

THESIS - Gerônimo W. MACHADO

PPGEP / EPS / CTC – UFSC.

- Production Engineering and Systems_Media and Knowledge.

The Transformation of the Knowledge into Products and Services: The *Gray Literature* and the PPGEP's Thesis.

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*'Philosophers, Scientists, Politicians,
until now, have made every effort to
explore, explain, describe and
interpret the world, but to us, what
interests us, we want to transform
the world' (with Karl Marx).*

4 GENERAL PURPOSE: To Assess Whether the Thesis of PPGEF become Patents, Products and Services.

3 RESEARCH QUESTION: The Thesis of PPGEF become Patents, Products and Services?

2 PROBLEM: A goal of post-graduate researchers is forming. But there are polls that show failures of development and special certificate, masters and doctors without **SCIENTIFIC WORK** without clearance from authors such as researchers and work without social utility. The difficulties may be the training of researchers from the Universities of **DISCIPLINES** offered methods and procedures adequate the search for **THE STUDENTS** in breach of the line of research, of the East. **GUIDELINES** for the **SCIENTIFIC Thesis...**

Chart of Spina Fish of Ishikawa

PhD Thesis - CTC/EPS/Ufsc

Gerônimo W. MACHADO - Fpolis, 2006/03/17

1 TITLE OF THE THESIS: The Transformation of Knowledge into Products and Services_The Gray Literature and the Thesis of PPGEF.

5 SPECIFIC OBJECTIVES: To assess the contribution offered by the company's PhD thesis of PPGEF; Check the information needed to evaluate the Scientific production of the University; Check Project Political-Pedagogical University in the institution's focus to obtain information needed to establish a benchmark of analysis; verify the conditions that describe the phenomena studied and bounding through the arrays of reference, criteria for logical and consistency.

6 IMPLEMENTATION: Exploratory Research on the Collection of Thesis of **BTD**. Intentional sample application with the consistency I Matrix Criteria and Logical II. Search functions and roles of Knowledge, Involvement and processes of its production, circulation, processing in Patents, Products, Services and so on. Of PPGEF-UFSC.

Database Search: Works Digitized in PPGEF by Area of Concentration of 1995-Jul./2007

Area of Concentration	Master	PhD Thesis		Total
		Qualifying	Defenses	
Management Business	434	106	265	805
Media and Knowledge	670	82	168	920
Ergonomics	297	52	119	468
Applied Intelligence	114	36	86	236
Management of Quality and Productivity	614	31	85	730
Environmental Management	147	20	43	210
Transport and Logistics	86	16	40	142
Entrepreneurship	54	23	32	109
Design and Management of the Product	61	11	30	102
Integrated Design Management	22	10	21	53
Operational Research and Systems	19	-	8	27
Evaluation Engineering and Technological Innovation	229	-	-	229
Engineering Production	10	-	-	10
Management of Environmental Quality	40	-	-	40
Organizational Intelligence	4	-	-	4
Production Systems	1	-	-	1

Source: BTD/PPGEF. Access at www.eps.ufsc.br in (2007/03/06).

Implementation: The Matrix Analysis of Consistency of Criteria for Coherence and Logic Methodology.

MATRIX OF THE CONSISTENCY - I

ATTRIBUTES	Question of the Research		General objectives		Justification		Conclusions		CONSISTENT	INCONSISTENT
	YES	NO	YES	NO	YES	NO	YES	NO		
Title of the Thesis	X		X		X		X			
Question of the Research			X		X		X			
Justification	X		X				X			
Limitations of the Research	X		X		X		X			
Conclusions	X		X		X				X	

Source: Barros (2002) and Edition of G. W. MACHADO.

Implementation: The Matrix of Consistency of Criteria of Logic

MATRIX ANALYSIS OF CONSISTENCY OF CRITERIA OF LOGIC

CRITERIA

TESTING SURE LOGIC

THE VALIDITY CONSTRUCTIVE

1. Check were established as the conceptual and operational definitions of key terms and variables in the study so that we know exactly what you want to study - measure or describe.
2. Verify that the test was conducted through the pursuit of multiple sources of evidence for a single variable.

