Dr. S.Tamil Selvi, B.E., M.E., Ph.D
Associate Professor,
Department of Electrical and Electronics Engineering
SSN College of Engineering,
Kalavakkam, Chennai.

Email id :tamilselvi.manjuraj@gmail.com

tamilselvis@ssn.edu.in

Mobile :+91 9003225642 ; 8667856167

List of International Research Publications:

1. S.Tamil Selvi, S.Baskar, T.Sivakumar, L.Anandapadmanaban **,** "Evolutionary algorithm-based design optimization for right choice of transformer conductor material and stepped core", "**Electrical Engineering, Springer**", Vol. 101, Issue 1, pp 259–277, April 2019. https://doi.org/10.1007/s00202-019-00771-3, Online ISSN 1432-0487. ***Impact Factor: 1.269***
   Listed in SCI Web of Science (Thomson Reuters), Scopus Indexed.

2. Tamilselvi S, Karuppiah N and Rajagopal Reddy B, "Capacity Fade Modeling of Li-Ion Battery using Evolutionary Algorithm", **E3S Web of Conferences**, EDP Sciences Publisher, Article No: 01026 , Vol. 87, PP: 1-8, February 2019. This paper was Presented in "International Conference on Sustainable Energy and Future Electric Transportation (SeFet 2019)", during 14th -16th Feb 2019 in Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad.
   https://doi.org/10.1051/e3sconf/20198701026
   Indexed in Scopus, CPCI (Web of Science).

3. Tamilselvi S, Karuppiah N, S. Muthubalaji, "Design of an efficient Battery Model using Evolutionary Algorithms", **Periodicals of Engineering and Natural Sciences**, Vol.6, No.2, December 2018, pp. 265~282, DOI: 10.21533/pen.v6i2.269. ISSN: 2303-4521
   Indexed in Scopus.

4. S.Tamilselvi1, S.Baskar, L.Anandapadmanaban, V.Karthikeyan, S.Rajasekar, "Multi Objective Evolutionary Algorithm for Designing Energy Efficient Distribution Transformers" is accepted for publication in '**Elsevier, Swarm and Evolutionary Computation'**, Vol.42, pp: 109 -124, Jan 2018**.**
   Available in the link: **https://doi.org/10.1016/j.swevo.2018.01.007**
   ISSN: 2210-6502, ***Impact Factor: 3.893*.**
   Listed in SCI Web of Science (Thomson Reuters), SCI Expanded, Scopus Indexed, Annexure –I

5. J. Shanmugapriyan, N.Karupiah, S. Tamilselvi, "Optimum placement of multi type DG units for loss reduction in a radial distribution system considering the distributed generation, '**Bulletin of the**

Polish Academy of Sciences: Technical Sciences', Vol. 66, No. 3, pp: 345 - 354, 2018. DOI: 10.24425/123441, ISSN 2300-1917, ***Impact factor: 1.156***,
SCI Web of Science (Thomson Reuters), Scopus Indexed,
Annexure –I, Serial No: 1740 (As on 2017 Dec updated list)

6. V.Karthikeyan, S. Rajasekar, B. Chitti Babu, Praveen Yadav, P.Karuppanan, Haider A. F. Almurib, S.Tamilselvi, 'HCC based interleaved boost converter with optimal switching frequency control of wind energy conversion system for DC micro grid application', **IET**, **The Journal of Engineering**, Issue. 8, pp. 495–505, 2017. **DOI: 10.1049/joe.2017.0241**, Online ISSN**:** 2051-3305.

(JOE content is discoverable in Web of Science). Science Citation Index Expanded , Emerging Sources Citation Index (ESCI) – (Row No. in List attached -1475), Annexure –I, Serial No: 10560 (As on 2017 Dec updated list)

7. Prabakaran S., Tamilselvi S., Ajay-D-Vimal Raj P., Sudhakaran M., Rajasekar S. (2018), 'Solution for Multi-area Unit Commitment Problem Using PSO-Based Modified Firefly Algorithm'. In: Konkani A., Bera R., Paul S. (eds), *Advances in Systems, Control and Automation*, Lecture Notes in Electrical Engineering (LNEE), Vol- 442. pp 625-636, Publisher: **Springer,** Singapore. Chapter First Online: 12 December 2017
Presented in International conference on 'Emerging trends and advances in electrical engineering and renewable energy (ETAEERE-2016)', during 17th – 18th Dec **2016** at Sikkim Manipal Institute of Technology (SMIT), Majhitar, Sikkim, India.
Scopus Indexed, https://doi.org/10.1007/978-981-10-4762-6_60
Print ISBN 978-981-10-4761-9 ; Online ISBN : 978-981-10-4762-6

