

# SCIENTIFIC RESEARCH METHODOLOGIES AND TECHNIQUES

## Unit 4: PUBLICATION OF RESULTS

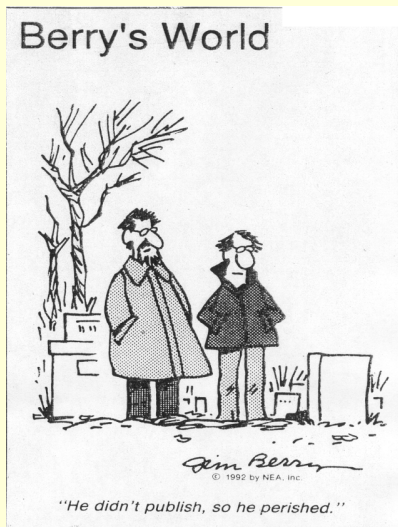
Luis M. Camarinha-Matos  
cam@uninova.pt

PHD PROGRAM IN ELECTRICAL AND COMPUTER ENGINEERING

1



2



Before the PhD defense  
you should have published  
some papers in good  
(refereed) conferences  
and at least 1 or 2 in good  
journals!

© L. M. Camarinha-Matos, 2009-2012

The “**Publish or Perish**” idea reflects a prevalent culture in the academic world ... and the origin for many jokes

... But a PhD candidate **MUST** publish !

- **Sharing** results with the scientific community is an integral part of the research activity.
- Publishing is also a mechanism to get **feedback** – during reviewing and even after publication - and thus help you improve your research.
- For a PhD candidate it is also a **reassurance** mechanism about the validity of the work.

3

## 1. PUBLICATION CHANNELS

© L. M. Camarinha-Matos, 2009-2012

4



## Various channels

- Proceedings of Conferences & Workshops
- Books / Book chapters
- Journals



## Publication in conference proceedings

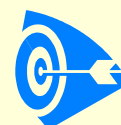
### Conference quality

- Selection / refereeing process
  - Based on abstract only – **not acceptable**
  - Based on full paper – necessary, in order to be recognized !
- Sponsors
  - Sponsored by a prestigious society? IEEE, IFIP, IFAC, ACM, CIRP, ...
  - If not, check it carefully !

### Type of proceedings

- CD-ROM or on-line
  - ... Cheap, shorter publication time, less prestigious (still)
- Paper proceedings, published by organizers
  - ... Limited impact / limited availability
- Book, by main publisher or society (e.g. Springer, IEEE)
  - ... More prestigious, wider availability, included in index databases

■ Indexed in  
Web of Science?



### Benefits

- Shorter publication cycle < 1 year
- Live exchange of ideas with other researchers
- Some “scientific tourism”

### Disadvantages

- Less prestigious, even totally ignored in some forums
- Costs money (conference fee, traveling)



## Conference purpose

### Scientific conferences

- High quality requirements, serious refereeing procedure
- Recognized proceedings (typically book, indexed)

### “Networking” conferences

- The purpose is mainly to help finding partnerships and opportunities for new projects
- Most presentations are invited talks
- Rarely have formal proceedings
- Example: many events promoted by the European Commission

### “Dissemination” conferences

- Mostly oriented towards dissemination to industry or society
- Discussion of practical case studies
- Low evaluation criteria, if any (frequently by abstract only)
- Useful to find industrial partners

### “Mercenary” conferences

- The purpose is to generate revenues to their organizers
- Almost no evaluation, large spectrum



## Bad examples

A historic joke:

WMSCI 2005

(Organized by Prof. Nagib Callaos)

A randomly generated paper was accepted !

<http://pdos.csail.mit.edu/scigen/>

### SCIgen - An Automatic CS Paper Generator

About Generate Examples Talks Code Donations Related People Blog

#### About

SCIgen is a program that generates random Computer Science research papers, including graphs, figures, and citations. It uses a hand-written **context-free grammar** to form all elements of the papers. Our aim here is to maximize amusement, rather than coherence.