THE INTERNAL VALIDITY

3. Examine whether it was established the causal relationship to explain that certain conditions (causes) lead to other situations (effects).
4. Test the internal coherence between the initial proposals, development and results.

THE EXTERNAL VALIDITY

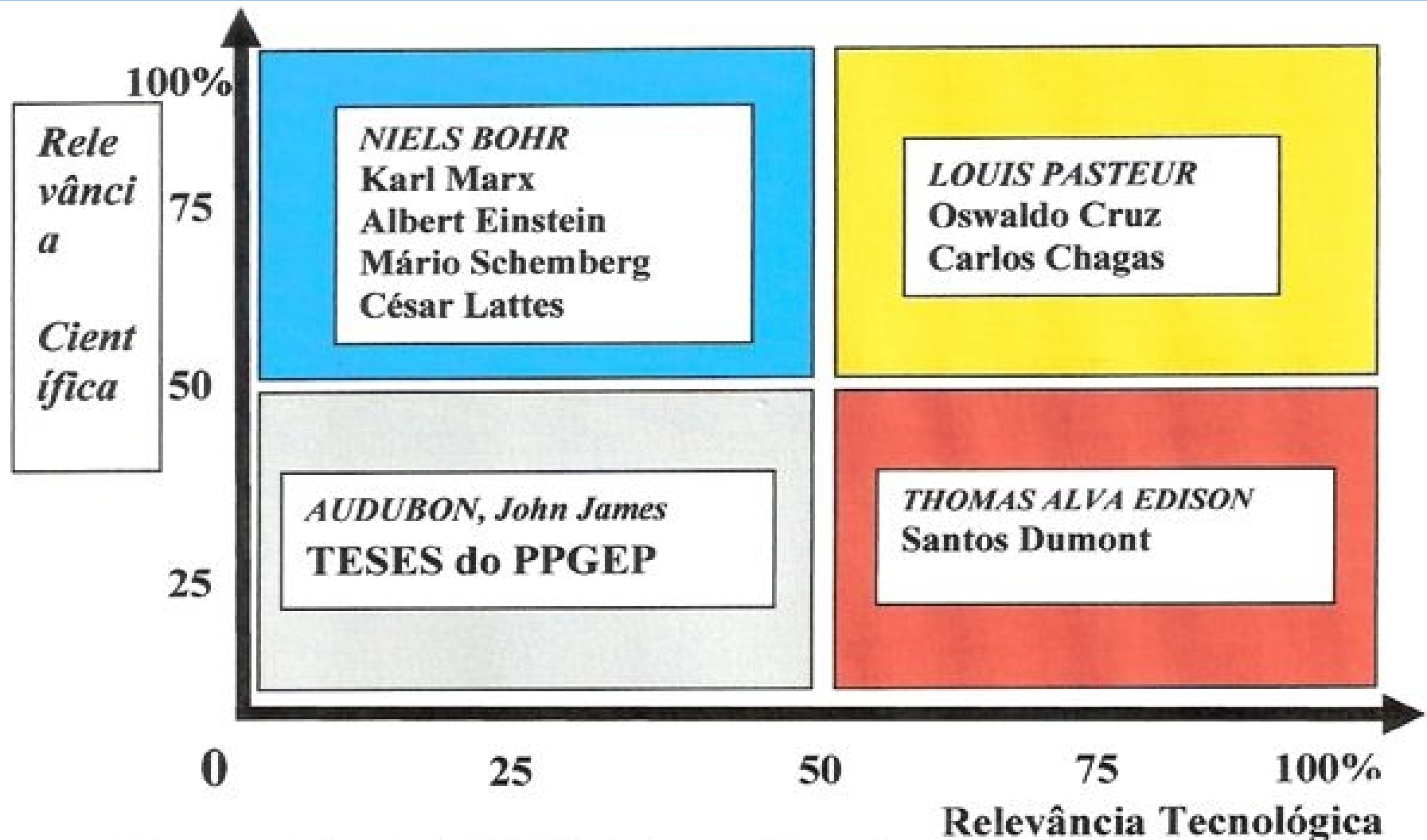
5. Making the field on which the findings can be generalized. You should test the consistency of the findings of the study and the results of other similar investigations.

