

# **Entrepreneurship Education Research: What Is Hot and What Is Not?**

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# **ENTREPRENEURSHIP EDUCATION SPECIAL INTEREST GROUP**

A subgroup of European Council for Small Business and Entrepreneurship (ECSB)

## **ACTIVITIES:**

- To generate discussions;
- To provide content and useful links for this SIG to be put onto the website and encourage others to do the same;
- To build relationships with other organizations that are also working in these areas

# SIG QUESTION

Are there particular types of papers related to entrepreneurship education (EE) topics that academic journals tend to prefer?

# What Is Hot & What Is Not?

- Have particular EE topics tended to be more prevalent than others in the last decade publications?
- Are there topics that have not been well represented?
- Are there certain types of EE papers that the academic community should try to encourage more of going forward?
- Have certain topics been more strongly represented than others?
- If so, can any conclusions be drawn from publication patterns about the evolving nature of the field of EE?

# RESEARCH METHOD

- **Sample Frame**
- **130** peer-reviewed articles published from January 2000 through April 2011
- Source: Business Source® Premier database (> 2,100 journals).

# SAMPLING FRAME

- Keywords
  - Step 1 "entrepreneurship education", OR "entrepreneurial education", OR "entrepreneurs education" in title
  - Step 2 "entrepreneurship education", OR "entrepreneurial education", OR "entrepreneurs education" in abstract
  - Step 3 "entrepreneurship teaching", OR "entrepreneurial teaching", OR "entrepreneurs teaching" in abstract
  - Step 4 "entrepreneurship learning", OR "entrepreneurial learning", OR "entrepreneurs learning" in abstract.
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- Articles published in journals with peer-review processes
  - Paper-based publications in English
  - Excluded book and resource reviews
  - Excluded editorial pieces and commentaries when not focused on the topic (Gorman et al.;1997, Béchard & Grégoire, 2005).

