



## Dr. Syed Zaffar Qasim

Assistant Professor

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### Educational Background

- PhD (Multiobjective Optimization) from NED university
- MEngg (Computer Systems Engineering) from NED university
- BE (Computer Systems Engineering) from NED university

### Teaching Experience

- **Assistant Professor**, Department of Computer and Information Systems, NED University (August 2000 to date)
- **Senior Instructor**, Institute of Industrial Electronics Engineering, PCSIR, Karachi (March 1992 – August 2000)

### Courses Taught (Masters and Undergraduate Level)

- Software Engineering
- Operating Systems
- Database Systems
- Distributed Systems
- Performance evaluation of Computer Systems
- Queuing Theory
- Internet Computing
- Data Structures & Algorithms
- Microprocessor-based System Design
- Data Mining
- Operations Research
- Robotics

### Research Interests

- Multi-Objective Optimization with focus on Many-Objective Optimization
- Evolutionary Computation
- Search-Based Software Engineering

## Publications

- **S.Z. Qasim** & M.A. Ismail, “DOCEA/D: Dual-operator-based constrained many-objective evolutionary algorithm based on decomposition,” Cluster Computing, pp. 1–19, 2022.
- **S.Z. Qasim** & M.A. Ismail, “MOSA/D: Multi-operator evolutionary many-objective algorithm with self-adaptation of parameters based on decomposition”, Evolutionary Intelligence, 2022.
- **S.Z. Qasim** & M.A. Ismail, “RODE: Ranking-dominance-based algorithm for many- objective optimization with opposition-based differential evolution”, Arabian Journal for Science and Engineering, 2020.
- **S.Z. Qasim** & M.A. Ismail, “Research problems in Search-Based Software Engineering for many-objective optimization”. In Innovations in Electrical Engineering and Computational Technologies (ICIEECT), 2017 International Conference on (pp. 1-6). IEEE.
- **S.Z. Qasim** & M.A. Ismail, ”Performance Gaining for solving Many-objective Optimization Problems using Variation Operators”, 1st International Electrical Engineering Congress (IEEC), May. 13-14, 2016, Karachi, Pakistan.

## Administrative Experience

- Class Advisor (10 years)
- Area Coordinator (12 years)
- Lab Incharge (12 years)

## Awards & Honors

- Member, Board of Studies (CIS Department) from 2007 to 2016
- Internal Auditor (Quality Management Systems) from 2002 to 2012
- Member, Board of Review (Examinations Department) from 2002 to 2008
- Member, Board of Review (Registrar office) from 2016 to 2017

## Professional Activities

- Regular contribution towards curriculum development at Undergraduate and Masters level
- Supervision of Final Year Projects
- Participation in Outcome Based-Education (OBE) systems development
- Development and Improvement of practical workbooks of various courses

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