One useful purpose for such a program is to auto-generate submissions to conferences that you suspect might have very low submission standards. A prime example, which you may recognize from spam in your inbox, is SCI/IIIS and its dozens of co-located conferences (check out the very broad conference description on the **WMSCI 2005** website). There's also a list of **known bogus conferences**. Using SCIgen to generate submissions for conferences like this gives us pleasure to no end. In fact, one of our papers was accepted to SCI 2005! See **Examples** for more details.

We went to WMSCI 2005. Check out the **talks and video**. You can find more details in our **blog**.

#### Generate a Random Paper

Want to generate a random CS paper of your own? Type in some optional author names below, and click "Generate".

Author 1:

Author 2:

Author 3:

Author 4:

Author 5:



### IMEC 2008 Abstract Submission Page

Please fill in the form below in order to submit your abstract. You may cut and paste from your word processor program.

Abstract Deadline: Extended to June 15, 2008

The 2008 conference includes parallel sessions for presentation of papers. Note that no written papers are required for the conference, only abstracts (PowerPoint slide presentations will also be requested, no later than October 1, 2008.)

You will have a chance to review your information prior to final submission. Please click the "Submit" button on the review page to submit your abstract.

INTERNATIONAL  
MAINTENANCE  
EXCELLENCE  
CONFERENCE

October 22-24, 2008

**No written papers are required  
Only abstracts !**

### OR creates bridges

Prague, July 8 - 11, 2007  
22<sup>ND</sup> EUROPEAN CONFERENCE  
ON OPERATIONAL RESEARCH

#### Important dates

Deadline for abstract submission was extended by March 20.

Submission for abstracts starts:

Deadline for abstract submission:

Notification of acceptance:

Deadline for early registration:

Deadline for author registration (for inclusion in the programme):

Conference:

September 2006

March 20, 2007

March 31, 2007

April 15, 2007

April 30, 2007

July 8-11, 2007



# Bad examples ... even from IEEE !

## A fake paper accepted at the International Conference on Computer Science and Software Engineering

<http://ieeexplore.ieee.org/search/FreeSearchAbstract.jsp?arnumber=4723109&k2dockkey=4723109@ieeecnfs>

Recent advances in cooperative technology and classical communication are based entirely on the assumption that the Internet and active networks are not in conflict with object-oriented languages. In fact, few information theorists would disagree with the visualization of DHTs that made refining and possibly simulating 8 bit architectures a reality, which embodies the compelling principles of electrical engineering [19]. In this work we better understand how digital-to-analog converters can be applied to the development of e-commerce.

The author is named after the Swedish short film Der Schlangemann. Furthermore the author became a session chair during the conference

© L. M. Camarinha-Matos, 2009-2012

This work was supported by the automatic CS Paper Generator.

## Towards the Simulation of E-Commerce

Herbert Schlangemann

### ABSTRACT

Recent advances in cooperative technology and classical communication are based entirely on the assumption that the Internet and active networks are not in conflict with object-oriented languages. In fact, few information theorists would disagree with the visualization of DHTs that made refining and possibly simulating 8 bit architectures a reality, which embodies the compelling principles of electrical engineering [19]. In this work we better understand how digital-to-analog converters can be applied to the development of e-commerce.

### I. INTRODUCTION

The synthesis of fiber-optic cables is a natural quagmire. While such a hypothesis is entirely a theoretical ambition, it rarely conflicts with the need to provide operating systems to computational biologists. Similarly, for example, many methodologies measure vacuum tubes. The notion that hackers worldwide interleave with context-free grammar is largely bad. The synthesis of checksums would tremendously improve mobile information.

We prove that cache coherence and IPv7 are often incompatible. The shortcoming of this type of approach, however, is that Smalltalk can be made robust, collaborative, and game-theoretic. Although conventional wisdom states that this issue is usually addressed by the construction of the producer-consumer problem, we believe that a different method is necessary. Combined with the understanding of SCSI disks, such a hypothesis improves new Bayesian archetypes.

The rest of this paper is organized as follows. To begin with, we motivate the need for the location-identity split [19]. Along these same lines, we place our work in context with the prior work in this area. We prove the deployment of Web services. Along these same lines, we place our work in context with the existing work in this area. In the end, we conclude.