# EE RESEARCH: IS IT HOT?

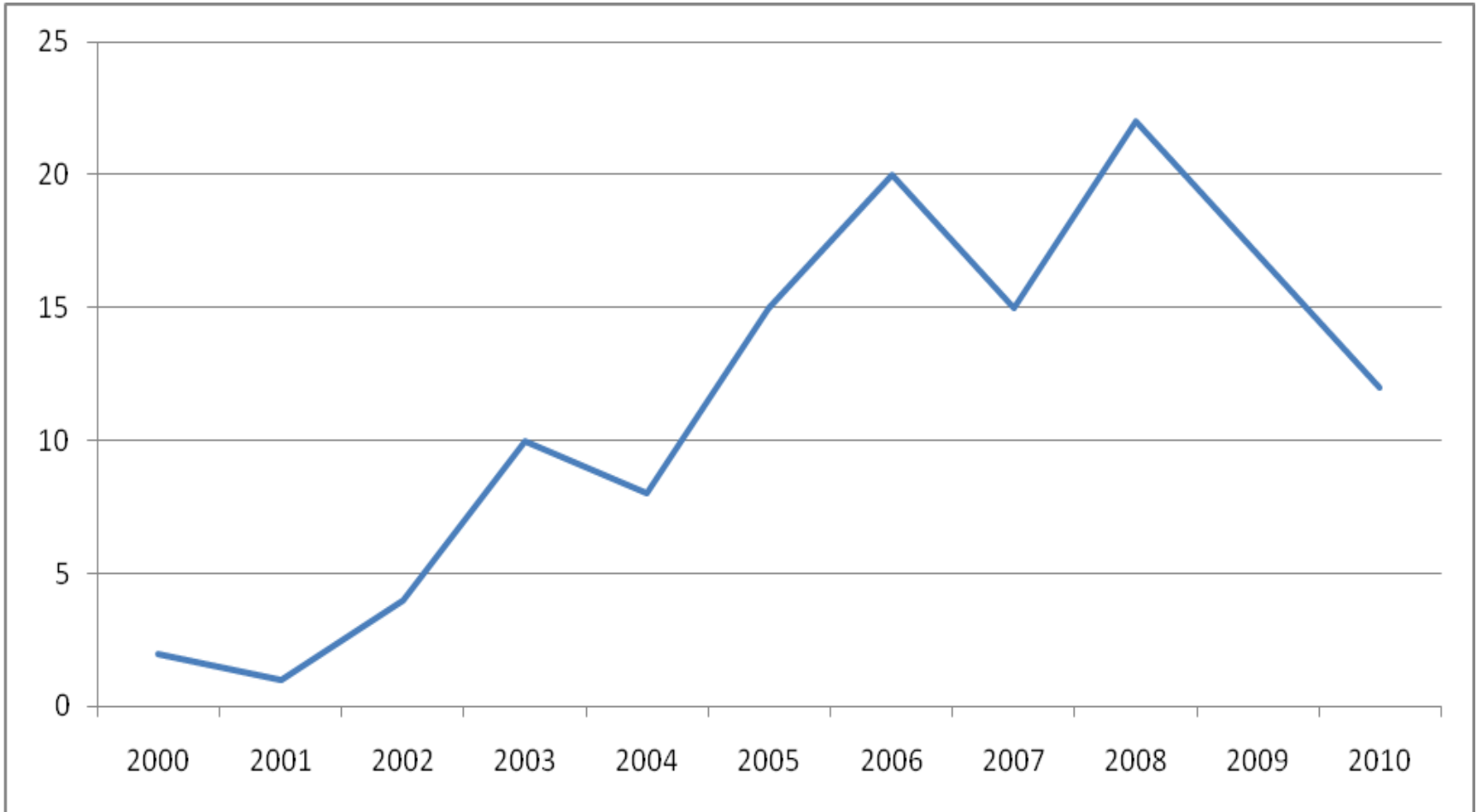


FIGURE 1: Paper published on Entrepreneurship Education 2000-2010

Journal name	Freq	%
Journal of Enterprising Culture	9	6,9%
Academy of Management Learning and Education	8	6,2%
Entrepreneurship:Theory and Practice	8	6,2%
International Journal of Entrepreneurship & Innovation Management	8	5,4%
Journal of Small Business & Entrepreneurship	7	5,8%
International Journal of Entrepreneurship & Innovation	5	6,2%
Journal of Business Venturing	5	3,8%
Journal of Small Business Management	5	3,8%
International Small Business Journal	4	3,1%
Journal of Developmental Entrepreneurship	4	3,1%
Journal of European Industrial Training	4	3,1%
Journal of Management Development	4	3,1%
Journal of Management Education	3	2,3%
Management Learning	3	2,3%
Technovation	3	2,3%
Venture Capital	3	2,3%
Decision	2	1,5%
Entrepreneurship & Regional Development	2	1,5%
Journal of Commercial Biotechnology	2	1,5%
Journal of Economic Behavior & Organization	2	1,5%
Journal of Education for Business	2	1,5%
Management Decision	2	1,5%
Research Policy	2	1,5%
Small Business Economics	2	1,5%
Technology Analysis & Strategic Management	2	1,5%
Academy of Management Perspectives	1	0,8%
American Psychologist	1	0,8%
Development Southern Africa	1	0,8%
Economic Development Journal	1	0,8%
European Economic Review	1	0,8%
European Planning Studies	1	0,8%
Human Systems Management	1	0,8%
International Journal of Contemporary Hospitality Management	1	0,8%
International Journal of Management	1	0,8%
International Journal of Management and Enterprise Development	1	0,8%
International Journal of Management Reviews	1	0,8%
International Journal of Technology Management	1	0,8%
Journal of Accounting, Business and Management	1	0,8%
Journal of Asian Economics	1	0,8%
Journal of Business and Finance Librarianship	1	0,8%
Journal of Business Ethics	1	0,8%
Journal of Development Economics	1	0,8%
Journal of Economic Surveys	1	0,8%
Journal of Entrepreneurship and Innovation	1	0,8%
Journal of Higher Education Policy & Management	1	0,8%
Journal of Management	1	0,8%
Journal of World Business	1	0,8%
Long Range Planning	1	0,8%
NBER Innovation Policy & the Economy	1	0,8%
Planning Practice & Research	1	0,8%
R&D Management	1	0,8%
South African Journal of Business Management	1	0,8%
The Journal of Finance	1	0,8%
The World Bank Economic Review	1	0,8%
	130	100%

