



## Chartered Engineers Pacific (CEP)

Formerly Western Canada Group of Chartered Engineers

<http://www.charteredengineerspacific.ca>

### NOTICE OF TECHNICAL EVENING PRESENTATION Wednesday, June 16<sup>th</sup>, 2021, 7:00 – 9:00 pm PST

Please join the meeting from the link below.

## CEP Webinar via Microsoft Teams

[http://bit.ly/CEP\\_Webinar\\_June](http://bit.ly/CEP_Webinar_June)

## Evolutionary Computing for Multi-objective Optimization

Speaker:

**Dr. Anuradha D. Thakare**

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## Abstract

Evolutionary Computing is a computational intelligence technique inspired from natural evolution. An algorithm starts with creating a population that represent possible solutions to the problem. There is no single solution that simultaneously optimizes each objective in a non-trivial multi-objective optimization problem. Natural evolution is used as a model for developing a strategy for finding optimal or near-optimal solutions to a problem. The use of evolutionary optimization techniques can lead to the discovery of multiple optimal solutions in research and Industry applications. Obtaining pareto-optimal set of solutions is at most important. The presentation highlights Evolutionary Computing approach for solving Multi-Objective Optimization problem. It also discusses few applications of this technique in the areas of Mechanical Engineering, Electrical Engineering and other Real-World scenarios.

## Biography

Dr. Anuradha D. Thakare received her Ph.D. in Computer Science and Engineering from SGB Amravati University and M.Eng. degree in Computer Engineering from Savitribai Phule Pune University in India. She is presently working as a Professor in Computer Engineering Department of Pimpri Chinchwad College of Engineering, Pune. She guides doctoral research in Computer Engineering. She has published 80 research papers in reputed Conferences and Journals with indexing in Scopus, Web of Science etc. The publications are in IEEE, Elsevier, and Springer. She filed 4 Indian Patents with her students and received one Australian Patent. She received Research project grant and workshop grants from AICTE-AQIS, QIP-SPPU, BCUD-SPPU Pune, Maharashtra State Commission for Women and National Commission for Women. She was the recipient of Best Women Researcher Award and Best Faculty Award from International Forum on Science, Health & Engineering. She has received best paper award at International Conferences. She has so far delivered 22 expert talks on Machine Learning, Evolutionary Computing, Outcome Based Education etc. She has worked with industries like DRDO, NCL etc. for research projects. She is working as Subject Chairman for various Computer Engineering subjects under Savitribai Phule Pune University, India. She contributed for syllabus Content designing and revision.

She was the General Chair of IEEE International Conference ICCUBEA 2018 and an Advisory Member for International Conferences. She has been a reviewer for Journal of International Blood Research, IEEE transactions, and Scopus Indexed Journals. She is reviewer and Examiner for PhD theses defense for various state/National Universities.

Dr. Anuradha is the Secretary of Institution of Engineering and Technology - Pune LN, Member of IET, IEEE and ACM. She had invited one of the CEP committee members last year for an online event on Women in Engineering organized by IET Pune LN.

**No Registration is Required:**

This event is provided **free of charge** and welcomes all interested **members and guests**.