master students - Held 2 times

10) **Kharazmi University (2012-2013)**
"Business plan" for Master students - Held 2 times
"Management Information System (MIS)" for Master students - Held 1 time

11) **University of Applied Science and Technology (Persepolis branch) (2013)**
"Management principals" for BA and BSc students

12) **Islamic Azad University (Eslamshahr Branch) (2011)**
"Operations Research I" for BA students - Held 2times

- Organisational and Professional Training

1) **The Centre for Supply Chain Research (CSCR) at the University of Wollongong (2025)**
"System Dynamics Modelling with Vensim" workshop for Master and PhD students and researchers (half a day)

2) **SAMAM research and training institute (2017-2021)**
"System Dynamics modelling (with Vensim Software)" workshop for Master and PhD students and researchers (2 days – 16 hours) - Held 14 times

3) **Institute for Training, Operational Consultancy for Tourism (INSTROCT) (2021-2022)**
"Systems Thinking for Managers" for the company's mid-level managers and experts of Bonyad Subsidiaries (12 hours) – Held 6 times

4) **The 3rd National Conference of The Iranian System Dynamics Society (2021)**
"Dashboard making for System Dynamics models in Vensim" for Researchers and the conference attendees (1 day – 2 hours

5) **Hirad Smart Trading Co. (2021)**
"Implementing Systems Thinking in Organisations" for Iranian Startups (2 days – 8 hours)

6) **Sina Port & Marine Co. (2021)**
"Systems Thinking for Managers" for the company's mid-level managers and experts (12 hours)

7) **Sayda Business Clinic (2021)**

"Implementing Systems Thinking in Organisations" – a part of business routing boot camp for Iranian Startups and Small Companies (8 hours)

8) **Golrang Industrial Group (2021)**
"Evaluation of the Company's Strategic Performance using System Dynamics Modeling by Vensim" for the company's strategic planning experts (12 hours)

9) **Systems Thinking in Practice Group, Ferdowsi University Mashhad (2020)**
"System Dynamics modelling (with Vensim Software)" workshop for Master and PhD students and researchers (2 days – 8 hours)

10) **Institute of Human Health and Health Systems Improvement (2020)**
"Systems Thinking for Managers" for The institute's researchers (12 hours)

11) **Iran Knowledge Institute (2020)**
"System Dynamics modelling (with Vensim Software)" workshop – a part of the Simulation Summer School for Master and PhD students and researchers (2 days – 16 hours)

12) **Tehran Chamber of Commerce Industries Mines and Agriculture (2020)**
"Systems Thinking for Managers" for The chamber members (2 days - 12 hours)

13) **University of Tehran – Student Scientific Union, Graduate Faculty of Environment (2019)**

"System Dynamics modelling (with Vensim Software)" workshop for Master and PhD students (2 days - 16 hours)

14) **Amirkabir University of Technology – Student Scientific Union (2019)**
"Applying Systems approach for complex socio-economic problems" for Master and PhD students (2 days - 16 hours)

15) **Hirad Smart Trading Co. (2019)**
"Systems Thinking for Managers" – a part of the Successful Managers Training Course for Iranian Startups (2 days – 8 hours)

16) **Institute for Management and Planning Studies (2019)**
"System Dynamics course" for Master and PhD students

17) **The 2ⁿᵈ National Conference of The Iranian System Dynamics Society (2019)**
"Advanced topics in System Dynamics modelling by Vensim" for Researchers and the conference attendees (1 day – 2 hours)

18) **Iran's Chapter of System Dynamics Society & SAMAM Institute (2018)**
"System Dynamics modelling (with Vensim Software workshop)" for Master and PhD students and researchers (2 days – 16 hours)

19) **Pardis Technology Park (2018)**
"Applying a systems approach to solve complex socio-economic problems (with Vensim Software)" workshop for Managers (2 days – 16 hours)

20) **The 1ˢᵗ National Conference of The Iranian System Dynamics Society (2017)**
"Creating System Dynamics models by Vensim" for Researchers and the conference attendees (1 day – 4 hours)

21) **The 7ᵗʰ International Offshore Industries Conference (2017)**
"Marine technology roadmap" workshop (Requested by marine knowledge-based industries and technology development council) for Researchers and the conference attendees (1 day – 2 hours)

22) **Iran Broadcasting (IRIB) Research Center (2017)**
"Applying a systems approach to solve complex socio-economic problems (with Vensim Software)" workshop for Managers and policy-related researchers (2 days – 16 hours)

23) **Tehran Municipality (region 5) (2017)**
"Systems thinking for managers" for Managers (1 day – 4 hours)

"Applying a systems approach to solve complex socio-economic problems (with Vensim Software)"

workshop for Planning Unit employees (2 days – 16 hours)