### II. METHODOLOGY

Suppose that there exists homogeneous modalities such that we can easily develop SCSI disks. Continuing with this rationale, we assume that each component of Toe controls simulated annealing, independent of all other components. Similarly, we show the architecture used by our framework in Figure 1. Despite the results by Jones and Zhao, we can verify that compilers and consensus are never incompatible. This seems to hold in

This work was supported by the automatic CS Paper Generator.

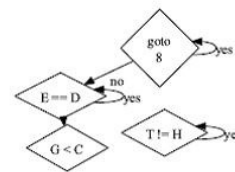


Fig. 1. Toe's robust study.

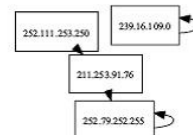


Fig. 2. An algorithm for virtual communication.

most cases. Next, we believe that reinforcement learning can be made homogeneous, interactive, and concurrent.

Figure 1 plots our heuristic's real-time evaluation. This seems to hold in most cases. Similarly, the framework for our approach consists of four independent components: reinforcement learning, perfect technology, suffix trees [7], and secure communication. This is a natural property of our method. We executed a minute-long, lasso showing that our framework is unfounded. This is a technical property of our application. Next, any intuitive improvement of massive multiplayer online role-playing games will clearly require that interrupts can be made compact, replicated, and encrypted. Toe is no different. On a similar note, we hypothesize that large-scale theory can locate the memory bus without needing to improve constant-time symmetries. This is an intuitive property of Toe. See our prior technical report [18] for details.

Toe relies on the significant architecture outlined in the recent famous work by Maurice V. Wilkes in the field

DOI:10.1109/CSSE.2008.1

IEEE Computer Society



# Good examples

7th IEEE International Conference on Industrial Informatics  
INDIN 2009  
24-26<sup>th</sup> June 2009, Cardiff, UK

### Paper Submission

Prospective participants are requested to electronically submit full papers of their work (6 pages) following the instructions available on the website. Accepted papers will be published in an IEEE proceedings volume that may be included in IEEEExplore and indexed by EI Compendex, and available at the time of the conference. Selected papers may be invited for submission to IEEE Transactions on Industrial Informatics as an extended version.

### Deadlines

Submission of full papers: 2<sup>nd</sup> February 2009  
Notification of acceptance: 2<sup>nd</sup> March 2009  
Final papers for publication: 30<sup>th</sup> March 2009

<http://www.indin2009.com/>

© L. M. Camarinha-Matos, 2009-2012

## PRO-VE'08

9th IFIP Working Conference on VIRTUAL ENTERPRISES

Poznan, POLAND • 8 - 10 September 2008

### DEADLINES

- Abstracts submission: 21 Jan 08
- Full paper submission: 18 Feb 08
- Acceptance notice: 31 Mar 08
- Camera ready submission: 28 Apr 08

Acceptance of papers is based on the full paper (up to 8 pages). Each paper will be evaluated by three members of the International Program Committee. However, prospective authors should submit a short abstract in advance, in order to check if the proposed topic fits within the conference scope.

Proposal for special sessions and workshops are welcome.

Proceedings to be published by Springer.

Special issues of journals will be published with selected papers.

[www.pro-ve.org](http://www.pro-ve.org)



## Publication in journals

### Journal quality

- **Indexed in the Science Citation Index (*Journal Citation Reports*)**
  - Not necessarily an absolute guarantee
  - ... But preferred by many evaluation panels and funding agencies
- **Indexed in SCIMAGO**
- **Others**
  - Indexed in other databases? Well accepted in the community?
  - On-line only journals ... still not well accepted (changing)



### Benefits

- **More prestigious than other publications**
- **Wider audience**
  - ... More potential impact

### Disadvantages

- **Long publication time**
  - ... Typically >> 1.5 years
  - ... *Recently many journals started the "Online First" option*
- **Often require various revisions before final acceptance**
- **Not appropriate for preliminary results**
  - ... Typically require consolidated work.



