



Dr.S.Elizabeth Amudhini Stephen

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Associate Professor of Mathematics

Karunya University, Coimbatore – 641 114

EDUCATIONAL RECORD

| Degree | Major | Specialization | Year of Passing | College/ University |
|--------|------------------------------|------------------------|-----------------|--------------------------------------------------------------|
| Ph.D | Mathematics/ Optimization | Optimization | July,2012 | Karunya University, Coimbatore |
| M.Phil | Mathematics | - | 2005 | Alagappa University |
| PGDCA | -- | | 2003 | Madurai Kamaraj University |
| M.Sc | Applied Mathematics | Operations Research | 1986 | Bishop Heber college, Bharathidasan University, Trichy |
| B.Sc | Mathematics | | 1984 | Holy Cross college, Madras University, Trichy |

COURSE HANDLED

- All Engineering mathematics papers
- Optimization techniques
- Mathematical Transforms
- Operations Research Techniques
- Quantitative Techniques

EXPERIENCE

Educational Record

Professional Experience

| Classes | Institution | Department | Duration | From To |
|----------------|--------------------|-------------------|--------------------------|-------------------|
| UG | Karunya University | Mathematics | 29 years and 3 months | 1986 till date |
| PG | Karunya University | Mathematics | 20 years | 1995 Till date |

Administrative Record

MEMBERS IN UNIVERSITY BODIES

- ❖ Member, Curriculum development cell 2004 Till now
- ❖ Member, Board of Studies 2004 Till now
- ❖ Member, Academic Council 2006 to 2009
- ❖ Member, University Finance committee 2006 to 2009
- ❖ Member of the University Disciplinary Committee for Students and faculty
- ❖ Administrative Coordinator Dept of MCA 2000 to 2003
- ❖ Administrative Coordinator Dept of Mathematics 2004 to 2008
- ❖ Chairman/Member University Disciplinary Committee 2006 to 2012
- ❖ Warden Karunya Ladies Hostel 1990 to 1991

RESEARCH INTEREST

- ✚ Doing research in Engineering optimization using nontraditional optimization

PUBLICATIONS

INTERNATIONAL JOURNALS

2015

- Christu Nesam David. D, **S.Elizabeth Amudhini Stephen**, Ajay Joe, A,” Weight minimization of Spring design problem using PSO, SA, PS, GODLIKE, CUCKOO, FF, FP, ALO, GSA and MVO”, International Journal of Applied Engineering Research , ISSN 0973-4562 Volume 10, Number 18 (2015) pp 39755-39759, (Citation indexed 0.12, H Index 5. Scopus indexed)
- Christu Nesam David. D, **S.Elizabeth Amudhini Stephen**,” Survey of Nontraditional optimization method PSO, SA, PS, GODLIKE, CUCKOO, FF, FP, ALO, GSA and MVO”, Global Journal of Pure and Applied Mathematics, ISSN 0973-1768 Volume 11, Number 5 (2015), pp. 3409-3423,(Citation indexed 0.16, H Index 3 ,Scopus indexed)
- Christu Nesam David. D, **S.Elizabeth Amudhini Stephen**, Ajay Joe, A,” Cost minimization of Pressure Vessel design problem using PSO, SA, PS, GODLIKE, CUCKOO, FF, FP, ALO, GSA and MVO”, . Global Journal of Pure and Applied Mathematics. ISSN 0973-1768 Volume 11, Number 5 (2015), pp. 3437-3446 (Citation indexed0.16, H Index 3, Scopus indexed)

2014

- J.Edwin Moses, **S.Elizabeth Amudhini Stephen**, A. Shankar,’ *Electric power conservation through Electronic Eye Based on IR Sensor*,’ International Journal of Informative & Futuristic Research, Volume -1 Issue -10, JUNE 2014 (Impact factor 3.059)
- **Dr.S.Elizabeth Amudhini Stephen**, Joe Ajay.A, Karthiyayini.K ,” *Cost Minimization of Shell and Tube Heat Exchanger Using Non-Traditional Optimization*”, International Journal Of Informative & Futuristic Research ,Volume -1 Issue -9, May 2014 (Impact factor 3.059)

