# Digital Capabilities Report

Gabriele

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 | No | Yes | Percentage |
|---|---|---|---|
| Accounting | 9 | 6 | 40.0% |
| Entrepreneurship and IB | 25 | 7 | 21.9% |
| Finance | 1 | 1 | 50.0% |
| Information Systems | 407 | 305 | 42.8% |
| Management | 50 | 16 | 24.2% |
| Marketing | 11 | 17 | 60.7% |
| Operations | 145 | 57 | 28.2% |
| Strategy and Innovation | 28 | 16 | 36.4% |

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 | 4.0 | 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.

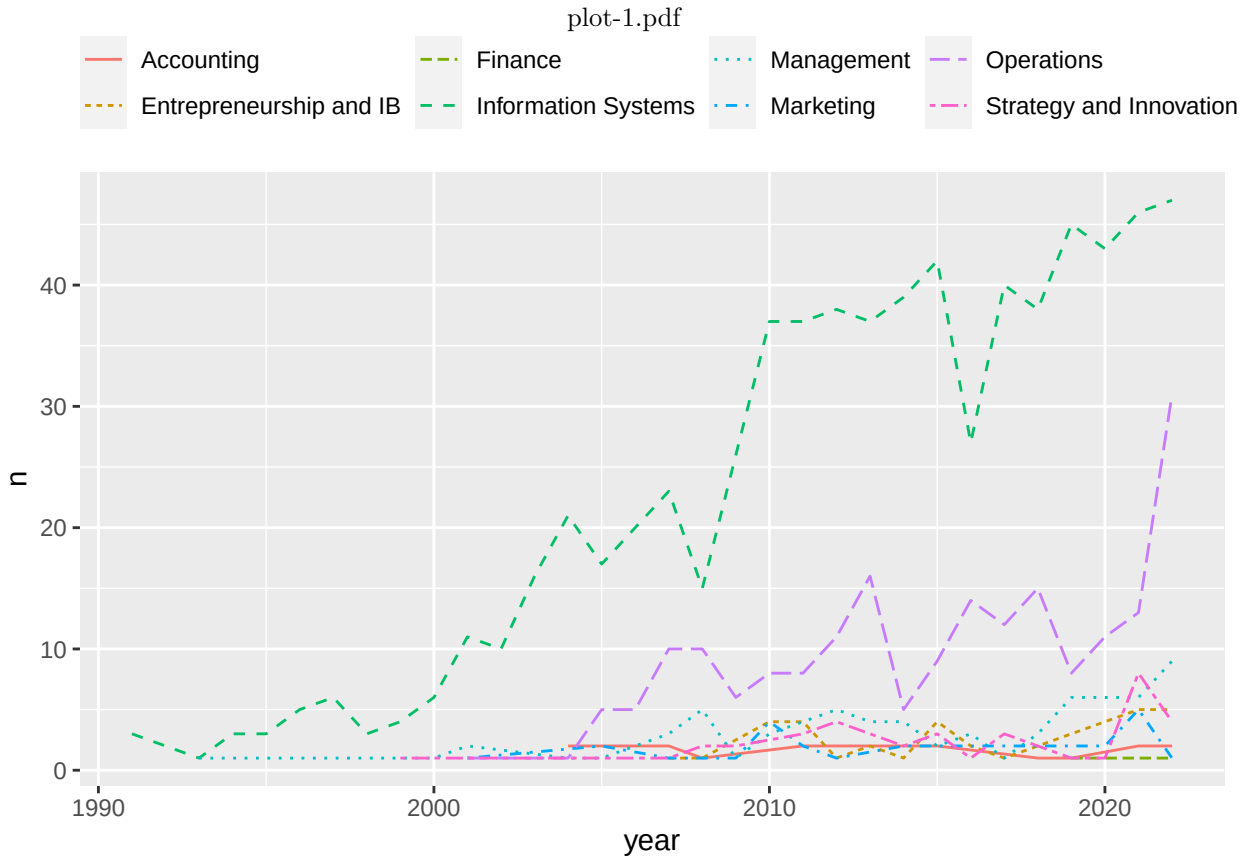


Figure 1: Growth of Articles from 1990 to 2022

## Dataset creation

The original set of 1101 articles, was reduced to 413 articles that were then evaluated based on the content of their title, abstract and keywords. These remaining 413 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, 232 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 | 7 |
| Finance | 1 |
| Information Systems | 169 |
| Management | 11 |
| Marketing | 9 |
| Operations | 21 |
| Strategy and Innovation | 9 |

