



VISUALIZING AND MAPPING THE PROJECT MANAGEMENT
RESEARCH AREAS WITHIN THE INTERNATIONAL JOURNAL OF
PROJECT MANAGEMENT
A BIBLIOMETRIC ANALYSIS FROM 1983 TO 2018

RESEARCH AND EDUCATION IN PROJECT MANAGEMENT

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1. INTRODUCTION

CONTEXT

Project Management has evolved from being an **emerging topic** to a growing research area in business, science and education fields.

The Project Management concept has a **multidimensional approach**, and it can be defined as the practice of initiating, planning, executing, controlling, and closing the work of a team to achieve specific goals and meet specific success criteria at the specified time.

The professionals involved in this area of knowledge are seeking to uncover the **conceptual structure** of a research area of interest are worth and necessary.

OBJECTIVE

The main aim of this contribution is to develop a **bibliometric analysis to evaluate the performance and conceptual evolution** of the **Project Management research themes** from **1983 to 2018**.

The analysis is developed using **SciMAT**.

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2. METHODOLOGY

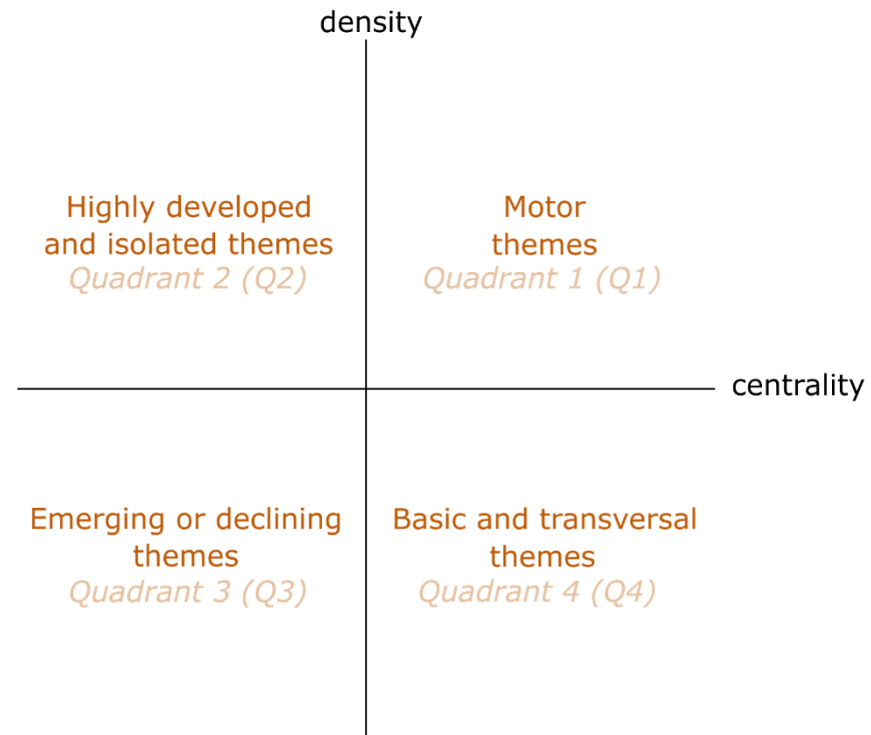
SOFTWARE TOOL

SciMAT was employed to develop a longitudinal conceptual science mapping analysis based on co-words bibliographic networks.

METHODOLOGY STAGES

- 1. Detection of the research themes.** **Co-word analysis**, followed by a **clustering** of keywords to topics/themes. The similarity between the keywords is assessed using the equivalence index.
- 2. Visualizing research themes and thematic network.** **Strategic diagram** and **thematic network** (centrality and density). Research themes mapped in a two-dimensional strategic diagram and classified into four groups (Figure 1): i) motor, ii) basic/transversal, iii) highly developed-isolated, and iv) emerging/declining
- 3. Performance analysis.** Relative contribution of the research themes to the whole research field: number of published documents, number of **citations**, and different types of bibliometric indices (**h-index**).

2. METHODOLOGY



(a) The strategic diagram

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3. DATASET

CORPUS AND DATABASE

Project Management research documents published in the **Scopus**.

