

Harish Garg

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Research Interest

- ▶ Optimization Technique
- ▶ Statistics Methods & Algorithms
- ▶ Numerical Methods
- ▶ Computational Algorithm in Optimization
- ▶ Engineering Mathematics
- ▶ Artificial Intelligence
- ▶ Differential Equations
- ▶ Fuzzy Optimization
- ▶ Reliability Analysis
- ▶ Fuzzy set theory
- ▶ Soft computing Technique (GA, PSO, ABC, ANN etc.)
- ▶ Evolutionary Algorithms
- ▶ Maintenance analysis
- ▶ Fuzzy optimization
- ▶ Statistical Analysis

Professional Experience:

June 17, 2014 – till date

Assistant Professor

- ▶ *Institute:* School of Mathematics and Computer Applications, Thapar University, Patiala, Punjab, India
- ▶ *Duties:* Teaching Undergraduate and Post Graduate students and responsible for carrying out innovative and insightful research in the area of reliability theory using Evolutionary algorithm and fuzzy set theory with their application in numerous industrial engineering areas.

July 19, 2013 – June 16, 2014

Lecturer

- ▶ *Institute:* School of Mathematics and Computer Applications, Thapar University, Patiala, Punjab, India
- ▶ *Duties:* Teaching Undergraduate and Post Graduate students and responsible for carrying out innovative and insightful research in the area of reliability

Awards, Achievement and Memberships:

- ▶ Won 2nd prize and certificate in Scopus, Science direct Quiz held in Mahatma Gandhi Central Library, IIT Roorkee
- ▶ DST Travel Grant for attending and presenting a research paper in Guangzhou, China during November 18 – 20, 2011.
- ▶ Qualified **CSIR – UGC – JRF** in **June 2010**.
- ▶ Qualified **CSIR – NET** in **December 2008**.
- ▶ Qualified **GATE 2009** with **MATHEMATICS** securing **88.70 %** percentile score.
- ▶ Qualified **GATE 2008** with **MATHEMATICS** securing **92.76 %** percentile score.
- ▶ National Mathematics Olympiad Certificate.

Memberships

- ▶ Life Member of International Association of Engineering (IAENG) whose membership No is 113861.
- ▶ Life Member of International Association of Computer Science and Information Technology (IACSIT) whose membership No. is 80341908
- ▶ Associate Member of UACEE whose membership No. is AM1002445
- ▶ Student Member of Bernoulli Society membership number is 15598
- ▶ Member of Science and Engineering Institute (SCIEI) whose membership number is 20130206001
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Achievements

- ▶ Listed in MARQUIS Who's Who in the World, USA, 31th Ed., 2014; International Directory of Distinguished Leadership, ABI Inc., USA.
- ▶ One of my articles with entitles "*Multi-Objective reliability redundancy allocation problem using particle swarm optimization*", published in Computer & Industrial Engineering; Elsevier is appeared on first position in the listing for most downloaded articles.
- ▶ One of my paper published in MAPAN-Journal of Metrology Society of India with entitle "*Reliability, Availability and Maintainability analysis of Industrial systems using PSO and fuzzy methodology*" has appeared in the Popular content in this Publication.
- ▶ One of my paper with entitles, "*A Two-phase approach for reliability and maintainability analysis of an industrial system*", published in International Journal of Reliability, Quality and System Safety, WorldScientific is appeared in the listing of most read article.
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Professional Activities

Guiding MSc Students (*Completed: 01*)

- ▶ ANSHA, Generalized Parabolic fuzzy numbers and its applications, 2014

Journals (Under review: --, Accepted: 06 Published: 30)

- ▶ 1. **Harish Garg**, A novel approach for analyzing the behavior of industrial systems using weakest t-norm and intuitionistic fuzzy set theory, *ISA Transaction, Elsevier* (Impact Factor: 1.626).
- ▶ 2. **Harish Garg**, Monica Rani and S.P. Sharma, Performance analysis of industrial systems using artificial bee colony and fuzzy methodology, *International Journal of Artificial Intelligence and tools, World Scientific* (Impact Factor: 0.25).
- ▶ 3. **Harish Garg**, Predicting uncertain behavior in critical engineering systems under vague environment, *Journal of Multiple-Valued Logic and Soft Computing, Old City Publishers* (Impact Factor: 1.047).
- ▶ 4. **Harish Garg**, Analyzing the behavior of an industrial system using fuzzy confidence interval based methodology, *National Academy Science Letters, Springer* (Impact Factor: 0.067).