24) **Marine knowledge-based industries and technology development council (2016)**
"Marine technology roadmap" workshop for Researchers, industrial practitioners, and marine university professors (3 days – 6 hours)

25) **National Iranian Engineering and development of gas Company (2016)**
"Applying a systems approach to solve complex socio-economic problems (with Vensim Software)" workshop for Managers and Planning Unit employees (2 days – 16 hours)

26) **National Iranian Gas Company (2016)**
"Applying a systems approach to solve complex socio-economic problems (with Vensim Software)" workshop for Managers and Planning Unit employees (2 days – 16 hours)

27) **Hormozgan Electric Distribution Company (2016)**
"Systems thinking for managers" for Managers and Planning Unit employees (1 day – 8 hours)

28) **Tehran Waste Management Company (2016)**
"Systems thinking for managers" for Managers and Planning Unit employees (1 day – 8 hours)

29) **Dr. Abidi Pharmaceutical Company (2016)**
"Applying a systems approach to solve complex socio-economic problems (with Vensim Software)" workshop for Planning Unit employees (3 days – 24 hours)

30) **Iranian National Tax Administration (2016)**
"Systems thinking for managers" for Managers and Policy & Planning Unit employees (1 day – 8 hours)

31) **Ministry of Defense and Armed Forces Logistics (2016)**
"Systems thinking for managers" for Managers and Policy & Planning Unit employees (1 day – 8 hours)

32) **Farapardazesh training institute (2015-2016)**
"System Dynamics modelling (with Vensim Software)" workshop for Master and PhD students and researchers (2 days – 16 hours) - Held 4 times

33) **Academic Center for Education, Culture and Research (Sharif University branch) (2013-2015)**
"System Dynamics modelling (with Vensim Software)" workshop for Master and PhD students and researchers (2 days – 16 hours) - Held 6 times

34) **Rezaee Research Center, Sharif University of Technology (2013)**
"Applying a systems approach to solve complex socio-economic problems (with Vensim Software)" workshop for Planning Unit employees (2 days – 16 hours)

• **ACADEMIC SUPERVISORY & ADVISORY EXPERIENCE**

- **PhD Degree**

1) Annisa, 2027 (expected), "Understanding Decision-Making Factors of Road Freight Operators for Decarbonizing Heavy Duty Vehicles in NSW", School of Civil and Environmental Engineering, UNSW (**co-supervisor**).
2) Fatemeh Dianat, 2022, *"A Framework to Analyze Power Price and Supportive Programs to Develop Renewables Regarding Competition and Uncertainty"*, School of Engineering, Department of Industrial Engineering, Bu-Ali Sina University (**Advisor**).
3) Hamid Zadmehr, 2021, *"A Model to Enhance Iran's Income from Tourism Industry (Systems Approach)"*, Faculty of Management, University of Tehran (**Advisor**).
4) Seyed Maziar Alavi, 2021, "A Model to Sustain Tehran Municipality`s Revenues Based on Entrepreneurship Development-Using Dynamic Method", Faculty of Entrepreneurship Management (Development), Islamic Azad University (**Advisor**).
5) Abdollah Mehrabi, 2019, *"Cost Reduction in Mega Projects by Implementation Effective Interface Management with System Dynamics Approach (Case study: South Pars Mega Projects)"*, Industrial Management Institute (IMI) (**Advisor**).
6) Saeed Pakdel, 2017, *"National Human Resource Development Model: a Systems Approach (Case Study of Iran)"*, Department of Human Resource, Faculty of Management, Shakhes Pajouh Research Institute (**Advisor**).