QUERY

ISSN (0263-7863) AND (EXCLUDE (PUBYEAR, 2019))

TIME PERIOD

1983-2018

CORPUS SIZE

- 2,408 documents (articles, proceedings, reviews...) and 30,406 keywords.
- Citations count up to 17th January 2019.

DOCUMENTS AND CITATIONS BY YEAR

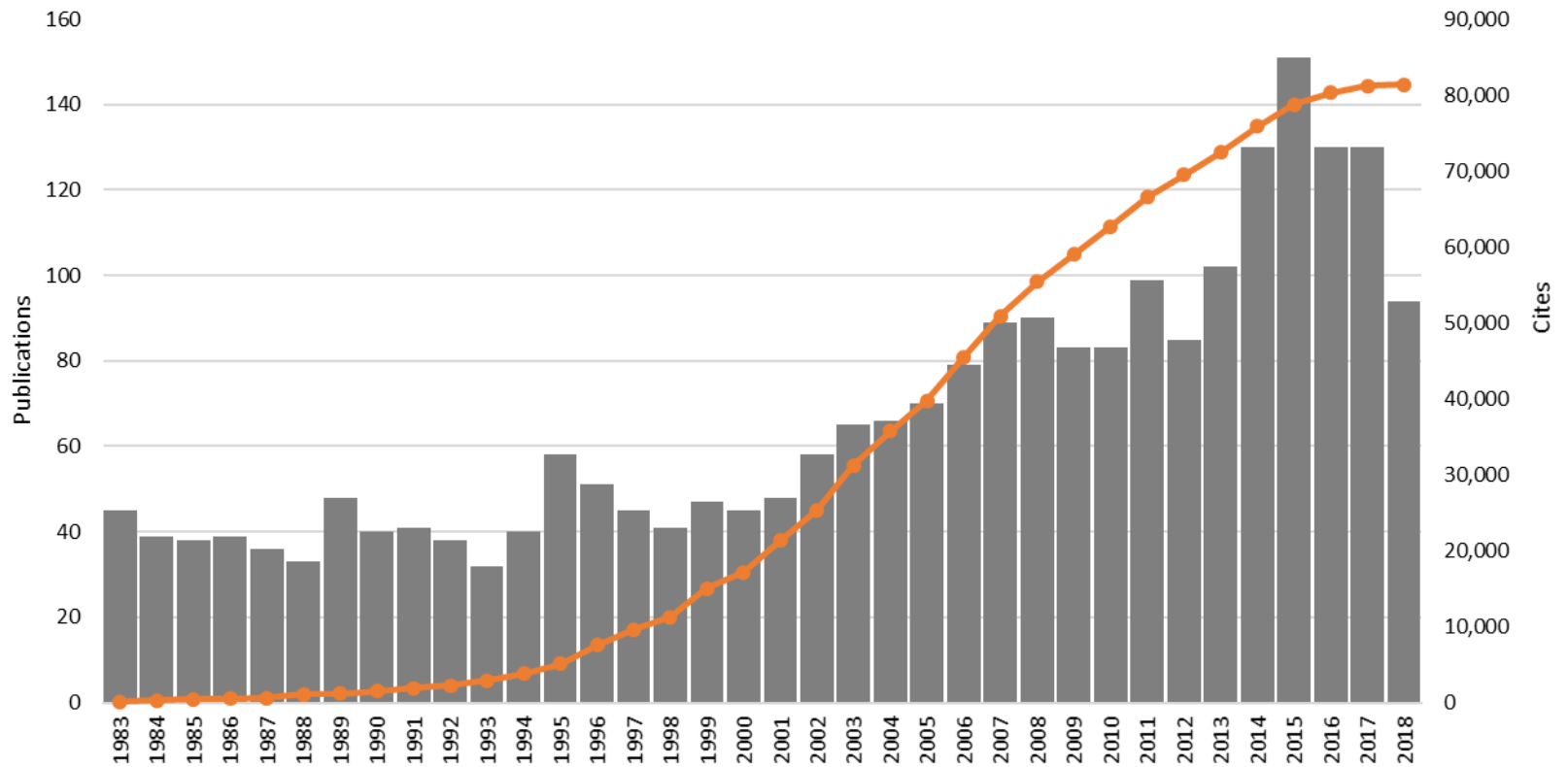


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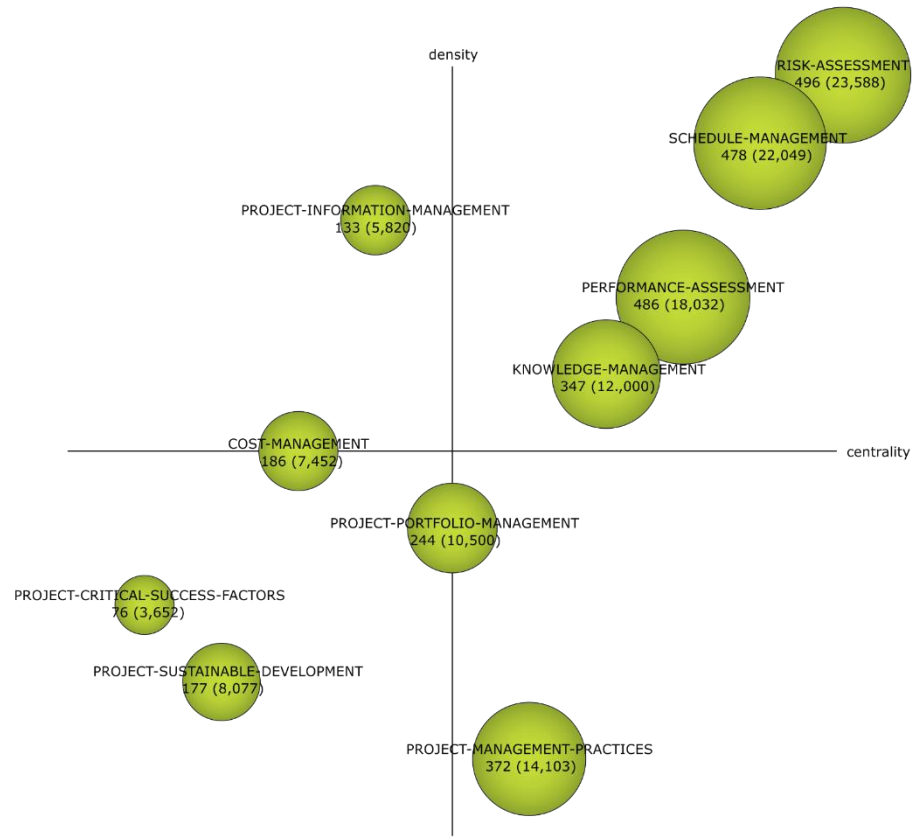
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4. CONCEPTUAL ANALYSIS



