Omid Veisi

Germany, Siegen, PA 57074

in omidveisi1990   ✉ omid.veisi.ov@gmail.com   ⌘ Omid-Veisi   🌐 omidveisi.com

EDUCATION

Master of Science in Human-Computer Interaction   **Siegen, Germany**
University of Siegen   *Oct 2022 - Oct 2024*

- Thesis: No Touch No Mouse, Sci-Fiction is Here: Improving the user interface of personal computers using hand gestures

Master of Science in Urban Design   **Tehran, Iran**
University of Art, GPA: 4.0/4.0   *SEP 2017 – SEP 2020*

- Thesis: Studying the effect of the morphologic index of urban blocks design on the improvement of passive surface absorption of sunlight (case study: Kermanshah, Iran)

Bachelor of Science in Architect   **Kermanshah, Iran**
Razi University, GPA: 3.32/4.0   *SEP 2009- NOV 2013*

- Thesis: Designing a children's hospital with a sustainable design approach in the philosophy of folding

Research Interests

- Artificial intelligence & Machine Learning
- Virtual Reality & Augmented Reality
- Human Computer Interaction
- Human Robot Interaction
- Human AI Interaction
- Smart Cities(Energy Consumption)

PUBLICATIONS

Journal Researcher& Book Publications

- **O.Veisi**, A.Shakibamanesh, M. Rahbar,*"Using Intelligent Multi-Objective Optimization and Artificial Neural Networking to Achieve Maximum Solar Radiation with Minimum Volume in the Archetype Urban Block"*, Sustainable Cities and Society,(2022),**DOI: 10.1016/j.scs.2022.104101**. IF:11.7

- **Veisi, O.** , Mohammadi, M., and Behnamifard, F.,(2022). *Using Remote Sensing And Big Data To Analysis Direct Solar Radiation Impacts On The Spread Of Covid-19 (Case Studies: Six States Of The United States)*, ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., X-4/W3-2022, 245–252, **https://doi.org/10.5194/isprs-annals-X-4-W3-2022-245-2022**.

- **O.Veisi**, Shakibamanesh, A. (2023). *The Application of CIM and BIM to the Simulation of Energy in Urban Superblocks; an Effort to Develop the Initial Digital Twins (Case Studies: Kermanshah, Iran).* In: Chatterjee, U., Bandyopadhyay, N., Setiawati, M.D., Sarkar, S. (eds) Urban Commons, Future Smart Cities and Sustainability. Springer Geography. Springer, Cham. **https://doi.org/10.1007/978-3-031-24767-5_32**.

- **O.Veisi**, A.Shakibamanesh, *"Analysis of Solar Radiation Towards Optimization and Location of the Urban Blocks in the Neighborhood Units."* Environmental Science and Sustainable Development (2022). **https://doi.org/10.21625/essd.v7i1.868**.

- A.Shakibamanesh, **O.Veisi**,*"Designing sustainable urban blocks; an effort to optimize 3d form and achieving the maximum amount of solar radiation"*Published at Taylor & Francis Group, book titled "Sustainable Urbanism in Developing Countries",(2021),**DOI: 10.1201/9781003126195-27**.

Conference publications

- Veisi Omid, Delong Du, Mohammad Amin Moradi, Fernanda Caroline Guasselli, Sotiris Athanasoulias, Hussain Abid Syed, Claudia Müller, Gunnar Stevens, *"Designing SafeMap Based on City Infrastructure and Empirical Approach: Modified A-Star Algorithm for Earthquake Navigation Application"*, 1st ACM SIGSPATIAL International Workshop on Advances in Urban-AI (UrbanAI '23), November 13, 2023, Hamburg, Germany, **DOI: 10.1145/3615900.3628788**.
- **O.Veisi**, N.Fadaee, M.Rahbar, H.Ebadi, *Optimization of the daylight performance of sustainable home office based on genetic algorithm,"* published in Proceedings on Applied Energy,(2021),