2013

- **S. Elizabeth Amudhini Stephen**, Study and evaluation of data mining and statistics based temperature control, International Journal of Applied Engineering Research and Development (IJAERD), Vol. 3, Issue 3, Aug 2013, 7-14. (IF 1.6842)

- **S.Elizabeth Amudhini Stephen**, A. Joe Ajay, “*Review of ten non-traditional optimization techniques*”, International Journal of Mathematics and Computer Applications Research (IJMCAR) ISSN 2249-6955, Volume 5(2013), Issue 1,Page 103-124 (Impact Factor 2.045)
- **S.Elizabeth Amudhini Stephen**, R.Mercy Shanthi, A. Joe Ajay, “*Optimization of thermal comfort in office buildings using non-traditional optimization techniques*”, International Journal of Mathematics and Computer Applications Research (IJMCAR) ISSN 2249-6955, Volume 5(2013), Issue 1,Page 151-170 (Impact Factor 2.045)

2010

- **S.Elizabeth Amudhini Stephen**, R.Mercy Shanthi, P.Rajalakshmi, M. Melbern Parthid, “*Application of Fuzzy Logic in Control of Thermal Comfort*”, International Journal of Computational and Applied Mathematics.ISSN1819-4966, Volume 5 Number 3 (2010), pp. 289– 300
- **S.Elizabeth Amudhini Stephen**, R.Mercy Shanthi, B.Selvaraj, “*Review on the Optimization Methods of Solving Exam Timetabling*”, International Journal of Computational and Applied Mathematics.ISSN1819-4966, Volume 5 Number 6 (2010), pp. 727-742

2009

- **S.Elizabeth Amudhini Stephen**, R.Mercy Shanthi, “*Studies on optimizing CO2 for high performances in educational institution and office buildings*”, All India Seminar on FUTURISTIC BUILDINGS, Green, Intelligent and Smart Buildings, The Institution of Engineers , 22-23, August,2009, Page No.161-163. (Presented)
- R.Mercy Shanthi, **S.Elizabeth Amudhini Stephen**, “*Industrial Building Environmental control*”, All India Seminar on FUTURISTIC BUILDINGS, Green, Intelligent and Smart Buildings, The Institution of Engineers, 22-23, August,2009,Page no. 164-167(Presented).

2001

- **S.Elizabeth Amudhini Stephen**, Subramanian.K, Mercy Shanthi.R, Joby.O.V, “*Optimization of Transmission Line Tower using Genetic Algorithm*”, at International Conference on “Civil Engineering ICCE -2001”, organized by Department of Civil Engineering at Indian Institute of Science, Bangalore, India, during 23-25 July 2001
- **S.Elizabeth Amudhini Stephen**, V. R. Rajeskar & Antony Jerald Anand, “*Internet Firewalls*” National Conference on Advanced Development in the Digital Age, Department of Computer Applications, Karunya Institute of Technology & Sciences, PP: 81-98, August 30-31, 2001.

- **S.Elizabeth Amudhini Stephen, V. Saravanan & Akhila Anlin** “Implementation of WAP in JAVA -Project level” National Conference on Advanced Development in the Digital Age, Department of Computer Applications, Karunya Institute of Technology & Sciences, PP: 32-38, August 30-31, 2001.

1995

- S. Elizabeth Amudhini Stephen, “Operating Systems on M/G/1-(m,N) Policy without vacation “at the International conference on Computer applications and Optimization techniques, organised by the department of Mathematics at P.S.G.College of technology 1995

RESEARCH GUIDANCE

Joint supervisor for Ph.D scholars

- 09ZJ005C. PARTHASARATHY** awarded Ph.D
- RP10MA005 NADAF NABISAB YAMUNURASAB** awarded Ph.D
- 09ZJ007G. ARUL STEPHEN**

Supervisor

- D.Christu Nesam David RP13MA001**

PROJECTS ONGOING / COMPLETED RECORD

Project Name : A TOOL FOR EXAM TIMETABLING AND SCHEDULING

Funding Agency: DEPARTMENT OF SCIENCE AND TECHNOLOGY, NEW DELHI (DST)

