

Amir Hossein Nabizadeh Rafsanjani

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EDUCATIONAL AND ACADEMIC BACKGROUND

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| Senior Researcher in Artificial Intelligence <i>Medical Informatics Research Center, Institute for Futures Studies in Health Kerman University of Medical Sciences, Iran</i> | 2021 - 2023 |
| Post-Doctoral Researcher in Computer Science <i>University of Lisbon (IST)/INESC-ID, Portugal</i> Advisors: Joaquim Armando Pires Jorge, Daniel Goncalves | 2019 - 2021 |
| Doctor of Philosophy in Computer Science <i>University of Porto (UP), Porto, Portugal</i> Advisors: Alipio Mario Jorge, Jose Paulo Leal Thesis grade: A (in scale of A to E) | 2014 – 2018 |
| Master of Science in Information Technology Management <i>University Technology Malaysia (UTM), Johor Bahru, Malaysia</i> Advisor: Naomie Salim CGPA: 4 (in scale of 4) | 2011 - 2013 |
| Bachelor of Science in Information Technology Engineering <i>Payam-e Noor University (PNU), Iran</i> Advisor: Amjad Samareh Hashemi CGPA: 15.30 (in scale of 20) | 2006 - 2010 |
| Diploma of Mathematics and Physics <i>Ferdoosi High School, Rafsanjan, Iran</i> CGPA: 18.15 (in scale of 20) | 2002 - 2006 |

ACADEMIC AND PROFESSIONAL EXPERIENCE

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| Assistant Prof. Kerman University of Medical Sciences, Kerman, Iran <ul style="list-style-type: none">Research Projects: AI based systems. | 2023 - Ongoing |
| External Researcher INESC-ID, Lisbon, Portugal | 2022 - Ongoing |

- Research Projects:

1. GameCourse: Enhancing students efficiency on academic courses via Artificial Intelligence and Gamification..

Research Intern

2015 – 2016 (6 months)

National Institute of Informatics (NII), Tokyo, Japan.

- Research Projects:

1. Predicting User Preference Based on Matrix Factorization by Exploiting Music Attributes.
2. Course link prediction across universities based on course graphs in MOOC.

Research Assistant (part time)

2014 - 2019

Artificial Intelligence and Decision Support Lab (LIAAD), INESC TEC, Porto, Portugal.

- Research Projects:

1. Developing music recommender using Matrix Factorization methods.
2. Developing e-learning recommender via machine learning techniques.

Summer School Participant

Sep 2015

University of Porto (UP), Porto, Portugal.

Summer school on data sciences for big data - resource aware data mining.

Summer School Participant

June 2014

University of Minho, Braga, Portugal.

Summer school on parallel high-performance computing using accelerators.

International conference volunteer organization member

Sep 2015

Volunteer member of European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD).

AWARDS, HONORS AND GRANTS

International Conference Session Chairman, Invited as a session chairman, 11th International Conference on Web Information Systems and Technology (WEBIST), 2015, Lisbon, Portugal.

Ranked 1st student, 1st CGPA among master students of Information Technology Management of University Technology Malaysia (UTM), 2013.

Internship grant, Qualified as a full intern grantee at National Institute of Informatics (NII), Tokyo, Japan, Nov 2015 to April 2016.

Travel Grant, Travel Grant for Internship, National Institute of Informatics (NII), Tokyo, Japan, 2015.

Project Grant, Qualified for SIBILA (INESC TEC) grant project - Portugal - Jan 2014 to July 2015.

Project Grant, Qualified for research grant (BI) - INESC TEC - Portugal - Sep 2016 to Aug 2018.

