

# Digital Capabilities Report

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2023-02-05

## General Observations

This report provides a bunch of information about the dataset of 1101 articles for our review of the digital capabilities literature. We are focusing in the following disciplines: c(“Accounting”, “Information Systems”, “Management”, “Operations”, “Strategy and Innovation”, “Marketing”, “Finance”, “Entrepreneurship and IB”).

Table 1: Articles Inspected by Discipline

Discipline	Marcin	No	Yes	Percentage
Accounting	NA	9	6	40.0%
Entrepreneurship and IB	7	19	6	24.0%
Finance	1	NA	1	NA
Information Systems	3	406	303	42.7%
Management	3	47	16	25.4%
Marketing	16	1	11	91.7%
Operations	24	126	52	29.2%
Strategy and Innovation	1	27	16	37.2%

Table 2: Mapping of Scopus Fields to Disciplines

Discipline	Field
Accounting	ACCOUNTING
Entrepreneurship and IB	ENTREPRENEURSHIP
Entrepreneurship and IB	IB
Finance	FINANCE
Information Systems	INFO MAN
Management	HR
Management	ORGANISATION STUDIES
Management	MANAGEMENT
Marketing	MARKETING
Operations	OPERATIONS RESEARCH AND MANAGEMENT SCIENCE
Operations	OPERATION AND TECH. MANAGEMENT
Strategy and Innovation	INNOVATION
Strategy and Innovation	STRATEGY

For each discipline we examined the following number of journals in the 4 and 4\* range:

Table 3: Articles Inspected by Discipline

Discipline	4	4*
Accounting	1	4
Entrepreneurship and IB	4	1
Finance	1	1
Information Systems	5	3
Management	10	6
Marketing	2	2
Operations	4	2
Strategy and Innovation	2	2

Predictably the number of articles related to IT capabilities, IT-enabled capabilities and digital capabilities has grown over time in every discipline.