# A FIRST COMMENT

- The field has reached a partial legitimacy (Kuratko, 2005:586-587), EE is interdisciplinary (Bécharde and Grégoire, 2005:27) and It is "mature but not stagnant" (Katz, 2008:562) .

# THE CODING PROCESS

- Dimensions:
- **approach** (empirical, theoretical, meta-analysis, description),
- **methods** (qualitative, quantitative, and both),
- **data source** (Africa, Asia, Europe, Latin America, Multiregional, North America, Oceania),
- **Main themes** (entrepreneurial propensity, educational process and structure, EE preparatory role in relation to existing and nascent entrepreneurs, EE research state of art, entrepreneurial learning, and other).

# EE papers Approach and Methods

TABLE 2

Approach adopted in the analyzed articles

	<b>Freq.</b>	<b>%</b>
Empirical	92	70,8%
Theoretical	26	20,0%
Descriptions of EE at a country level	7	5,4%
Meta-analysis	5	3,8%
	130	100,0%

TABLE 3

Analysis methods used for empirical articles

	<b>Freq.</b>	<b>%</b>
Quantitative	46	50%
Qualitative	39	42%
Quantitative & Qualitative	7	8%
Total	92	100%

# COMMENTS

- Empirical papers are the most frequent
  - Coherent with the trend detected by Gorman et al (1997)
- TRENDS 2008-2010
  - Positive for
    - empirical papers
    - quantitative papers
    - multimethod papers
  - Negative for theoretical ones, difficult to detect a trend for qualitative papers

# EE papers Main Themes

TABLE 4  
Main themes

	Freq.	%
Educational process & structure	52	40,0%
Entrepreneurial propensity	32	24,6%
EE preparatory role of existing and nascent entr.	21	16,2%
Entrepreneurial learning	13	10,0%
Other	7	5,4%
EE research state of art	5	3,8%
Total	130	100,0%

# COMMENTS/TRENDS

- Studies on educational process and structure increased over the time span
  - from 25 percent (2000-2001) to 39 percent (2008-2010)
- Papers on entrepreneurial propensity increased
  - from zero (2000-2001) to 31 percent (2008-2010).

# EE papers Data Source

**TABLE 5**

Data Source (empirical papers)		%
North America	33	35,9%
Europe	32	34,8%
Multiregional	10	10,9%
Asia	8	8,7%
Oceania	4	4,3%
Africa	3	3,3%
Latin America	2	2,2%
	92	100%

# COMMENTS/TRENDS

- Surprisingly both North American and European samples are well represented
- On Data Source trends were not detected
- Empirical studies (both quantitative and qualitative) that use African and Latin American samples **are needed.**

# SOME CONCLUSIONS

- EE research is today "mature but not stagnant"
- "Typical" papers on EE are Empirical (quantitative) focused on *educational process & structure*, and on *entrepreneurial propensity*
- Good representation of North American and European samples, need to expand research to the rest of the world especially to Africa and Latin America.

# LIMITATIONS

- Some potentially interesting journals are not included in the Business Source Premier Database, we could investigate them in the future (for instance *The International Journal of Entrepreneurship Education*)

# CLOSING REMARKS

BY

PROFESSOR ALAIN FAYOLLE

# THANK YOU VERY MUCH FOR YOUR ATTENTION!

- JOIN THE ECSB SIG ON EE!!
- Please feel free to share your comments on the presentation and to request the paper with a post on the Linked-in ECSB webpage or by writing to [cristina.bettinelli@unibg.it](mailto:cristina.bettinelli@unibg.it)