REVIEWER / PROGRAM COMMITTEE

Journals

Expert Systems with Applications (Q1)

Expert Systems: The Journal of Knowledge Engineering journal. Wiley (Q3)

Conferences

IEEE Computer Society Signature Conference on Computers, Software and Applications 2020 (COMPSAC 2020)

IEEE International Workshop on E-Health Systems & Web Technologies (ESAS 2019, 2021, 2022)

PROFESSIONAL MEMBERSHIP

Professional member of Institute for Systems and Technologies of Information, Control and Communication (INSTICC) - Portugal - membership number: 8365. 2015 - Present

PUBLICATIONS

Published / Accepted:

1. Rafsanjani, H. N., & **Nabizadeh, A. H.** (2023). Towards digital architecture, engineering, and construction (AEC) industry through virtual design and construction (VDC) and digital twin. *Energy and Built Environment*.
2. **Nabizadeh, A. H.**, Gonçalves D., Gama, S., Jorge J., (2022). Early Prediction of Students Final Grades in a Gamified Course", *IEEE Transactions on Learning Technologies*, 10.1109/TLT.2022.3170494.
3. Elaheh Shafiei, Sadrieh Hajesmaeel-Gohari, Simin Salehinejad, Saeideh Goharinejad, Mohammad Mehdi Ghaemi, **Amir Hossein Nabizadeh.**, (2022). A Review of Highly Cited Articles in the use of Telemedicine during COVID-19 Pandemic, The international telemedicine conference, Isfan University of Medical Sciences. Poster.
4. Mohammad R. Salmanpour, Mahdi Hosseinzadeh, Mahya Bakhtiari, Kasra Mojallal, Soroush Mehraban, Mohammad M. Ghaemi, **Amir Hossein Nabizadeh**, Arman Rahmim. (2022). Cognitive Outcome Prediction in Parkinson's Disease Using Hybrid Machine Learning Systems and Radiomics Features. *SNMMI 2022*. Poster.
5. Mohammad R. Salmanpour, Mahdi Hosseinzadeh, Mahya Bakhtiari, Amir R.Gholami, Mohammad M. Ghaemi, **Amir Hossein Nabizadeh**, Arman Rahmim. (2022). Drug Amount Prediction in Parkinson's Disease Using Hybrid Machine Learning Systems and Radiomics Feature. *SNMMI 2022*. Poster.
6. Javanmardi, A., Hosseinzadeh, M., Hajianfar. G., **Nabizadeh, A. H.**, Salmanpour, M., (2022), Multi-modality fusion coupled with deep learning for improved outcome prediction in head and neck cancer, *SPIE Medical Imaging*. San Diego.
7. Salmanpour, M., Hosseinzadeh, M., Akbari, A., Borazjani. K., Mojallal, K., Askari, D., Hajianfar. G., Rezaei, M., Ghaemi, M. M., **Nabizadeh, A. H.**, Rahmim, A., (2022). Prediction of TNM stage in head and neck cancer using hybrid machine learning systems and radiomics features, *SPIE Medical Imaging*. San Diego.

8. Nogueira, A., **Nabizadeh, A. H.**, Gonçalves. D., (2021). DynaGame: a rule editor for gamified education. International Conference on Graphics and Interaction (ICGI), 1-7.
9. **Nabizadeh, A. H.**, Jorge, J., Gama, S., Gonçalves, D. (2021). How do Students Behave in a Gamified Course?-A Ten-Year Study. IEEE ACCESS.
10. Raleiras, M., **Nabizadeh, A. H.**, Costa, F. A., (2021). Automatic Learning Styles Prediction: A Survey of the State-of-the-Art (2006-2021). Journal of Computers in Education. 1-93.
11. **Nabizadeh, A. H.**, Gonçalves, D., Gama, S., Jorge, J., & Rafsanjani, H. N. (2020). Adaptive learning path recommender approach using auxiliary learning objects. Computers & Education, 147, 103777.
12. **Nabizadeh, A. H.**, Leal, J. P., Rafsanjani, H. N., & Shah, R. R. (2020). Learning Path Personalization and Recommendation Methods: A Survey of the State-Of-The-Art. Expert Systems with Applications, 113596.
13. Rafsanjani, H. N., Ghahramani, A., & **Nabizadeh, A. H.** (2020). iSEA: IoT-based smartphone energy assistant for prompting energy-aware behaviors in commercial buildings. Applied Energy, 266, 114892.
14. **Nabizadeh, A. H.**, Jorge, A. M., & Leal, J. P. (2019). Estimating time and score uncertainty in generating successful learning paths under time constraints. Expert Systems, 36(2), e12351.
15. **Nabizadeh, A. H.**, Mário Jorge, A., & Paulo Leal, J. (2017, July). Rutico: Recommending successful learning paths under time constraints. In Adjunct Publication of the 25th Conference on User Modeling, Adaptation and Personalization (pp. 153-158).
16. **Nabizadeh, A. H.**, Jorge, A. M., Tang, S., & Yu, Y. (2016, July). Predicting user preference based on matrix factorization by exploiting music attributes. In Proceedings of the Ninth International C* Conference on Computer Science & Software Engineering (pp. 61-66).
17. **Nabizadeh, A. H.**, Jorge, Alípio Mário; José Paulo Leal. (2015, September) Long term goal oriented recommender systems. Poster presented in European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), Porto, Portugal.
18. **Nabizadeh, A. H.**, Jorge, A., & Leal, J. P. (2015). Long term goal oriented recommender systems. International Conference on Web Information Systems and Technologies (WEBIST).
19. **Rafsanjani, A. H. N.**, Salim, N., Aghdam, A. R., & Fard, K. B. (2013). Recommendation Systems: a review. International Journal of Computational Engineering Research, 3(5), 47-52.
20. **Nabizadeh Rafsanjani, A. H.**, Salim, N., Mohammadhossein, N., & Bagheri Fard, K. (2013). New Recommendation System Model Based on Semantic Similarity in Movie Domain. Journal of Basic and Applied Scientific Research, 3(7), 258-273.
21. Mohammadhossein, N., Zakaria, N. H., **Rafsanjani, H. A.**, & Asadi, S. (2013). The relationship of knowledge management and market segmentation on CRM. Journal of Basic Applied Scientific Research, 3(4), 615-626.