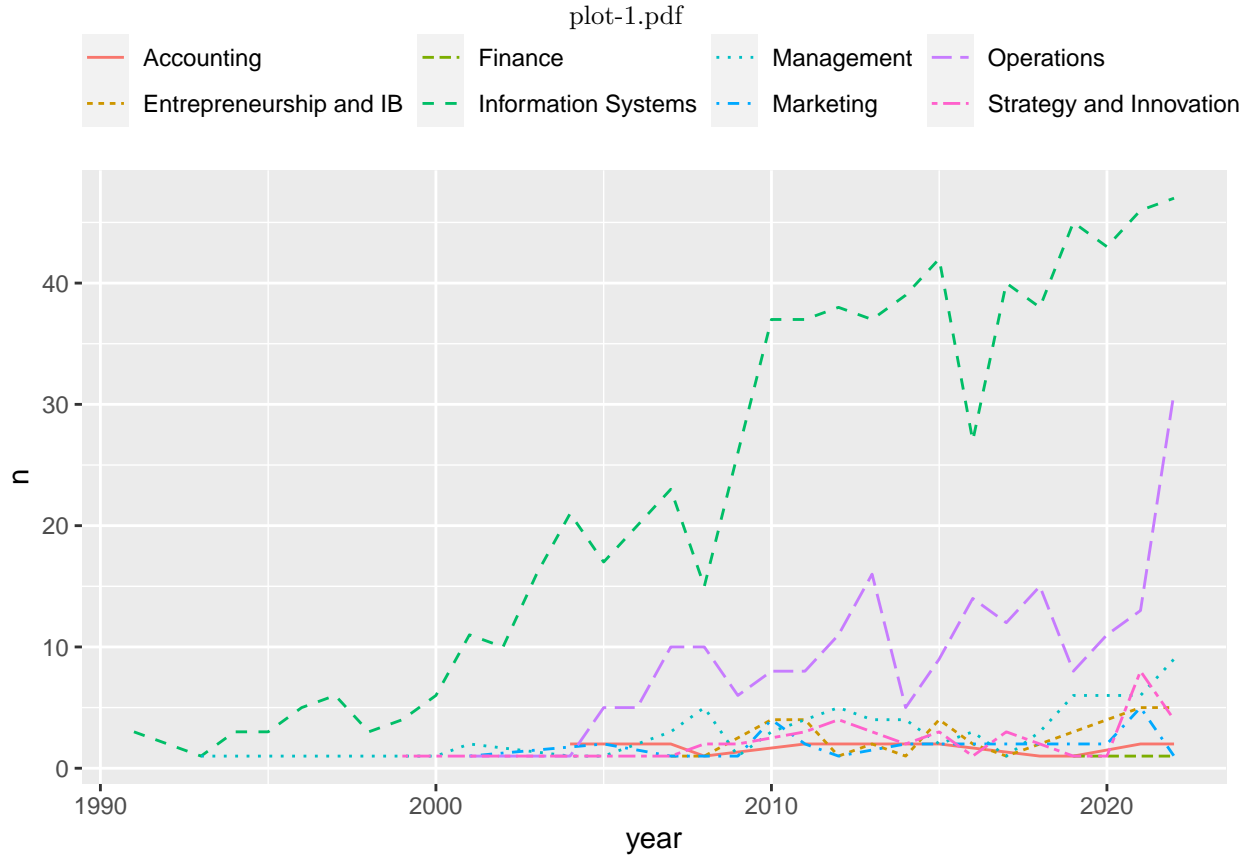


Figure 1: Growth of Articles from 1990 to 2022

## Dataset creation

The original set of 1101 articles, was reduced to 412 articles that were then evaluated based on the content of their title, abstract and keywords. These remaining 412 articles were read in depth and any construct that could be classified as Organizational Capability, IT Capability, IT-enabled Capability or Digital Capability

was extracted, along with its definition. After the categorization stage, 192 articles remained with at least one construct of interest.

Table 4: Articles with Constructs of Interest by Discipline

Discipline	N
Accounting	5
Entrepreneurship and IB	6
Finance	1
Information Systems	125
Management	13
Marketing	8
Operations	22
Strategy and Innovation	12

The above article categorization resulted in a total of 680 analyzed. Of these, 438 had an explicit construct definition, while 242 did not. Moreover, upon evaluation a total of 348 constructs fit the theoretical definition of Organizational Capability, IT Capability, IT-enabled Capability or Digital Capability and were retained.

The table below lists all the constructs extracted, as well as those that were excluded because upon analysis of the definition, did not fit one of the four focal constructs.

Table 5: Frequency of Retained Constructs

Construct	Frequency
Organizational capabilities	27
IT capabilities	261
IT-enabled capabilities	47
Digital capabilities	13
Excluded	43
NA	289

The following is the prevalence of retained construct by discipline.

Table 6: Retained Constructs by Discipline

Discipline	N
Accounting	6
Entrepreneurship and IB	9
Finance	1
Information Systems	261
Management	13
Marketing	11
Operations	27
Strategy and Innovation	20

Predictably the number of articles related to IT capabilities, IT-enabled capabilities and digital capabilities has grown over time in every discipline.