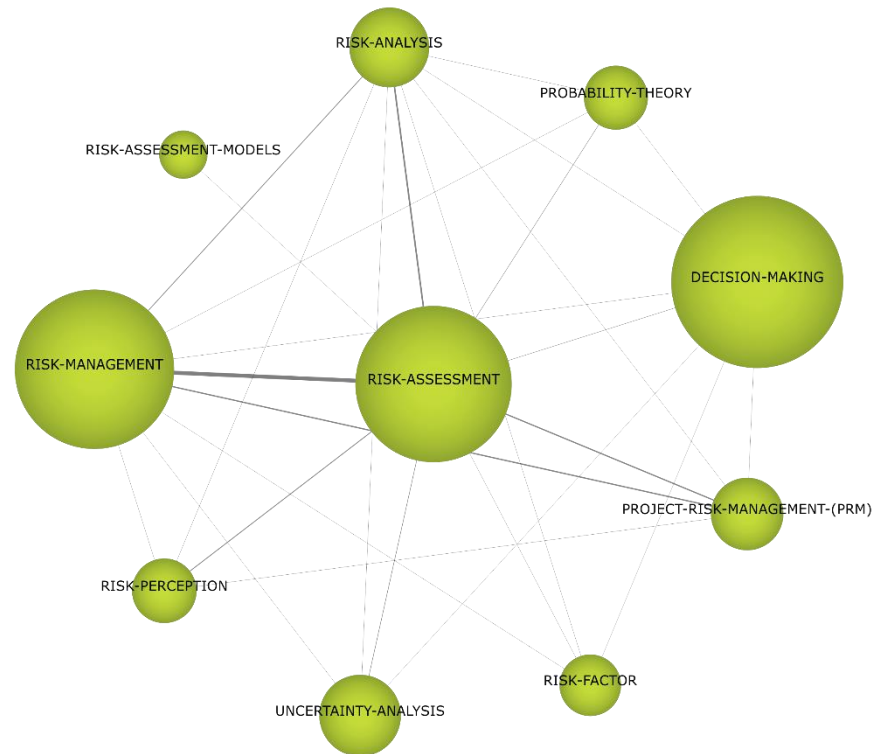
Strategic diagram 1983-2018

4. CONCEPTUAL ANALYSIS

Themes (Research Areas)	Quadrant	Documents	Citations	H-index
RISK-ASSESSMENT	Motor themes (Q1)	496	23,588	79
PERFORMANCE-ASSESSMENT		486	18,032	70
SCHEDULE-MANAGEMENT		478	22,049	79
KNOWLEDGE-MANAGEMENT		347	12,000	58
COST-MANAGEMENT	Highly developed and isolated themes (Q2)	186	7,452	48
PROJECT-INFORMATION-MANAGEMENT		133	5,820	43
PROJECT-SUSTAINABLE-DEVELOPMENT	Emerging or declining themes (Q3)	177	8,077	50
PROJECT-CRITICAL-SUCCESS-FACTORS		76	3,652	35
PROJECT-MANAGEMENT-PRACTICES	Basic and transversal themes (Q4)	372	14,103	63
PROJECT-PORTFOLIO-MANAGEMENT		244	10,500	61

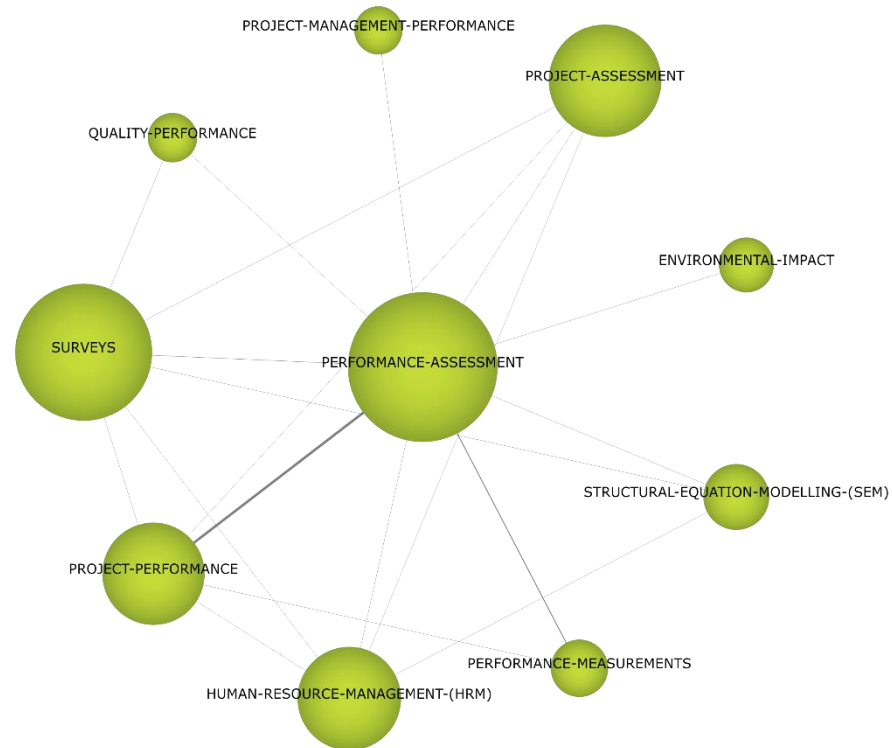
We could identify ten themes related to the **Project Management** research field. In this regard, we could highlight six key themes (motor theme and basic and transversal themes) of the knowledge field: *RISK-ASSESSMENT*, *PERFORMANCE-ASSESSMENT*, *SCHEDULE-MANAGEMENT*, *KNOWLEDGE-MANAGEMENT*, *PROJECT-MANAGEMENT-PRACTICES* and *PROJECT-PORTFOLIO-MANAGEMENT*

