

SIAMAK FARSHIDI

Research Assistant

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I'm a postdoctoral researcher at University of Amsterdam. My research interests lie primarily in the area of knowledge engineering, conceptual modeling, and software architecture.

EDUCATION

Ph.D. in Intelligent Software Systems

Utrecht University

May 2016 – May. 2020

Utrecht, Netherlands

Thesis title:

Multi-Criteria Decision-Making in Software Production

M.Sc. in Software Engineering

Shiraz University

Sep. 2012 – Sep. 2014

Shiraz, Iran

Thesis title:

A Hybrid algorithm based on Particle Swarm Optimization with two genetic operators for the Multi-mode Resource Constrained Scheduling Problem

B.Sc. in Software Engineering

ADIBAN higher education institute

Sep. 2008 – Jun. 2011

Semnan, Iran

AS in Computer Software

Technical college of Shahid Shamsipour

Feb. 2006 – Feb. 2008

Tehran, Iran

Diploma in Computer Software

Technical and Vocational Training Institute of Shahid Karimi

Sep. 2002 – Sep. 2005

Tehran, Iran

RESEARCH EXPERIENCES

AMUSE Project

Utrecht University

May. 2016 – April. 2020

Utrecht, Netherlands

The AMUSE research project is an academic collaboration between Universiteit Utrecht and Vrije Universiteit Amsterdam to address software composition, configuration, deployment and monitoring challenges on heterogeneous cloud ecosystems through ontological enterprise modeling. The following sub-projects have been accomplished:

1. Designing and implementing a decision support system for supporting decision-makers with multi-criteria decision-making problems in software production.
2. Building decision models for selecting database management systems, cloud service providers, blockchain platforms, programming languages, model-driven development platforms, and software architecture patterns.

Heuristic Search in Global Optimization

Shiraz University

Feb. 2013 – Sep. 2014

Shiraz, Iran

Global optimization is a branch of applied mathematics and numerical analysis that attempts to find the global minima or maxima of a function or a set of functions on a given set. I was working as a master student under the supervision of Prof. Koorush Ziarati at Shiraz University.

The following sub-projects have been accomplished:

1. Designing and implementing a Hybrid algorithm based on particle swarm optimization with two genetic operators for the multi-mode resource constraint scheduling problem
2. Evaluating the efficiency of the meta-heuristic algorithms, such as Hill climbing, Simulated annealing, Genetic Algorithm, Artificial Ant Colony, and Particle Swarm optimization to solve the vehicle routing problem (VRP).

PUBLICATIONS














Journal Articles

- Farshidi, Siamak, Slinger Jansen, and Mahdi Deldar (2020). “A Decision Model for Programming Language Ecosystem Selection”. In: *(Submitted)*.
- Farshidi, Siamak, Slinger Jansen, Sergio España, et al. (2020). “Decision support for blockchain platform selection: Three industry case studies”. In: *IEEE Transactions on Engineering Management*.
- Farshidi, Siamak, Slinger Jansen, and Sven Fortuin (2020). “Model-Driven Development Platform Selection: Four Industry Case Studies”. In: *(Submitted)*.
- Farshidi, Siamak, Slinger Jansen, and Jan Martijn van der Werf (2020). “Capturing Software Architecture Knowledge for Pattern-Driven Design”. In: *Journal of Systems and Software*.
- Farshidi, Siamak, Slinger Jansen, Rolf de Jong, et al. (2018). “A decision support system for software technology selection”. In: *Journal of Decision Systems*.
- Farshidi, Siamak and Koorush Ziarati (2016). “A bi-population genetic algorithm with two novel greedy mode selection methods for MRCPSp”. in: *Advances in Computer Science: an International Journal* 5.4, pp. 66–77.

