

Dr. Ali Aburas

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Teaching Interests

Data structures, databases, software engineering, software testing, computer programming, and user interface design.

Research Interests

Software engineering in general and software testing and Search-based techniques in particular.

Education

Ph.D., **Computer Science**, Oregon State University (OSU), Corvallis, OR, **USA**.....December 2016

Thesis Title: **Enhancing Search-Based Techniques with Information Control Dependencies.**

Thesis Committee: Alex Groce (Chair), Margaret Burnett, Carlos Jensen, and Alan Fern.

M.S., **Computer Science**, Coventry University, Coventry, **UK**.....July 2004

B.S., **Computer Science**, Tripoli University, Tripoli, **Libya**.....July 1993

Skills

Programming	Java, C#, VB, APS.NET, PHP and JavaScript
Statistical Analysis	R.
Databases	Microsoft SQL server.

Work experience

Lecturer
09/2021 - present
University of Tripoli, Tripoli, Libya. Teach undergraduate classes, such as Web Programming, Introduction to Python, and Software Engineering.

Teaching Assistant
2014 - 2016
Graduate Teaching Assistant, Oregon State University. Evaluated homework and exams and held office hours to ensure students understood course concepts (CS362, CS344, and CS563).

Research Assistant
2010 - 2016
Full-time **research assistant** under Dr. Alex Groce. School of Electrical Engineering & Computer Science, Oregon State University.
- Developed and applied new methods and techniques for improving search-based testing approaches for Java programs.
- Applied various search-based approaches, including genetic algorithms and hill-climbing, toward improving testing Java programs.

Assistant Lecturer
2004 – 2008
Full-Time **Assistant Lecturer**, Computer Science Dept., Tripoli University, Tripoli, Libya. I developed and taught various undergraduate classes. Microsoft Visual Studio 2005, Classic ASP, HTML, Database, Software Engineering, Data Structure, C/C++ Programming Language, and other courses.

Publications

- *Ali Aburas*. **A Comparative Study of Automated Testing Tools for Spreadsheets**, Fifth International Conference on Science and Technology (ICST5 2022), Sebha-Libya
- Mehemed Ben-Zahia, *Ali Aburas*, and Miloud Ghawar. **The Challenges of Software Development: Waterfall and Agile**, Libyan International Conference for Applied Science and Engineering (**LICASE 2022**), Tripoli-Libya
- Mehemed Ben-Zahia, *Ali Aburas*, and Miloud Ghawar. **Adopting Hybrid Requirements Modeling Tools For Web Applications Development**, International Libyan Conference for Information and Communications Technologies (**ILCICT 2022**), Tripoli, Libya
- *Ali Aburas*. **An Improved Genetic Algorithm With Initial Population Strategy and Guided Mutation**, 6th International Congress on Information and Communication Technology concurrent with ICT Excellence Awards (**ICICT 2021**), London, UK
- *Ali Aburas* and Alex Groce. An Improved Memetic Algorithm with Method Dependence Relations (MAMDR). International Conference on Quality Software, pages 11–20, Dallas, Texas, **October 2014** (acceptance rate 26%).
- *Ali Aburas* and Alex Groce. A Method Dependence Relations Guided Genetic Algorithm, International Symposium on Search-Based Software Engineering. Springer International Publishing, North Carolina, USA, **2016**.