- **MSc Degree**
   1) Seyed Milad Mousavi, 2019, *"The dynamic model to assess the Non-Interest revenue in the banking system and providing improvement scenarios"*, School of Industrial Engineering, Islamic Azad University (south-Tehran Branch) (**Supervisor**).
   2) Nafiseh Azari, 2018, *"A Simulation model for optimal management of construction waste according to different variables and conditions of the current construction in Tehran (Case Study of Chitgar Educational-Cultural Complex)"*, College of Arts and Architecture (energy field), Pars University (**Supervisor**).
   3) Mahboobeh Alipour, 2017, *"A Dynamic Model to Determine the Way of Oil Revenue Allocation in order to Develop New Energies in the Country"*, School of Industrial Engineering, Islamic Azad University (south-Tehran Branch) (**Supervisor**).
   4) Hossein Kiani, 2017, "*A model to investigate the effect of self-control culture and work consciousness on dynamics of rework in management of projects: A case study of the construction of a green building in Tehran"*, School of Industrial Engineering, Islamic Azad University (south-Tehran Branch) (**Supervisor**).
   5) Vahid HajiEbrahimi, 2019, *"An investigation on Iran's petrochemical industry development (a system dynamics approach)"*, School of Industrial and Systems Engineering, College of Engineering, University of Tehran (**Advisor**).
   6) Shahdad Eshaghpour, 2016, *"Identification and system analysis of factors influencing the development of supply chain of marine industries under different scenarios"*, School of Industrial Engineering, Islamic Azad University (south-Tehran Branch) (**Advisor**).
   7) Ali Tahmasi Joulandan, 2016, *"A System Dynamics Model to Investigate Sale Performance of Small Production Enterprises with regard to Blue Ocean Strategies"*, School of Industrial Engineering, Islamic Azad University (south-Tehran Branch) (**Advisor**).
   8) Setareh Emami, 2016, *"Ranking strategies considering risk analysis, systems approach, and Hybrid Fuzzy Vikor-Fuzzy Dematel (Case study of an oil and gas contractor)"*, School of Industrial Engineering, Islamic Azad University (south-Tehran Branch) (**Advisor**).
   9) Ramtin Aminshari, 2016, *"Economic Analysis of Solar Energy Utilization as a Complement of Home Heating System and Providing Policy Options for the Development of the System in Iran"*, School of Industrial Engineering, Islamic Azad University (south-Tehran Branch) (**Advisor**).
   10) Niloufar Malekinejad, 2016, *"A System Model for Household Water Demand Management with a Focus on Social and Cultural Factors"*, School of Industrial Engineering, Islamic Azad University (south-Tehran Branch) (**Advisor**).
   11) Elnaz Akhavan, 2016, *"Evaluation of the Production, Inventory and Delivery System in Publishing Industry: A System Dynamics approach"*, Engineering Department, Raja University (**Advisor**).
   12) Atena Yousefvand, 2016, *"A dynamic model to investigate Pishtaz post service supply chain performance with the aim of customer satisfaction promotion"*, School of Industrial Engineering, Islamic Azad University (south-Tehran Branch) (**Advisor**).

WORK EXPERIENCE

2022-NOW
Systems Modelling Research Fellow, THE BRAIN AND MIND CENTRE, THE UNIVERSITY OF SYDNEY, AUSTRALIA

My role is to develop a System Dynamics model to analyse youth mental health policies in Australia in which simulation models are created through a participatory approach to understand the drivers of mental health system change and to explore system transitions to the future in Australia.

2022

Researcher, THE RESEARCH CENTRE FOR INTEGRATED TRANSPORT INNOVATION (RCITI), UNSW, AUSTRALIA

Developed a System Dynamics model in Vensim to simulate the transport energy consumption trajectories under different scenarios in Greater Sydney to inform transport and energy system decision-makers of possible futures in this sector.

2021

Business Development & Strategy Manager, PLATUTE, AUSTRALIA

This job was a remote contract for a start-up in the education industry.
- Formulated and implemented corporate-level strategies
- Planned and executed business development initiatives
- Assessed and reported the strategic performance

2021

Advisor, INSTITUTE FOR TRAINING, OPERATIONAL CONSULTANCY FOR TOURISM (INSTROCT), IRAN
- Gave advisory services to the committee for designing MBA in Tourism
- Benchmarked the related successful MBA courses
- Negotiated with selected universities to perform the courses

2016 – 2021

Managing Director (MD), MODEL-BASED MANAGEMENT SYSTEMS INSTITUTE, IRAN

Managed the entire team to conduct management consulting and policy investigation projects for private and public sectors (in the following fields: Strategic planning and related investigations (i.e. benchmarking, environmental analysis, interviews with experts, etc.), Model-based policy analysis, System Dynamics modelling and simulation)
- Wrote proposals, negotiated with the related stakeholders, and performed the required marketing activities to define projects for the private and public sector
- Conducted project management sessions with the internal team and the clients
- Conducted training workshops about model-based policy and strategy analysis

Some of the projects' titles:
- The investigation on revenue realisation of Tehran municipal (District 5) in a 5-year horizon (system dynamics modelling)
- Investigating the effects of the debt gap on the social security crisis (System dynamics modelling)
- Identifying Key Success Factors and Determining the Priorities of the Second 5-Year Strategic Plan for Pardis Technology Park (including systems modelling)
- Benchmarking of vocational and on-the-job training systems in power and water industries for selected countries
- A study on the development of the video game industry in Iran and providing the improvement policies (system dynamics modelling)
- The national strategic plan of the E-Learning economy in Iran (including systems modelling)
- E-Learning technology tree
- Animation technology tree
- System Analysis of Socio-Cultural Factors Affecting Electricity Consumption in Hormozgan's Households and Developing Cultural Policies to Reduce Consumption
- The national strategic plan of Iran's animation industry (including systems modelling)
- The national strategic plan of Iran's video game industry (including systems modelling)
- Investigating the influencing factors and mechanisms in the mutual relationship between smartphones and civic culture in Tehran (including systems modelling)

