ITPM PRESENTATION

Review on 2 Research Papers

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Agenda

1 Research Paper 1

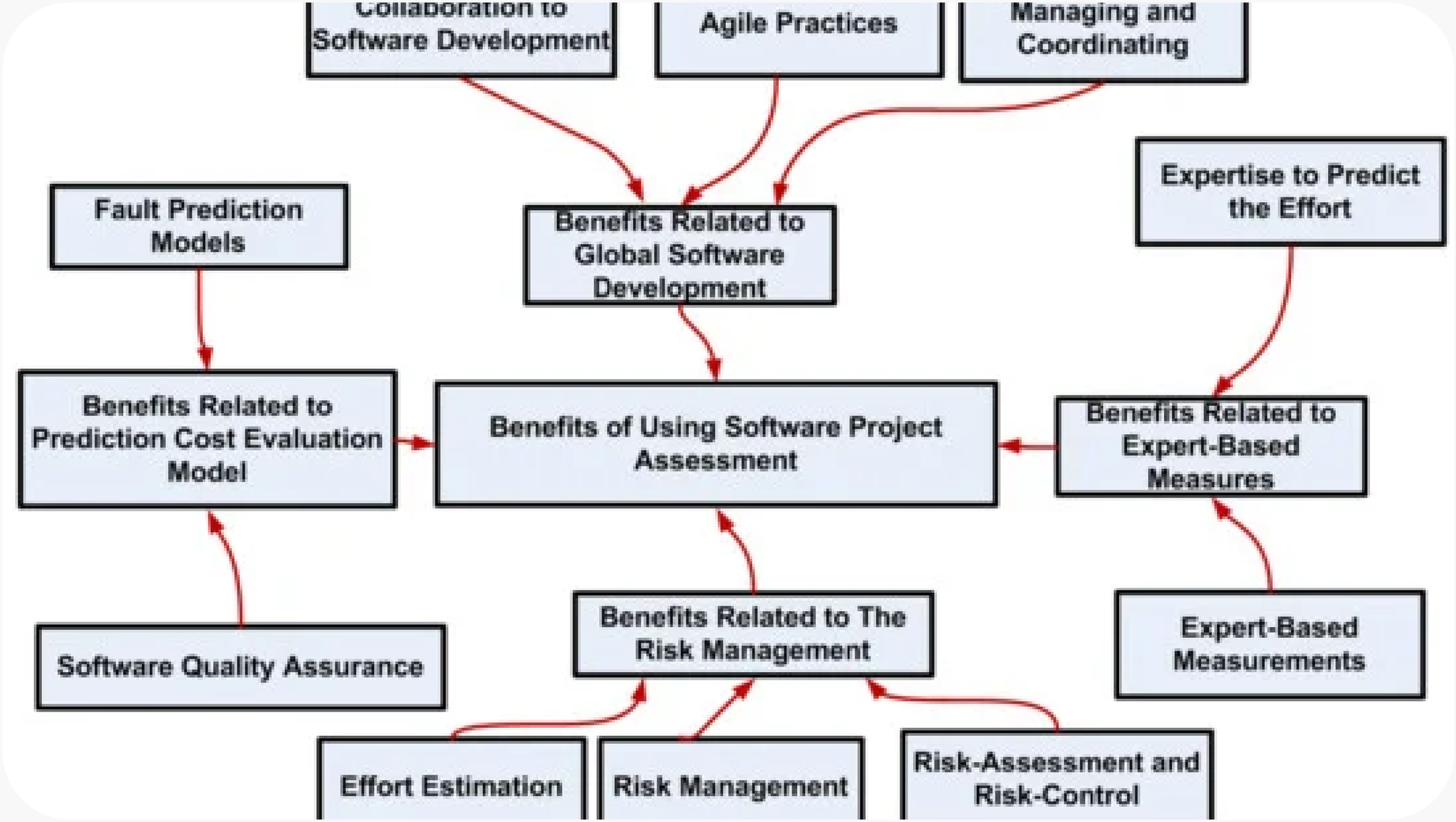
1.1 Summary of Research Paper 1

1.2 Case Study on Research Paper 1

2 Research Paper 2

2.1 Summary of Research Paper 2