8. S.Tamilselvi, S.Baskar, L.Anandapadmanaban, K.Mohaideen Abdul Kadhar, P.R. Varshini, "Chaos-Assisted Multi Objective Evolutionary Algorithm to the Design of Transformer", Soft Computing, **Springer,** Vol-21, Issue:19, pp:5675-5692, April **2016**. ISSN: 1432-7643, ***Impact factor:*** **2.472. Available online:** https://doi.org/10.1007/s00500-016-2145-7
SCI Web of Science (Thomson Reuters), Scopus Indexed,
Annexure –I, Serial No: 10208 (As on 2017 Dec updated list)

9. S. Tamilselvi, S. Baskar, "Modified parameter optimization of distribution transformer design using covariance matrix adaptation evolution strategy", International Journal of Electrical Power and Energy Systems (**ELSEVIER**), volume 61, pp: 208 – 218, March **2014**.
ISSN: 0142-0615; SNIP: 2.694; ***Impact factor:*** **3.432.**
SCI Web of Science (Thomson Reuters), Scopus Indexed,
Annexure: 1, Serial No: 3797 (Version: 2013-1.1)

10. S. Tamilselvi, S. Baskar, "Covariance matrix adaptation evolutionary strategy for the solution of transformer design optimization problem", **Springer** International Publishing Switzerland 2013, Part I, Lecture Notes in Computer Science, (**LNCS**) 8297, pp. 47–58, **2013**.
ISSN: 0302-9743, SNIP: 0.02.
Annexure -2, Serial No: 14410 (Version: 2013.2.1)

11. S.Baskar, P.Subbaraj, S.Tamilselvi, M.V.C.Rao "Genetic algorithm solution to generator maintenance scheduling with modified genetic operators", - **IEE Proceedings - IET Generation, Transmission, Distribution**, Vol. 150, No. 1, pp. 56-60, January **2003**.
ISSN: 1751-8687; ***Impact factor: 2.213*.**
SCI Web of Science (Thomson Reuters), Scopus Indexed,
Annexure –I, Serial No: 4534, (As on 2017 Dec updated list)

12. S.Baskar, P.Subbaraj, S.Tamilselvi, M.V.C.Rao, "Genetic algorithm solution to Optimal Maintenance Scheduling (OMS) of generating units with modified genetic operators",- Presented in 37th International Universities Power Engineering Conference, **UPEC 2002 Proceedings**, **United Kingdom** - Power System Operation and Control, Vol. 2, Session 4c - 7d, **Oral Session - 5b, September 9-11, Staffordshire University, 2002.**

Publication in MATLAB CENTRAL:

A MATLAB code is developed for **Non-Dominated Sorting Genetic Algorithm - II** which can solve any complex real world multi-objective constrained optimization problem. It is published on-line at MATLAB CENTRAL to facilitate the researchers, (**available in the link given below).**
Rating by users (10): 5 out of 5 Stars; 85 weekly downloads on average.

http://in.mathworks.com/matlabcentral/fileexchange/49806-matlab-code-for-constrained-nsga-ii-dr-s-baskar--s-tamilselvi-and-p-r-varshini.

List of Research Works under Review:

1. Sathyanarayanan, Karuppiah, Tamilselvi, "PIC controlled hardware model realization for Mitigating turbine stresses and regulation of frequency in thermal power plants", submitted to "International Transactions on Electrical Energy Systems", **Wiley,** Impact factor:1.619, ISSN:2050-7038.
2. Varshini P R, Baskar S, Tamilselvi S, "Utopia constraint based Replacement in multi objective evolutionary algorithm applied to centralized FOPID Controller", submitted to "Expert Systems with Applications", **Elsevier**, Impact Factor: 3.768, ISSN: 0957-4174.
3. P.Pon Ragothama Priya, S.Baskar, P.R. Varshini, S. Tamil Selvi, "Optimal allocation of Distribution Generation for long term planning by incorporating uncertainties of generators and loads using Evolutionary Multi Objective optimization", submitted to **"Applied Energy", Elsevier**, Impact Factor:7.9, ISSN: 0306-2619

Scopus Database Link:
https://www.scopus.com/authid/detail.uri?authorId=7801643571
Google scholar citation link:
https://scholar.google.co.in/citations?user=wyqwkwoAAAAJ&hl=en
Research Gate citation link:
https://www.researchgate.net/profile/S_Tamilselvi/contributions