Journal Paper Ongoing and/or Under review

- A.Tehrani, **O.Veisi**, B.vojdani fakhr, D.Du, *"Predicting Solar Radiation in the Urban Area: A Data-Driven Analysis for Sustainable City Planning Using Artificial Neural Networking"*, Sustainable Cities and Society,(2023),Under review in second round.
- A.Tehrani, **O.Veisi** *"Using Artificial Intelligence for Predicting Universal Thermal Climate Index based on different urban conditions: A comparative study of Machine Learning Models"*, Analyzed is done, Under preparing, Targeted for Renewable and Sustainable Energy Reviews,(2023).
- **O.Veisi**, Mohammad Amin Moradi, and Mark Hassenzahl, *"Autonomous navigation in forest road network: Using Modified A-star Algorithm, to optimize road-finding to transport Timber Supply Area"*, Under preparing, IEEE Transactions on Intelligent Transportation Systems,(2024).

Conference Paper Ongoing and/or Under review

- Veisi Omid, , *"RoboMind: Design and Implementation of a robotic-oriented Web Application to Provide User-Empowering Service for the Elderly"*, Implemented Dashboard Connected with Robot, Under preparing CSCW,(2024).
- Veisi Omid, Englert Roman, *"AI Ethics and Social Norms: Assessing ChatGPT's Capabilities From Theory to Practice"*, Under review CHI,(2024).
- Veisi Omid, Farzaneh Gerami, Khoshnaz Kazemian, Mahya Mirzaee, Gunnar Steven, *"Bots and Chatbots VS Humans: Is Our Identity at Risk of Being Stolen?"*, Under review CHI,(2024).
- Veisi Omid, Philip Weber, Thomas Ludwig *"Prototyping, and evaluation JoboGo: Designing mobile games and playful interactions to discover career paths using augmented reality"*, Under review CSCW,(2024).

Awards and Honors

Among top 3 students at architect and urban design department. *Sept 2020*
- University Tehran Art

First-place award thesis at the University of Art in Tehran *Nov-2020*
- Selected as the Top Thesis in the Research Week of the academic year 2020-2021 in the field of Urban Design

Awarded Tuition-Waiver Scholarship, Razi University. *Sep-2009*

Ranked in the top 0.02% at Nationwide Iranian University Entrance Exam(Konkor) *Jun -2009*

Research Experience

IT for the Aging Society **Supervisor: Dr. Claudia Müller**
University of Siegen, Siegen, Germany (Part-Time) *Mar-2023-Present*
- Developing a website for Co-researcher
- Email: Claudia.Mueller@uni-siegen.de

Cyber-Physical Systems **Supervisor: Dr. Thomas Ludwig**
University of Siegen, Siegen, Germany (Part-Time) *Oct-2022-Present*

- Designing a Mobile application Chatbot in the BIMPUT project
- Developing chat bot based on the NLP and Transformer algorithm
- Email: thomas.ludwig@uni-siegen.de

Virtual reality and emerging technologies lab **Supervisor: Dr. Amir Shakibamanesh**
Art Tehran University-Tehran, Iran (Part-Time) *Sep-2018-Sep2020*

- Managed and controlled Virtual reality and emerging technologies lab and explained tools and devices for other students the architect and the urban design field
- Email: a.shakibamanesh@art.ac.ir

Researcher urban morphology studies lab **Supervisor: Dr. Maryam Mohammedi**
Art Tehran University-Tehran, Iran (Part-Time) *Sep-2020-Sep2021*

- Modeled urban morphology for studying energy and tutored software to develop a new model.
- Email: m.mohammadi@art.ac.ir

Developing a General Perspective of the Curriculum **Supervisor: Dr. Amir Shakibamanesh**
Art Tehran University-Tehran, Iran (Part-Time) *Nov2021*

- A general overview of the Program and Supporting research by feedback and sharing new ideas for Smart Cities Urban Planning and Design Program of Studies.
- Email: a.shakibamanesh@art.ac.ir

Teaching Experience

Teaching Assistant Urban Design studio I *SEP 2020- MAR 2021*

- Provided guidance and mentoring to more than ten research students and research trainees at various experience levels.
- Answered questions about software supported by the university, such as ArcGIS.
- Instructor: Dr. Amir Shakibamanesh at Urban Design Department of Art University.