2.2 Case Study on Research Paper 2



Research Paper 1

Software Project Management Using Machine Learning Technique—A Review

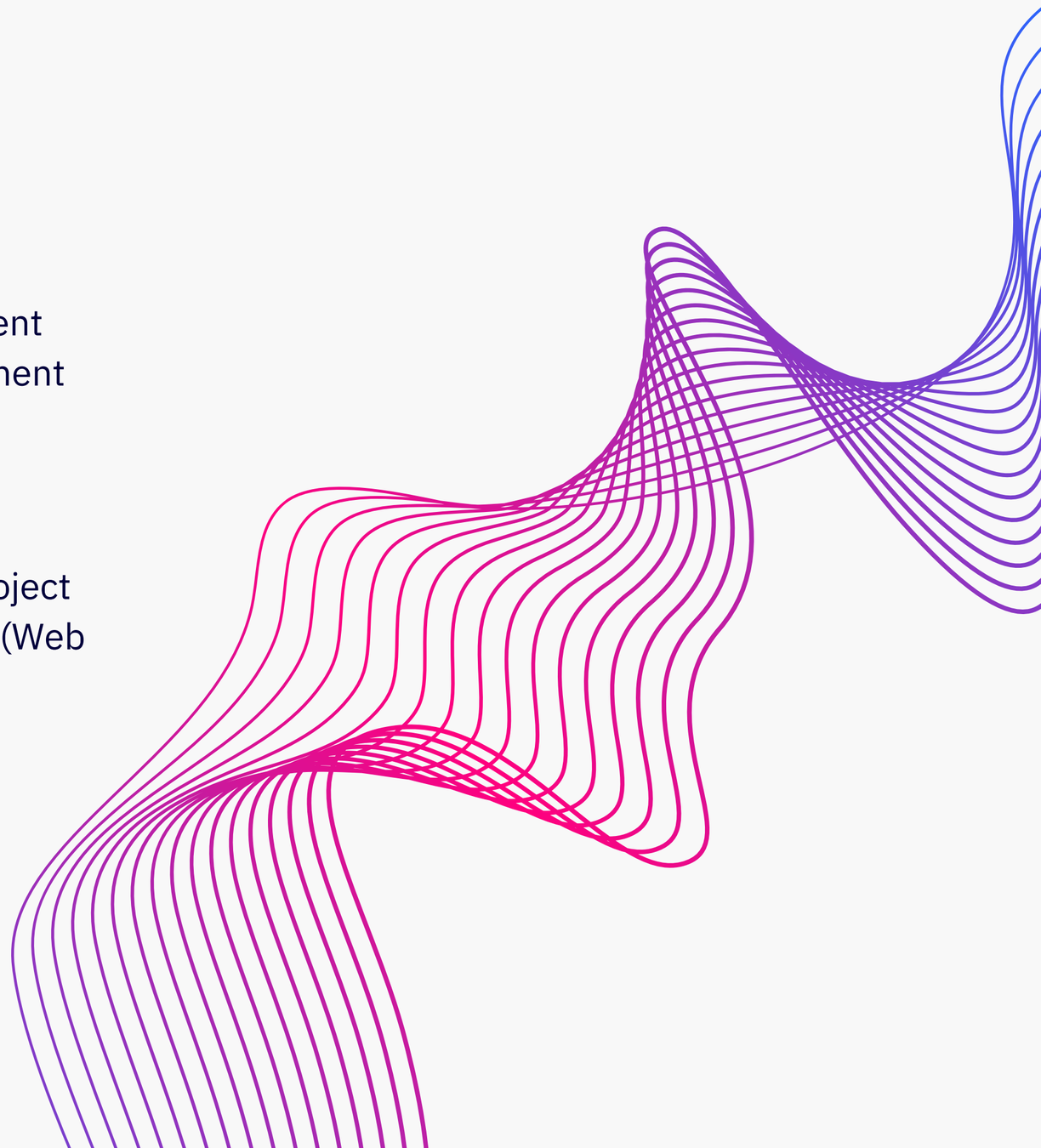
Summary

Introduction

- Importance of project management planning and assessment
- Overview of Machine Learning in software project management