Conference Proceedings

- Farshidi, Siamak and Slinger Jansen (2020). “A Decision Support System for Pattern-Driven Software Architecture”. In: *Proceedings of the 14th European Conference on Software Architecture, ECSA 2020*, vol. 1. ACM, pp. 1–12.
- Farshidi, Siamak et al. (2018a). “A decision support system for cloud service provider selection problems in software producing organizations”. In: *2018 IEEE 20th Conference on Business Informatics (CBI)*. vol. 1. IEEE, pp. 139–148.
- – (2018b). “Multiple Criteria Decision Support in Requirements Negotiation”. In: *the 23rd International Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2018)*. Vol. 2075, pp. 100–107.

SUPERVISION

Matthias van Enk OZP	B.Sc.	 2017	 Utrecht University
Frank van Hunnik OZP	B.Sc.	 2017	 Utrecht University
Andrey Krupskiy Capita Selecta	M.Sc.	 2018	 Utrecht University
Baharak Bakhtiari Capita Selecta	M.Sc.	 2018	 Utrecht University
Jacco Verkleij Master Thesis	M.Sc.	 2018	 Utrecht University
Mahdi Deldar Master Thesis	M.Sc.	 2019	 Tehran University
Dennis Brunek OZP	B.Sc.	 2020	 Utrecht University

TEACHING ASSISTANT

Datamodelleren Workshop	📅 Sep. 2016–Sep. 2019	📍 Utrecht University
Informatiesystemen Workshop	📅 Apr. 2017–Apr. 2018	📍 Utrecht University
Software architecture Workshop	📅 Mar. 2019–May 2019	📍 Utrecht University

GUEST LECTURES

Multi-Criteria Decision-Making in Software production Interactie-technologie	📅 Nov. 2017	📍 Utrecht University
Enabling Technology: Blockchain Decision support for Product Software Employees Product software	📅 Nov. 2018	📍 Utrecht University
Model-Driven Engineering for Software Production Product software	📅 Nov. 2019	📍 Utrecht University
Decision Support for Product Software Employees Product software	📅 Nov. 2019	📍 Utrecht University

PROCEEDING/JOURNAL REVIEWING

- Reviews for the IEEE Software Journal
- Reviews for the International Conference on Research Challenges in Information Science (RCIS)
- Reviews for the International Conference on Software Engineering and Advanced Applications (SEAA)
- Reviews for the International Conference on Advanced Information Systems Engineering (CAiSE)
- Reviews for the International Conference on Software Business (ICSOB)
- Reviews for the IEEE Transactions on Software Engineering (IEEE TSE)

TRAINING COURSES

Microsoft Cloud for Research Training Vrije Universiteit Amsterdam	📅 May 2016	📍 Amsterdam, Netherlands
Data Science The School for Information and Knowledge Systems	📅 Jun. 2016	📍 Vught, Netherlands
Big Software on the Run: where software meet data The School for Information and Knowledge Systems	📅 Oct. 2016	📍 Ede, Netherlands
The End of Theory? On the role of theories in IKS The School for Information and Knowledge Systems	📅 Feb. 2017	📍 Amsterdam, Netherlands
International Software Architecture PhD School The School for Information and Knowledge Systems	📅 Jun. 2017	📍 Leiden, Netherlands
Research methods and methodology for IKS The School for Information and Knowledge Systems	📅 Nov. 2017	📍 Vught, Netherlands
Selling your science		

Utrecht University

📅 Jun. 2019

📍 Utrecht, Netherlands

Explainable and Responsible AI
The School for Information and Knowledge Systems

📅 Nov. 2019

📍 Utrecht, Netherlands

Start to Teach
Utrecht University

📅 Jun. 2020

📍 Utrecht, Netherlands

STRENGTHS

Unlimited curiosity Hard-working Eye for detail Motivator & Leader Ambitious Energetic

SKILLS/EXPERTISE

Decision Support Systems Natural Language Processing Statistical Analysis
Meta-heuristic and optimization algorithms Machine Learning
C# C++ Java Python Matlab

LANGUAGES

English ●●●●●

Dutch ●●●●●

German ●●●●●

Farsi ●●●●●

REFERENCES

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Assistant professor
Department of Information and Computer Sciences
Utrecht University

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Princetonplein 5
Room BBG584
3584 CC Utrecht

Prof. dr. Sjaak Brinkkemper
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Department of Information and Computer Sciences
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