In Preparation:

1. Madalena Assembleia, **Amir Hossein Nabizadeh**, Hugo Nicolau, Daniel Goncalves. (2023). Peer-Grading in Blended Learning Environments: Reliability, Validity, and the Effect of Social Relationships.
2. **Amir Hossein Nabizadeh**, Mohammed Mehdi Ghaemi. (2023). Predicting the pharmaceutical requirements of a Hospital. Journal of Biomedical Science.

COMPUTER SCIENCE SKILLS

Programming languages: R, Shiny R, C#.

General Software: Latex, Microsoft Office 2003/2007/2010/2013/2015 (Word, Excel, PowerPoint, Access).

SPSS software.

MENTORING / CO-ADVISING

Ph.D.

1. Monica Raleiras, University of Lisbon, Using Gamification in Higher Education, 2019-21

M.Sc.

1. Joana Isabel Quintas Sesinando, University of Lisbon, GameCourse - The Ultimate UI, 2021-23
2. Catarina Passos Correira Quintino Goncalves, University of Lisbon, GameCourse:The Next Level, 2021-22
3. Ana Rita Goncalves, University of Lisbon, GameCoursePersonal, 2020-21
4. Mariana Frazao Matos Saraiva, University of Lisbon, GameCourseUI, 2021-21
5. Ana Beatriz Mateus Nogueira, University of Lisbon, A Rule Based System for a Gamified Blended Learning Environment, 2020-21
6. Inês Barral Paiva, University of Lisbon, AutoGame, 2019-20
7. Diana Maria Carvalho Lopes, University of Lisbon, GameCourseBeyond, 2019-20
8. Patricia Isabel Dias da Silva, University of Lisbon, Implementing a New Graphical User Interface For GameCourse, 2019-20
9. Hourieh Ehtemam, Kerman University of Medical Sciences, Prediction of Suicide Attempts for Repetitious Cases Using Machine Learning Algorithms. 2020-2023.

RESEARCH INTERESTS

1. Artificial Intelligence
2. Machine learning
3. Data mining
 - Recommendation Systems
 - Image processing/Medical Image processing
 - Text Mining
 - Decision Support Systems
 - Knowledge Discovery
 - Information Retrieval
4. Graph Theory
5. E-learning / Massive Open Online Courses (MOOC)

6. Data Science

LANGUAGES

- English: Fluent.
- Portuguese: Intermediate (B2 levels).
- Farsi (Persian): Mother tongue.
- Arabic: Basic.

REFERENCES

Joaquim Armando Pires Jorge

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