Literature Review

- Analysis of papers on (1) machine learning, (2) software project management, and (3) techniques from three main libraries (Web Science, Science Directs, and IEEE Explore)
- 111 papers divided into four categories



Summary

Categories of Papers

- Category 1: Research and survey papers on software project management
- Category 2: Papers based on machine-learning methods and strategies utilized on projects
- Category 3: Studies on the phases and tests used in machine-learning management
- Category 4: Results from the study, contribution of studies in the production, and promotion of machine-learning project prediction

Conclusion

- Machine learning is more successful in minimizing the loss of the project and increasing the likelihood of success
- Provides an alternative way to reduce project failure probabilities and increase output ratio for growth
- Facilitates analysis on software fault prediction based on accuracy.

Case Study

ML METHODS IN SPM DEVELOPMENT TECHNIQUES

- Seven articles in this category divided into three subcategories

ML PAPERS UTILIZING SPM ALGORITHMS

- Five articles divided into broad groups based on ML approaches of software development methodology
- Improving predictability of estimation and allocation of effort
- Methodology for evaluating stakeholders’ perspectives and building profiles
- Computing and predictive regression techniques contrasted

Case Study

BAYESIAN NETWORKS ALGORITHM

- Solution for value estimation using a combination of qualitative and ML solutions
- Probabilistic model predicting overall value of a given decision
- Intelligent decision support system (DSS) automatically identifies the relationship between risk factors and mitigation

FUZZY ALGORITHM

- Fuzzy mathematics method used in parametric modeling of risk influence diagram
- Describes the relationship of different influence factors in risk management process of IT projects
- Findings contrasted with various assessment parameters.

At a house party...

Research Paper 2

What Is The Scaled Agile Framework®?

Summary

Introduction

- SAFe (Scaled Agile Framework) is a methodology for managing projects and programs in an enterprise environment.
- It provides a framework for organizing and coordinating work across multiple teams.

Key Features

- Agile development methodologies are at the core of SAFe.
- SAFe emphasizes collaboration and communication between different teams and stakeholders.
- SAFe provides a scalable framework that can be tailored to fit the specific needs of different organizations.

Summary

Components of SAFe

- Three levels of SAFe: Team, Program, and Portfolio.
- Each level has specific roles, events, and activities that support the overall project.

Benefits of SAFe

- SAFe helps organizations coordinate and manage work across multiple teams and projects.
- SAFe provides a flexible framework that can be tailored to the specific needs of different organizations.
- SAFe enables organizations to scale their agile practices to meet the needs of large and complex projects.

Conclusion

- SAFe is a popular methodology for managing projects and programs in an enterprise environment.
- SAFe provides a flexible framework for organizing and coordinating work across multiple teams and projects.

Case Study: Improving Project Delivery with SAFe at ABC Corp.

INTRODUCTION

- ABC Corp. is a multinational corporation with multiple development teams working on different projects.
- ABC Corp. was facing challenges in delivering projects on time and within budget.

PROBLEM STATEMENT

- Inefficient coordination and management of work across different teams.
- Lack of clear communication and collaboration between teams.
- Difficulty in tracking project progress and meeting deadlines.

SOLUTION

- ABC Corp. decided to implement the SAFe methodology to improve their project delivery.
- SAFe provided a scalable framework for organizing and coordinating work across multiple teams.

IMPLEMENTATION

- SAFe was implemented at three levels: Team, Program, and Portfolio.
- Teams were trained on the SAFe framework and its components.
- Specific roles, events, and activities were defined at each level to support the overall project.

RESULTS

- Improved coordination and management of work across different teams.
- Increased communication and collaboration between teams.
- Better tracking of project progress and meeting of deadlines.
- Faster delivery of projects with improved quality.

CONCLUSION

- The implementation of SAFe methodology was successful at ABC Corp.
- SAFe provided a flexible framework for organizing and coordinating work across multiple teams and projects.
- The results showed improved project delivery with faster completion and improved quality.

Thank You