

**Special Session on “Application of Machine Learning
for Software Engineering”****Session Chairs****Dr.R.P.Singh**

Vice Chancellor of Sri Satya Sai University of Technology and Medical Science,
(SSSUTM) Sehore ,Bhopal.

prof.rpsingh@gmail.com

**Dr Pushendra Sharma**

Deputy Registrar, Vice Chancellor (Sri Satya Sai University of Technology and
Medical Science) ,SSSUTM, Sehore(Bhopal)

dr.pushendra.69@gmail.com

**Neelamadhab Padhy**

Associate. Professor

Gandhi Institute of Engineering and Technology,GIET, Gunupur(Autonomous)

neelamadhabphd@gmail.com

Mobile No :7978557037/9437771064

Odisha

**Dr. Jitendra Sheetlani**

Dean Computer Application

Associate Professor

Sri Satya Sai University of Technology & Medical Sciences, (SSSUTM) Sehore
,Bhopal

Aims & Scope

These techniques are now being used by the practicing engineer to solve a whole range of hitherto intractable problems. This special issue provides an international forum for rapid publication of work describing the practical application of **machine learning** in all branches of **engineering**.

Machine learning deals with the issue of how to build computer programs that improve their performance at some tasks through experience. Machine learning algorithms have proven to be of great practical value in a variety of application domains. Not surprisingly, the field of software engineering turns out to be a fertile ground where many software development and maintenance tasks could be formulated as learning problems and approached in terms of learning algorithms. This book deals with the subject of machine learning applications in software engineering. It provides an overview of machine learning, summarizes the state-of-the-practice in this niche area, gives a classification of the existing work, and offers some application guidelines.

Types of Contributions

Special issues aim to publish four types of articles:

- Survey papers(Tutorials)
- Contributed papers (Detailed expositions of new research or applications.)
- Short papers(Ideas only)
- software reviews(Case Studies)

Topics of this special issue include (but not limited to)

Prospective authors are invited to submit their original unpublished research work.

ML Applications in Software Reuse

Machine learning and statistical methods

ML Applications in Requirement acquisition

Learning algorithms

Software Metrics for fault Prediction

ILP Applications to Software Engineering

ML Applications in Property and Model Discovery

ML Applications in Transformation

ML Applications in Generation and Synthesis

ML Applications in Software Cost Estimation

Applying Rule Induction in Software Prediction

Application of Genetic Algorithms in Software Testing

Reuse beyond code, e.g., reuse of models, specifications, and tests

Reengineering for reuse

Reuse for families of similar systems, software product line techniques

Quality assurance for software reuse, such as testing and verification

Reuse of processes, practices, experience

Transition from improvised to systematic reuse

Agile and light-weight reuse approaches

Software evolution and reuse

Reuse for mobile and ubiquitous applications

Reuse in domains with particular quality requirements

Testability prediction and software release timing,

Reliability prediction,

Size estimation

Quality and maintainability prediction.

Software vulnerability prediction

Categorization of applications

Bug prediction

ML Applications in **Android Apps**

Software diagnosis

Static and dynamic analysis for fault detection

Localization and fixing

Metrics and empirical studies

Submission Format and Review Guidelines:

The submitted papers must be written in English and describe or original research not published nor currently under review by other journals or conferences. Parallel submissions will not be accepted. All submissions should be in the Springer format. Papers should contain up to 5 keywords. Papers will be evaluated for originality, significance, clarity, and soundness.

Moreover, some of the selected high quality papers of the conference with extended versions will be published in reputed journals of International Publishers.

Plagiarism Policy

1. The paper prior to submission should be checked for plagiarism from licensed plagiarism softwares like **Turnitin/iAuthenticate** etc. The similarity content should not exceed **20%** and not more than 4% from any single source (in any case either self contents or others). Further, you have to strictly implement the following ethical guidelines for publication:
2. Any form of self-plagiarism or plagiarism from others' work(s) should not be there in an article.
3. If any model / concept / figure / table / data / conclusive comment by any previously published work are used in your article, you should properly cite a reference to the original work.
4. Also language of explaining it should not be same as language of the work from which you have adopted it.
5. If you are using any copyrighted material, you should acquire prior permission from the copyright holder.

Instruction to Authors:

Please send your paper (only in word format) to neelamadhabphd@gmail.com with 'MLSE-2018' mentioned in the subject line.

- Papers should be in **Springer** AISC format.
- Number of pages should not exceed 8.
- Corresponding Author mail id should be mentioned in paper.
- All the references should be cited properly.
- If you used any human image for simulation purpose, source and acknowledgement is mandatory.

Conference Proceedings

The conference proceedings will be published in Springer (Smart Innovation, System and Technologies) SIST Series. **The books of this series are submitted to ISI Proceedings, EI-Compendex, SCOPUS, Google Scholar and Springerlink ***

IMPORTANT DATES

paper Submission Deadline	- 28th September 2018
Notification of Acceptance	- 10th November 2018
Camera Ready Copy Submission & Author Registration	- 10th November 2018

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