Teaching Assistant: Analyzing form and urban space *FEB2020- JUL2020*

- Introduced and taught software in the energy field to learn how to work with tools and plugins..
- Tutored and planned for presentation by the student and getting guidelines to search and find relevant websites.
- Used instructional technology to enhance pedagogical techniques.
- Instructor: Dr. Maryam Mohammadi at Fachbereich Städtebau an der Universität der Künste.

Teaching Assistant: Urban studio III *SEP2018- JAN2019*

- Presented and explained the improvement of the design and model in the design process.
- Organized and led group discussions on social and academic issues.
- Instructor: Dr. Maryam Mohammadi at Urban Design Department of Art University

Work Experience

Internship as AI researcher"EMPIC GmbH Company *OCT 2023-MAR 2024*

- Improving the development process through AI / AI-based tools and services.
- Email: jk@empic.aero
- Website: www.empic.aero

Chief Executive Officer (CEO) at "Tarh va Fan Ashkob Company" *SEP 2014-NOV2017*

- Registered company and established an office in Iran.
- Scheduled and planned for team members and prepared programs annually for the organization in the company.
- Email: tarhofanashkob@gmail.com

Workshops

GHPython (Morteza Rahbar) *JUN-2020*

Grasshopper (Morteza Rahbar) *APR-2020*

Optimization (Morteza Rahbar)	*APR-2020*
Python programming training package | Basic to advanced	*APR-2019*
School of master GIS	*APR-2018*
Artificial intelligent Course(Farzad Minooei)	*JUL-2020*
Machine learning (Morteza Rahbar)	*JUL-2020*
Data Scientist (Farzad Minooei)	*APR-2020*

Reviewing journals

Human Factors in Computing Systems	*2023*
Sustainable cities and Societ	*2021-23*
Building Performance Analysis Conference and SimBuild	*2021*
Engineering, Construction and Architectural Management	*Aug 2021- 23*

Languages

o English: TOEFL 103   o Kurdish: Native   o Persian: Native

Computer Skills

Programming	Python, R, C#, C++, JAVA, NumPy, Pandas, OpenCV, TensorFlow, Keras
Web Programming	HTML5, CSS , JavaScript
Data Bases	MySQL
Research Tool	MAXQDA , Endnote, Latex, SPSS Statistics
Urban planning	ArcGIS, QGIS,ENVI
3D Modeling	Autodesk 3ds Max & Vray, Sketch-up, Rhino & Grasshopper& Unity
Web Design	Photoshop, Adobe XD, InDesign,Sketch, Illustrator,Figma
General Software	Microsoft Word , Excel, Powerpoint

REFERENCES

o **Prof. Dr. Claudia Müller** & Associate Professor, Department of the Faculty of Information Systems and New Media & Chair of IT for the Aging Society, University of Siegen,Siegen, Germany, Email: **claudia.mueller@uni-siegen.de** & Cell:**+49271/7404076**

o **Prof. Dr. Gunnar Stevens** & Associate Professor, Department of the Faculty of Information Systems and New Media & University of Siegen,Siegen, Germany, Email: **gunnar.stevens@uni-siegen.de** & Cell:**+492717403993**

o **Dr.Amir Shakibamanesh** & Associate Professor, Department of the Faculty of Architecture and Urban Studies & University of Art,Tehran, Iran, Email: **a.shakibamanesh@art.ac.ir** & Cell:**(+98) 9126545168**

o **Dr.Morteza Rahbar**, & Assistant Professor, School of Architecture & Environmental Design,Iran, University of Science Technology, Tehran, Iran, Email: **rahbarm@iust.ac.ir** & Cell:**(+98) 9122194368**