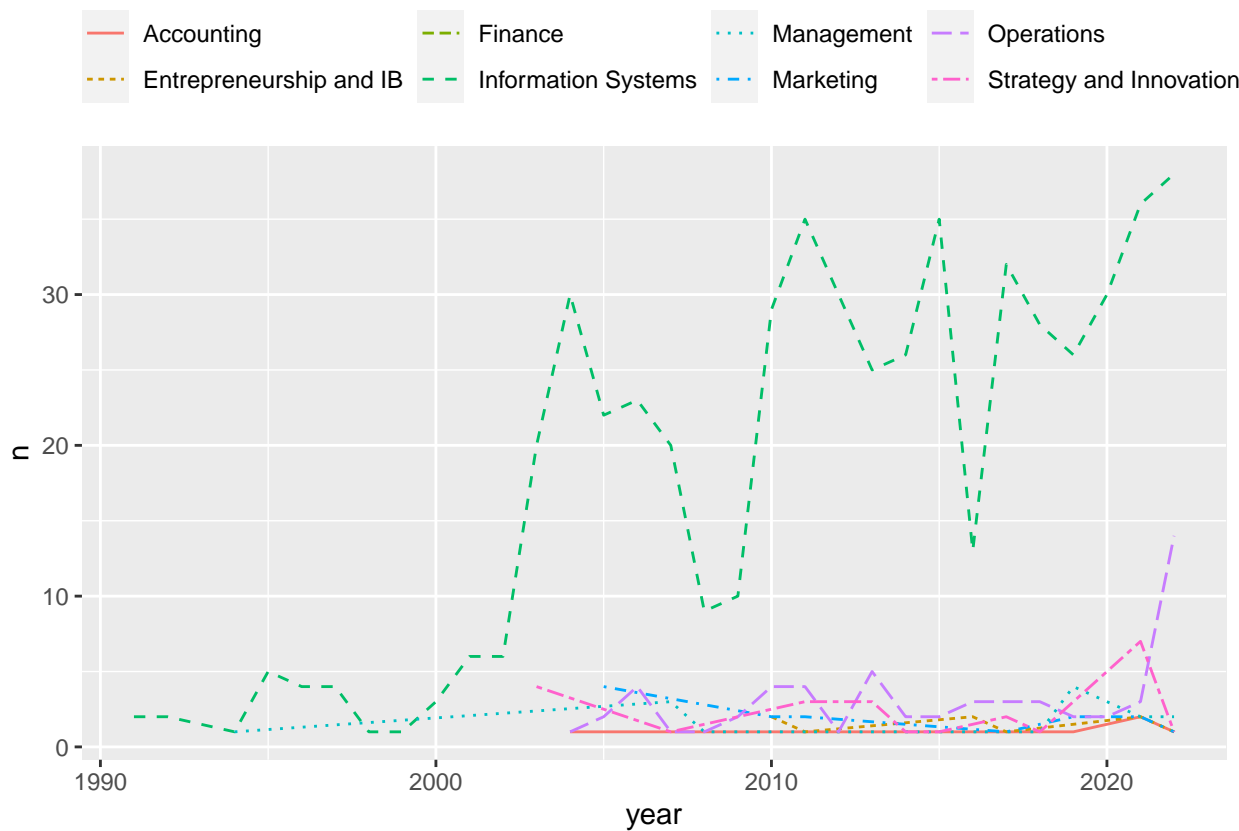


Figure 2: Growth of Constructs Use by Discipline from 1990 to 2022

Attention has been mostly focused on IT Capabilities across disciplines

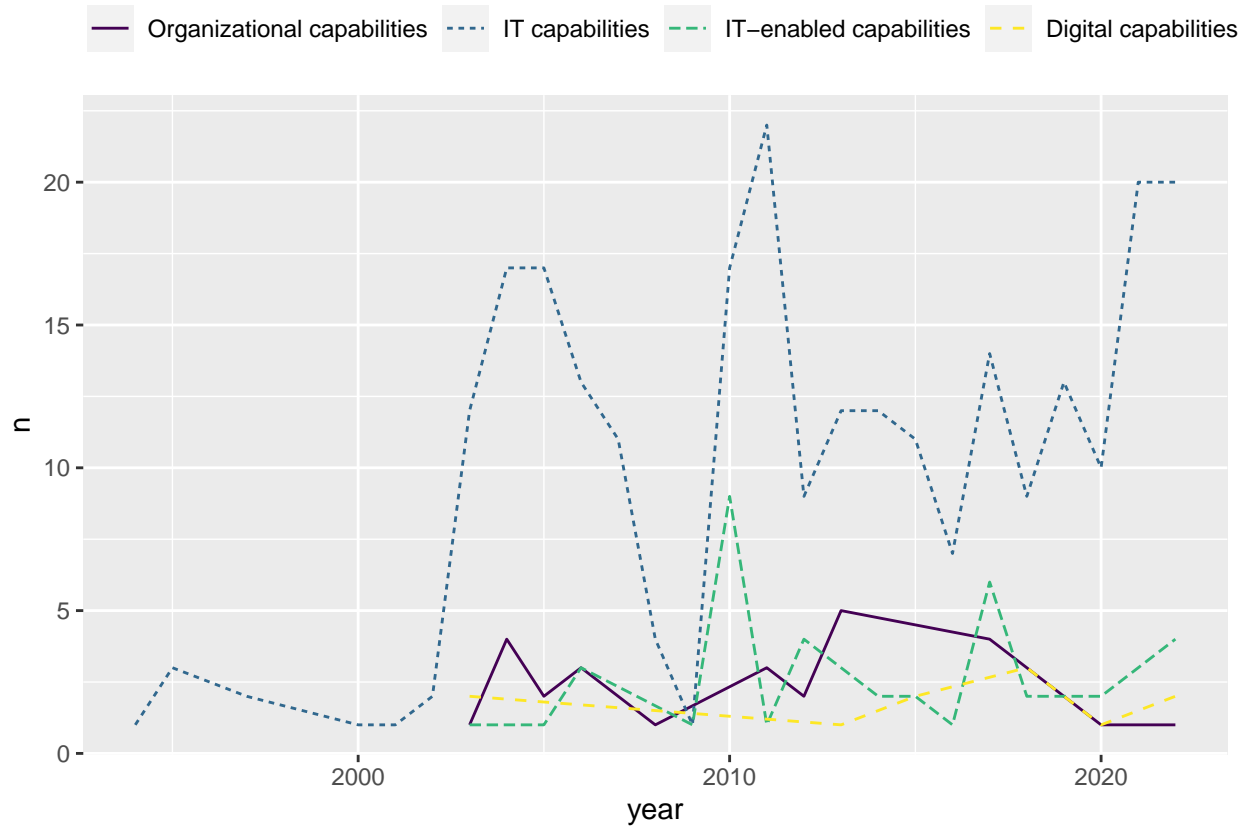


Figure 3: Constructs Use over time across disciplines 1990 to 2022

## Analysis