CONFIABILITY

6. Verify that the study can be repeated resulting in similar results.

4 PROPOSAL OF A MATRIX OF UNIFICATION, GUIDANCE, DEVELOPMENT, EVALUATION AND VERIFICATION OF CONSISTENCY, COHERENCE AND QUALITY OF THESIS ...					
CRITERIA FOR RESEARCH AND EVALUATION OF THESIS	EXISTENCE		COHERENCE AND CONSISTENCY		
	YES	NO	LOW	MEDIUM	HIGH
01. TITLE (Size, Coherence, Consistency)					
02. QUESTION OF BASIC RESEARCH					
03. Multiple Questions					
04. GENERAL PURPOSE					
05. Specific Objectives					
06. BACKGROUND (Relevance and Importance)					
07. Demarcation of Area and Scope					
08. LIMITATIONS (scientific, politics, for costs)					
09. GLOBAL DESIGN PROJECT					
- A) Contribution					
- B) Reliability					
- C) Comparability of Examination					
- D) Feasibility of Implementation (Operation)					
- E) Unpublished and Originality					
10. DEFINITION OF THE PROBLEM					
11. Examination of the Problem (Large or Partial)					
12. Relations of Cause and Effect Coherence					
13. Relations of Cause and Effect Consistency					
14. THE THEORY (Bibliography)					
- A) Comprehensive					
- B) Consistency					
15. How METHODOLOGY					
- A) Comparable					
- B) Reliable					
- C) Valid					
- D) Contribution					
- E) Re-usable					
- F) or Wide Limited (Domain and Range)					
- G) Unpublished and Originality					
16. EDITORIAL QUALITY (and Logic)					
17. VISION CRITICAL (Science and Politics)					
18. ANALYSIS (logical and coherence)					
19. SUMMARY (coherence and consistency)					
20. RESULTS OF RESEARCH					
- A) or Wide Limited (Domain and Range)					
- B) Trusted					
- C) Comparable					
- D) Valid					
- E) Unpublished and Originality					
- F) Contribution Innovative					
- G) Why (Wide Limited)					
21. FINDINGS OF RESEARCH / THESIS					
ASSESSMENT (Final Average)					
Source: From Research and Thesis of G. W. MACHADO. TABLE 34 - Proposal for Matrix Consistency, Consistency and Quality, for the Evaluation of Thesis of Post-Graduate (Proposal for Geronimo W. MACHADO).					

Scale of Pasteur for the Thesis of the PPGEF-UFSC and so on.



Fonte: Elaboração e Adaptação de G. W. Machado, a partir de sua Pesquisa, inspirado na Tese de Micheline Gaia Hoffmann, 2006, pp. 24-25, baseado no livro de STOKES, Donald E. *O Quadrante de Pasteur - A Ciência Básica e a Inovação Tecnológica*, 2005, pp. 15-140 e mobilizado pelo Prof. Nelci Barros.

FIGURA 7 - A Escala de Relevância do Conhecimento e da Pesquisa Científica inspirada na construção da Escala de Pasteur, de Donald STOKES...