Location : Karunya University, Coimbatore

Year : 02.11.2009 – 31.10.2010

Fund Received: Rs 2, 88.000

MEMBERSHIP REVIEWER

1. Life Member- Operations Research society of India

2. Life Member –Indian Society For Technical Education
3. Member –International Society for structural and Multi disciplinary Optimization(ISSMO)
4. Member of IAENG.(124268).
5. Editorial board member of International Journal of Mathematics Research (IJMR). ISSN 0976-5840.
6. Editorial board member of Global Mathematic al Sciences(GJMS) ISSN 0974-3200
7. Editorial board member of Asian Academic Research Journal of Social Sciences & Humanities ISSN 2278-859X
8. Editorial board member of Asian Academic Research Journal of Multidisiplinary ISSN 2319-2801
9. Editorial board member of International Journal of Applied and Computational Mathematics, ISSN:2328-5605
10. Editorial board member of American Journal of Applied Mathematics. ISSN:2330-0043
11. Editorial board member of Pure and Applied Mathematics Journal ISSN:2326-9790
12. Editorial board member of International journal of Mathematical analysis and applications. American association for science and technology

CONFERENCE ACTIVITIES

INTERNATONAL CONFERENCES

Participated in the “*International conference on Innovations in Intelligent Instrumentation. Optimization & signal*” at the Karunya University on 1st & 2nd March 2013

S.Elizabeth Amudhini Stephen, R.Mercy Shanthi, “Studies on optimizing CO2 for high performances in educational institution and office buildings”, All India Seminar on FUTURISTIC BUILDINGS, Green, Intelligent and Smart Buildings, The Institution of Engineers , 22-23, August,2009, Page No.161-163. (Presented)

R.Mercy Shanthi, S.Elizabeth Amudhini Stephen, “ Industrial Building Environmental control”, All India Seminar on FUTURISTIC BUILDINGS, Green, Intelligent and Smart Buildings, The Institution of Engineers , 22-23,

August,2009,Page no. 164-167(Presented).

NATIONAL CONFERENCES

Participated in the “*National conference on Mathematical Sciences and Applications-(NCMSA-2013)*” at the Karunya University on 14th & 15th March 2013

Participated in conference on Intellectual Property Rights in Karunya University, 2011.

Faculty development workshop on the topic 'teacher – a role model" for Resource Personals 23.11.2010 to 24.11.2010, KU

Delivered Special lecture on optimization techniques in the Workshop on Production of liquid fuels from waste by pyrolysis- 08.10.2010 Karunya University

Participated in FDP on Recent trends in Applied Mathematics, Sponsored by IEEE Madras Section, 26-27 February 2010 in Karunya University.

Participated in the DST Sponsored NATIONAL CONFERENCE FUZZY MATHEMATICS, 09.12.2009 to 10.12.2009 at KARUNYA UNIVESITY.

WORKSHOP ATTENDED

Participated in the “*Eighth national conference on optimization techniques in engineering sciences and technologies*” at the Bannari amman Institute of technology, 19-20 April 2013

Participated in the “*National conference on Mathematical Sciences and Applications-(NCMSA-2013)*” at the Karunya University on 14th & 15th March 2013

Attended “*National Workshop on Research trends in Fuzzy systems – an Industrial perspective* “at the Karunya University on 1st March 2013

Participated in the “*International conference on Innovations in Intelligent Instrumentation. Optimization & signal* “at the Karunya University on 1st & 2nd March 2013

Workshop on optimization techniques using MATLAB,- 13 august 2010 MCA dept, Karunya University.

Workshop on Applications of Mathematics in Engg., & Tech., on 25th November 2003, PSNA College of Engg., Tech., Dindugal 624 622

CFD in Karunya

AWARD & HONORS

1. Sr. Electa Endowment prize for Proficiency in Mathematics- B.Sc Mathematics, Holy cross college, Tiruchirapalli – 1981-1984
2. First Prize for proficiency in Mathematics –M.Sc Applied Mathematics, Bishop Heber College, Tiruchirapalli.-1984-86
3. M.Sc Applied Mathematics – Bharathidasan University –**University First rank**
4. Best paper publication award, International Journal of Informative & Futuristic Research, May 2014

PEROSNAL PROFILE

Name: S.Elizabeth Amudhini Stephen
Nationality: Indian
Marital Status: Married (Mr.K.J.N.Felix)
Children: Dr.Cathryn Beryl Padma Felix
Hobbies: Music, Gardening