4. CONCEPTUAL ANALYSIS



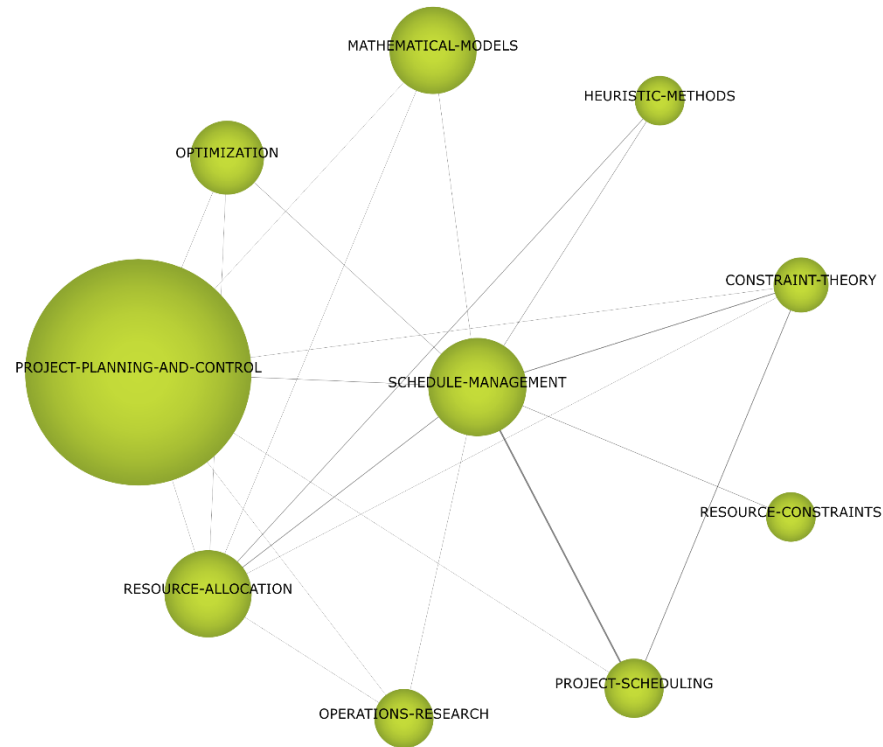
Q1: Risk assesment

4. CONCEPTUAL ANALYSIS



Q1: Performance Assessment

4. CONCEPTUAL ANALYSIS



Q1: Schedule Management

4. CONCEPTUAL ANALYSIS



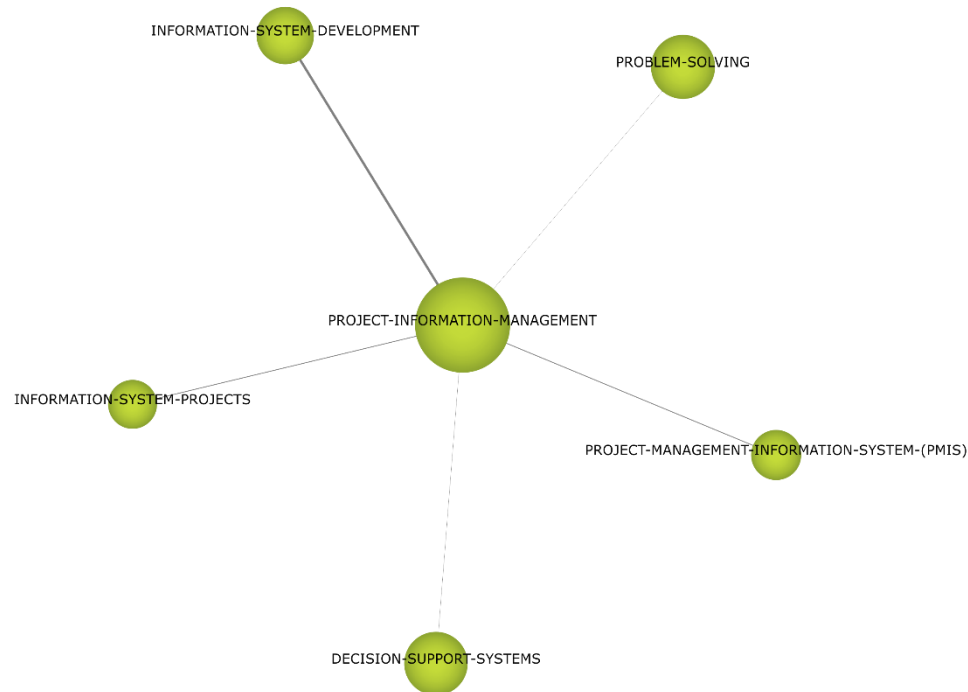
Q1: Knowledge Management

4. CONCEPTUAL ANALYSIS



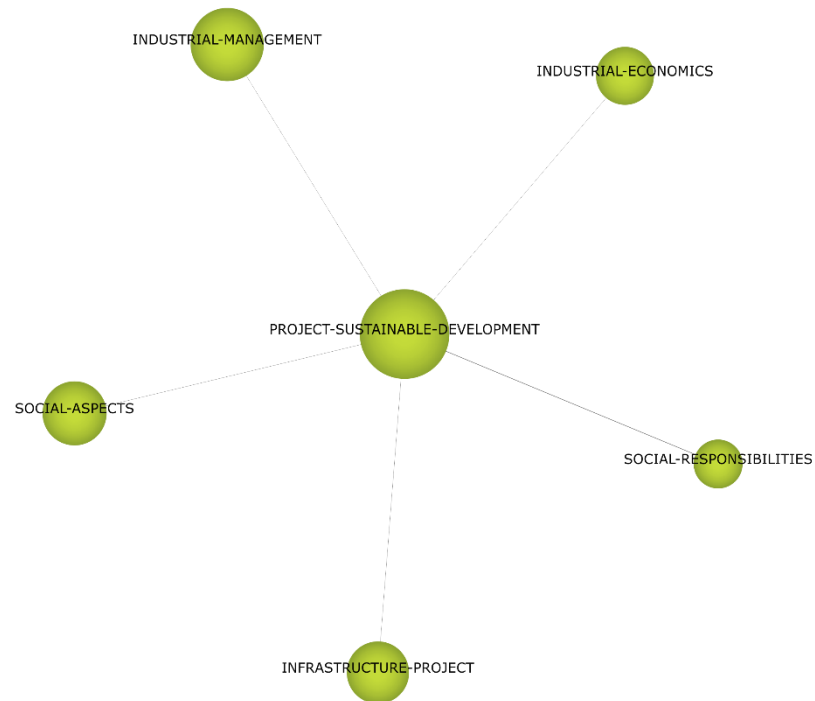
Q2: Cost Management

4. CONCEPTUAL ANALYSIS



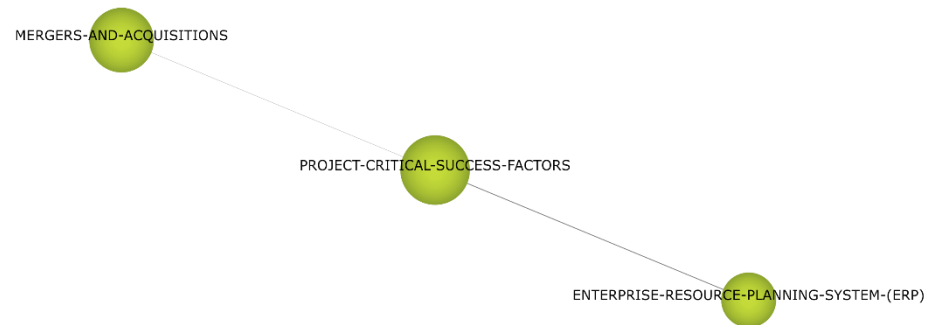
Q2: Project Information Management

4. CONCEPTUAL ANALYSIS



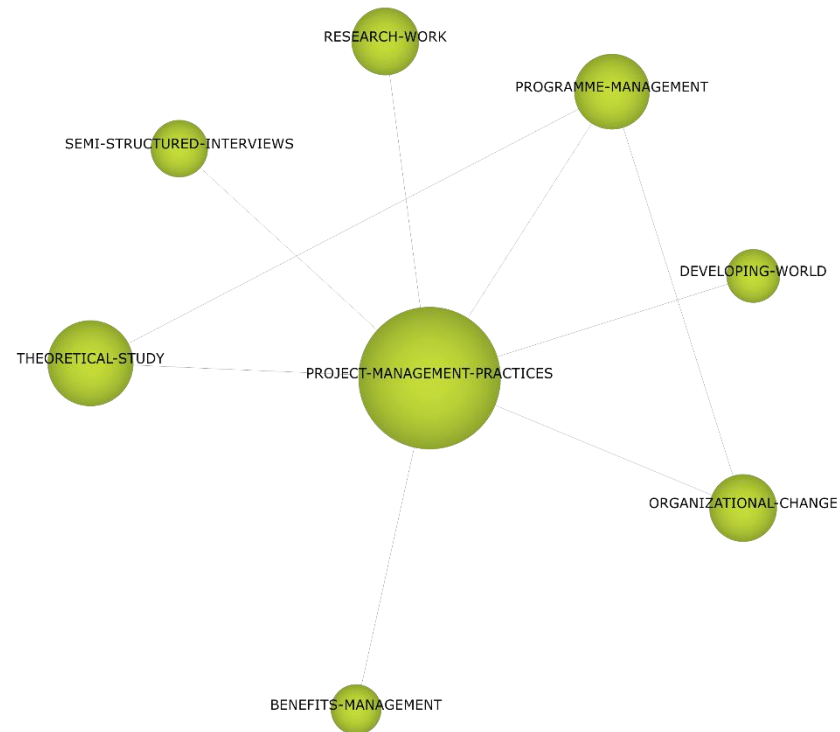
Q3: Project Sustainable Development

4. CONCEPTUAL ANALYSIS