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 419 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 capability | 44 |
| IT capability | 316 |
| IT-enabled capability | 48 |
| Digital capability | 11 |
| Excluded | 67 |
| NA | 194 |

The following is the prevalence of retained construct by discipline.

Table 6: Retained Constructs by Discipline

| Discipline | N |
|---|---|
| Accounting | 6 |
| Entrepreneurship and IB | 11 |
| Finance | 1 |
| Information Systems | 336 |
| Management | 11 |
| Marketing | 12 |
| Operations | 25 |
| Strategy and Innovation | 17 |

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

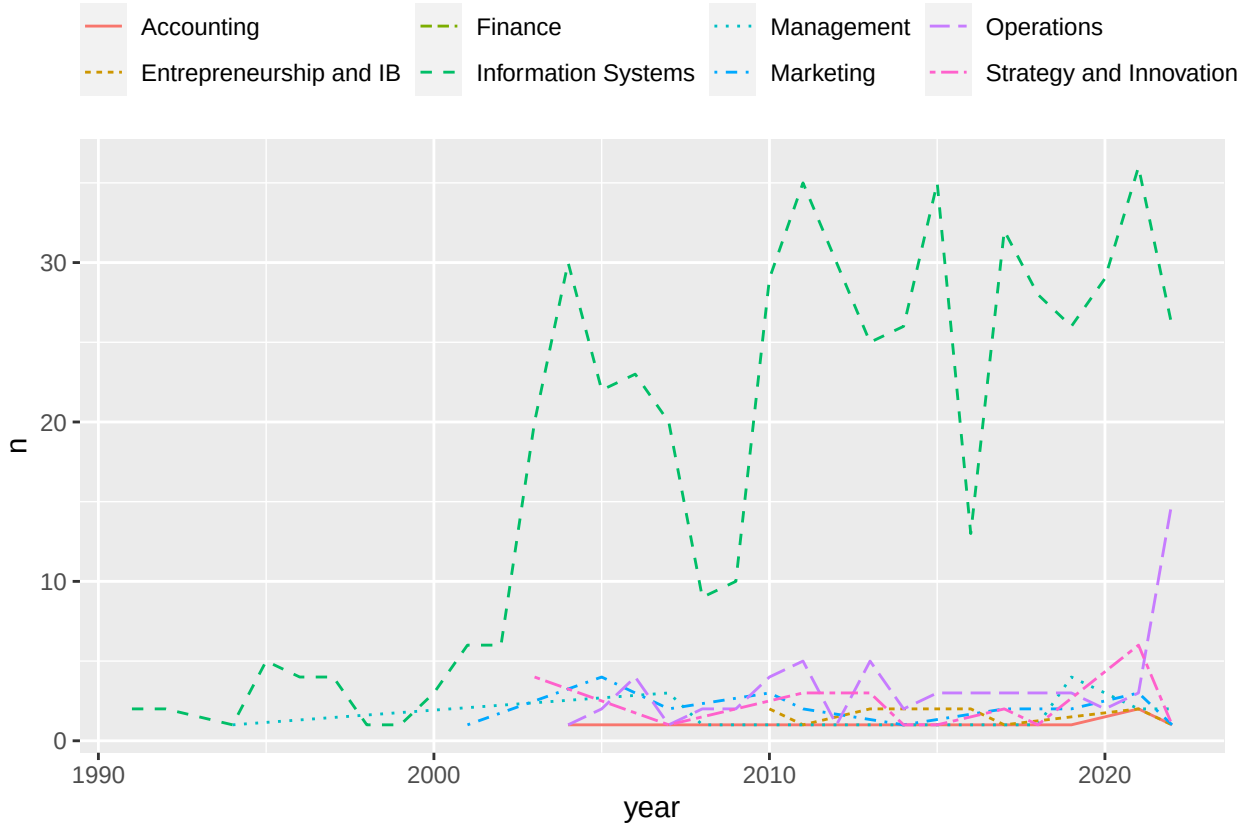


Figure 2: Growth of Constructs Use by Discipline from 1990 to 2022

Attention has been mostly focused on IT Capabilities across disciplines

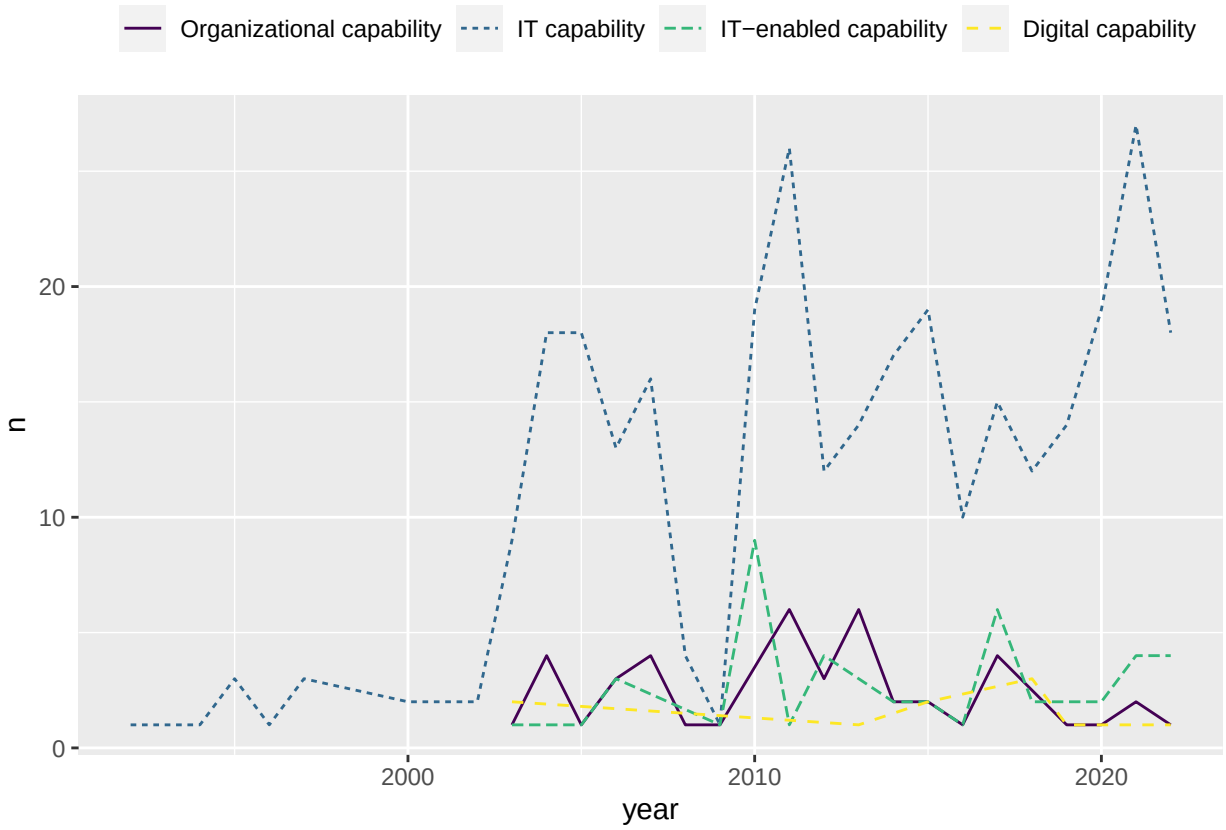


Figure 3: Constructs Use over time across disciplines 1990 to 2022

## Analysis