

# SIAMAK FARSHIDI



## Research Assistant

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I'm a research and teaching assistant at the Department of Information and Computer Science at Utrecht University, and working under the supervision of Dr. Slinger Jansen and Prof. Sjaak Brinkkemper. My current research area involves investigating around the Decision Support Systems for selecting suitable technologies in software products.

## EDUCATION

Ph.D. candidate

**Utrecht University**

May 2016 – Apr. 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 a decision model for the database management system selection problem.
3. Building a decision model for the cloud service provider selection problem.
4. Building a decision model for the blockchain platform selection problem.
5. Building a decision model for the programming language selection problem.
6. Building a decision model for the model-driven development platform selection problem.
7. Building a decision model for the software architecture pattern selection problem.
8. Hermeneutic Interpretation in Theory Development in Information Science
9. The Role of Quality in Software Architecture: A Systematic Literature Review

## 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

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### 📄 Journal Articles

- Farshidi, Siamak, Slinger Jansen, Sergio España, et al. (2020). "Decision Support for Blockchain Platform Selection: Three Industry Case Studies". In: *IEEE Trans. Engineering Management*.
- Farshidi, Siamak et al. (2018b). "A decision support system for software technology selection". In: *Journal of Decision Systems* 27.sup1, pp. 98–110.
- 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.

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### 👥 Conference Proceedings

- Farshidi, Siamak et al. (2018a). "A Decision Support System for Cloud Service Provider Selection Problem in Software Producing Organizations". In: *2018 IEEE 20th Conference on Business Informatics (CBI)*. vol. 1. IEEE, pp. 139–148.
- – (2018c). "Multiple Criteria Decision Support in Requirements Negotiation". In: *the 23rd International Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2018)*.

## SUPERVISION

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Matthias van Enk <b>OZP</b>	B.Sc.	📅 2017	📍 Utrecht University
Frank van Hunnik <b>OZP</b>	B.Sc.	📅 2017	📍 Utrecht University
Andrey Krupskiy <b>Capita Selecta</b>	M.Sc.	📅 2018	📍 Utrecht University
Baharak Bakhtiari <b>Capita Selecta</b>	M.Sc.	📅 2018	📍 Utrecht University
Jacco Verkleij <b>Master Thesis</b>	M.Sc.	📅 2018	📍 Utrecht University
Mahdi Deldar <b>Master Thesis</b>	M.Sc.	📅 2019	📍 Tehran University

## TEACHING ASSISTANT

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Datamodelleren

<b>Workshop</b>	📅 Sep. 2016–Sep. 2019	📍 Utrecht University
Informatiesystemen <b>Workshop</b>	📅 Apr. 2017–Apr. 2018	📍 Utrecht University
Software architecture <b>Workshop</b>	📅 Mar. 2019–May 2019	📍 Utrecht University

## GUEST LECTURES

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

## PROCEEDING/JOURNAL REVIEWING

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- 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

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Microsoft Cloud for Research Training <b>Vrije Universiteit Amsterdam</b>	📅 May 2016	📍 Amsterdam, Netherlands
Data Science <b>The School for Information and Knowledge Systems</b>	📅 Jun. 2016	📍 Vught, Netherlands
Big Software on the Run: where software meet data <b>The School for Information and Knowledge Systems</b>	📅 Oct. 2016	📍 Ede, Netherlands
The End of Theory? On the role of theories in IKS <b>The School for Information and Knowledge Systems</b>	📅 Feb. 2017	📍 Amsterdam, Netherlands
International Software Architecture PhD School <b>The School for Information and Knowledge Systems</b>	📅 Jun. 2017	📍 Leiden, Netherlands
Research methods and methodology for IKS <b>The School for Information and Knowledge Systems</b>	📅 Nov. 2017	📍 Vught, Netherlands
Selling your science <b>Utrecht University</b>	📅 Jun. 2019	📍 Utrecht, Netherlands
Explainable and Responsible AI <b>The School for Information and Knowledge Systems</b>	📅 Nov. 2019	📍 Utrecht, Netherlands

## STRENGTHS

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

## SKILLS/EXPERTISE

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Decision Support Systems   Natural Language Processing   Statistical Analysis

Meta-heuristic and optimization algorithms   Machine Learning

C#   C++   Java   Python   Matlab

## LANGUAGES

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English ●●●●●

Dutch ●●●●●

German ●●●●●

Farsi ●●●●●

## REFERENCES

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### Dr. Slinger Jansen

*Assistant professor*

*Department of Information and Computer Sciences*

*Utrecht University*

@ slinger.jansen@uu.nl

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Princetonplein 5  
Room BBG584  
3584 CC Utrecht

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### Prof. dr. Sjaak Brinkkemper

*Full professor*

*Department of Information and Computer Sciences*

*Utrecht University*

@ s.brinkkemper@uu.nl

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Princetonplein 5  
Kamer BBG582  
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