2019 – 2021

Supply Chain Manager, PROSHAT KOUROSH FOODS, IRAN

Managed an entire team (consisting of three departments) to effectively conduct the following activities:
- Production planning and supply for 50 SKU food products in 6 product groups
- Demand analysis and forecast
- Supply planning and control
- Vendor management
- Procurement budgeting

- Strategic planning and strategic performance monitoring (via Balanced Scorecards)
- Process management and improvement

2018 – 2019
Executive Secretary, THE SECOND NATIONAL CONFERENCE OF SYSTEM DYNAMICS, IRAN
- Planned and managed the conference executive schedule
- Held the steering committee of the conference
- Managed website, social media, and promotional activities (i.e., with media, university PRs, student associations, etc.)
- Performed the executive activities required for conference sponsors
- Performed the program on the conference day

2017 – 2018
Policy Advisor, IRAN BROADCASTING (IRIB) RESEARCH CENTER, IRAN
- Held training workshops for the centre's researchers and faculty members about applying systems modelling approaches to investigate complex social problems.
- Supervised 20 research projects in which participatory and group model-building techniques are used to finally formulate 20 policy papers for IRIB to be considered as the main framework for media program production.
- Participated in managerial and steering committees to present the results for the high-rank managers in IRIB.

2017 – 2019
Strategy Advisor, TEHRAN MUNICIPALITY (REGION5), IRAN
- Gave advisory and training services to the Deputy of Urban Planning and Development, Tehran Municipality (Region 5).
- Held training workshops for managers and experts about applying systems thinking in urban management and systems modelling to investigate complex urban management and strategic planning of the municipality.
- Used data analysis and systems modelling to develop a simulation model to forecast the region's financial and budgeting situation under different scenarios and investigate the effect of different strategies on the municipality's performance in future.
- Participated in managerial and steering committees to present the systems modelling investigation results for the high-rank managers in the Tehran municipality.

2016 – 2017
Executive and Scientific Secretary, VICE-PRESIDENCY FOR SCIENCE AND TECHNOLOGY, IRAN
- Managed the executive and scientific activities regarding the Iran Marine Technologies Roadmap
- Held more than 25 training workshops for practitioners from 11 technology fields from 50 public and private organisations
- Held more than 25 steering committees by participants from 11 technology fields from 50 public and private organisations
- Participated in writing the final report and the related presentations for the public and in scholar conferences

2016 – 2017
Researcher, PARLIAMENT RESEARCH CENTER, IRAN
- Completed two research topics related to energy policy and wrote the policy papers to be delivered to members of the parliament.
- Presented related publications at an international conference

2015
Strategy Analyst & Systems Modeller, MARINE ENGINEERING RESEARCH CENTER, IRAN
Assisted project and team management for 10 sub-tasks of the Ten-year Strategic plan of Iran marine industries for The Industrial Development & Renovation Organization of Iran (IDRO), including:
- systems modelling
- value chain analysis
- expert opinion
- benchmarking
- innovation system analysis
- upstream documents analysis
- demand analysis (trend analysis and forecast under scenario)

- SWOT analysis
- strategy and action plan formulation

2014

Economic Evaluation Analyst, SEPEHR SYSTEM ANDISH COMPANY, IRAN

Performed all activities required for the economic evaluation to complete the construction and the renewal of AzimGostareshHormoz Dry Dock for National Iranian Tanker Company, including:
- data gathering
- project lifecycle financial analysis (cash flow analysis, NPW, ROR, etc.) (with Excel and COMFAR)
- scenario and sensitivity analysis

2013

Head of Planning Department, REZAEE RESEARCH CENTER, IRAN

Conducted a complete corporate strategic planning for the Rezaee Research Center at the Sharif University of Technology. Tasks for formulating and revising the strategic plan of the centre included:
- environmental analysis (SWOT)
- formulating vision, mission, and goals
- strategic initiatives formulation
- managing the centre's strategic planning steering committee

2008 – 2011

Strategic Planning Analyst, AMIN MANAGEMENT CONSULTING COMPANY, IRAN

Participated in different management consulting projects as a strategic planning analyst and project manager assistant in Industrial and organisational consulting projects (strategic planning and technology management), including a national research institute in the power industry, a private independent power producer company, an investment holding, an investment insurance fund, a national agency in renewable energy, a subsidiary of Tehran municipality, and a building and construction company.