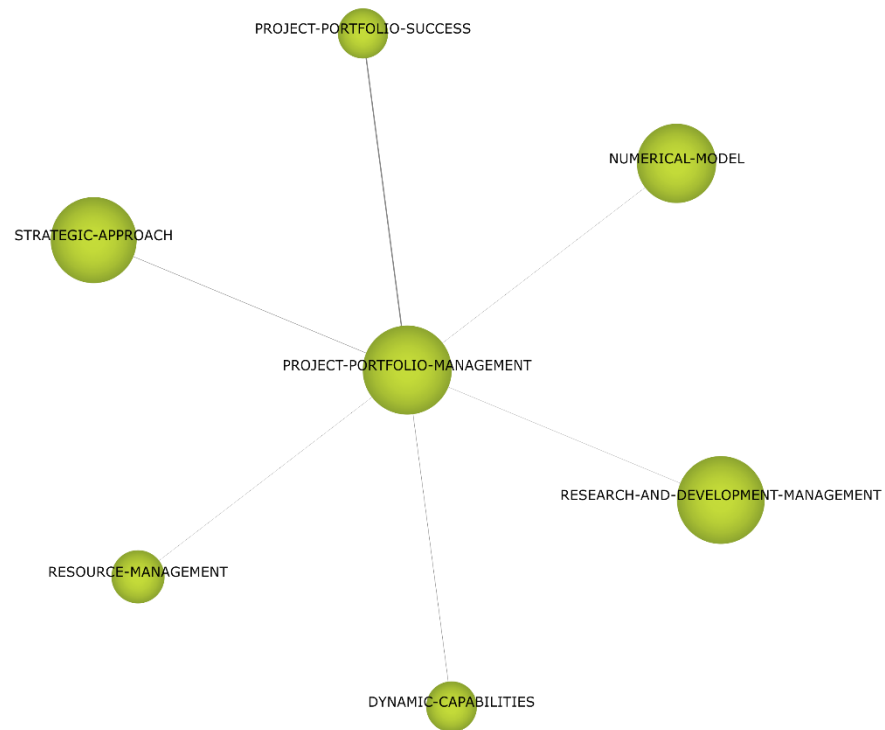
Q3: Project Critical Success Factors

4. CONCEPTUAL ANALYSIS



Q4: Project Management Practices

4. CONCEPTUAL ANALYSIS



Q4: Project Portfolio Management

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CONCLUSIONS

MAIN CONCLUSION

- The size of literature related to **Project Management** within IJPM research field showed a **noticeable increase in the last years (2007-2018)**. Given the large volume of publications and citations received in this field, it is expected that the use of these will be seen as part of other knowledge fields.
- The main themes used in the Project Management literature within IJPM are: **RISK-ASSESSMENT, PERFORMANCE-ASSESSMENT, SCHEDULE-MANAGEMENT, PROJECT-MANAGEMENT-PRACTICES** and **KNOWLEDGE-MANAGEMENT**.

FUTURE WORKS

- Evaluate the evolution of the research themes across the consecutive time periods (year by year).
- Compare the main results with others Project Management Journals
- Study the relationship to other disciplines as: Strategic Intelligence, Information Management and Training.



REPM 2019

THANK YOU

RESEARCH AND EDUCATION IN PROJECT MANAGEMENT

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