Results and Conclusions of the Research and Thesis

- 01. Contributions of the thesis of Silvana PEZZI for a matrix of Thesis Evaluation of Programs of IES Brazilian GP and Imara STALLBAUM on Scientific Journalism ...**
- 02. Analysis of Results of Implementation of Matrix Test and Logical consistency on the thesis of PPGEF and the qualities found ...**
- 03. Proposal for Unification Matrix, Guidance, development, evaluation and verification of consistency, coherence and quality of Thesis and Dissertations of Brazilian Universities ...**
- 04. The scale of Pasteur for Thesis of PPGEF ...**
- 05. The Science, Technology and Innovation in the IFES ...**
- 06. The Gray Literature:**
 - a) The Thesis of PPGEF: Patents, Intellectual Property, Products and Services ...**
 - b) The Transformation of Knowledge on Patents, Products and Services ...**
- 07. Other proposals and suggestions of this Thesis:**
 - a) The dynamic process of the Didactic-Pedagogical Relations between the guiding and the STUDENTS...**
 - b) The Process of Educational Services of the General Rules of Post-Graduate Programs like PPGEF ...**
 - c) The procedures for consistency and Scientific Methodology for the PPGEF Thesis and the Brazilian Universities ...**
 - e) practices and roles of Guiding Educational and Scientific ...**

REFERENCES

- 1 Bibliography Cited in the thesis.**
- 2 consulted and Recommended Bibliography.**

Recommendations from this Thesis

Recast Transdisciplinary Educational and Higher Education, Research and Extension (Changing the Process):

- Transdisciplinary Educational Training for all faculty and functional;**
- Evaluation by the teacher with Rewards Work Teacher and Functional Transdisciplinary...;**
- Disclosure and transparency (via Internet);**
- Students and Teachers as agents in New pedagogy inspired by HR MATURANA and VARELA FJ, Nestor G. CANCLINI, Francesco TONUCCI, etc.;**
- Transdisciplinary exchange between the Sciences and the other Universities;**
- More Resources (University of Budget and Partnerships) for projects of extension and Interdisciplinary;**
- Completion of work on cross-University Courses;**

SUMMARY OF THE THESIS - 1

This thesis is cares about human knowledge. It discusses the understanding and use of knowledge that is done. It shows the contribution of intellectuals who have dealt with the knowledge, from a philosophical, Scientific and methodological. This theory emphasizes specifics theoretical, methodological, political, economic, environmental, social and so on, about the use of knowledge. Some details about the creation and transfer of explicit knowledge and formalized and how it is used in the Universities. Many things related to the use of knowledge are emphasized in this thesis.

The main source of research of this thesis is that the Gray Literature is the basis of scientific and technical information society. That is, everything that is produced in Universities. This theory is based on the PhD thesis of the Postgraduate Program in Production Engineering and Systems (PPGEP) of UFSC (Federal University of Santa Catarina). It looks, and just be only the arguments that were presented from 1995 to July/2007.

SUMMARY OF THE THESIS - 2

And it only scanned the Thesis and the achievements of BTDPGEP. Thus, this argument is based on knowledge and focuses on the results presented by the thesis of this program and it is part of the acquis in the area of Knowledge and Media.

The thesis were examined from a formal and on its specific content, in order to verify the extent to which they have become or can become in patents, products and services. Or are they just part of the gray literature that only served the purpose of their guardians. One of the main results of this thesis was that none have been found them, in PPGEP, which has been converted, directly on patents or products and services.

The research also made unable to confirm, but allowed to assume that many of them, 'non-argument, extra-PPGEP and extra-academic', served to complement the Scientific and academic training of their authors and guardians. But it was not possible to prove which of them, even, indirectly, led and served as the basis for organizing initiatives, private provision of public use, for-public or private... What appears to be the case of Group / Stela Institute.

Or if some were and are still being used by its results, as systems of organization and control of education services and other public or quasi-public Universities in Brazil, as seems the case of the CV-Lattes, CAPES / CNPq, the LED-UFSC and some portals known nationally and so on.

All this suggests that, without artifice, much tolerance and runs extra-legal or para-legal, the Brazilian Public Universities and their programs for the Postgraduate Diploma, as the PPGEF, would be hard to function. Do not doubt the existence of products and services in the Brazilian Public Universities that originated in PPGEF and its thesis and that the results of thesis that are widely used in public services, para-public and diffuse throughout all the Brazil.

One can therefore conclude that without some connivance and complicity of the Teachers Brazilian Public Universities would be hard to work and contribute to our country...