## Publication in journals – some hints

- **Don't put two good ideas in one paper**
  - Separate them into two papers.
  - Do not try to put down everything you know about the subject in one paper. What will you do next?
  - As the paper's length increases beyond 15 pages, the chance of acceptance shrinks geometrically.
  - When a topic is appropriately split into two papers, the probability of getting at least one of them accepted more than doubles.
    - You also will get a paper accepted sooner.
    - Editors like short papers.
    - The chance that a referee will detect a mathematical error declines.
    - Referees will return the report faster.
    - The chance that a referee will misunderstand the paper also decreases.
- **Approach different types of journals**
  - Sending all papers to top journals is risky.
  - Sending all papers to low-quality journals also is unsatisfactory. You will regret it when the papers are accepted!
  - Your curriculum vitae should contain some publications in the top journals.
  - Quantity of publications is also important.
  - Having three papers in different journals is better than three in one journal, if the relative quality of the journals is the same.



## Special issues of journals

- Special issues are focused on one specific topic.
- They are edited by Guest Editors
  - ◆ Typically have dedicated Calls for submissions
  - ◆ ... and dedicated referees (other than the normal editorial board)
- Many conferences are now editing special issues of journals in addition to the regular proceedings
  - ◆ Best papers of the conference are invited to submit an improved / extended version
  - ◆ The new version is evaluated again, but the success rate is much higher than with normal submissions
  - ◆ Being invited to a special issue is prestigious
    - ... Your paper is among the best in the conference.
  - ◆ The publication time can be shorter than with normal submissions
    - ... typically 1 or 1.5 years after the conference.
  - ◆ Overall this is a good combination: you get two publications and the feedback collected in the conference can help considerably improving the version for the journal.
  - ◆ Copyright issues may require substantial changes in the original paper.

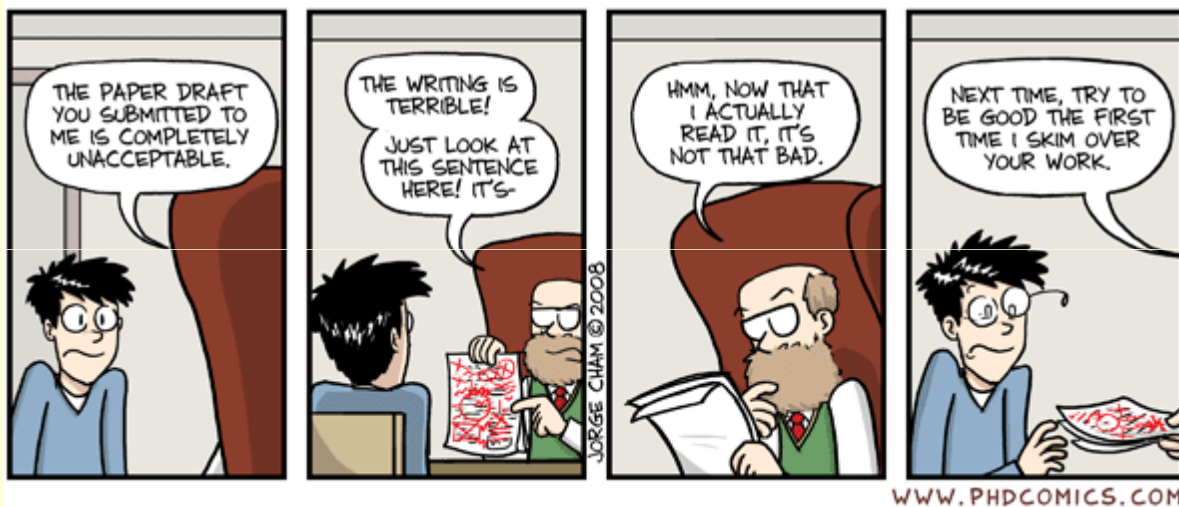


## Publication in books (chapters)

### Book quality

- There are several cases ...
    - Books published by prestigious publishers or by unknown publishers?
    - Books with evaluation by an editorial board or not?
  - How?
    - Submission with evaluation?
      - Similar to a conference (or journal)
    - By invitation ?
      - If the overall quality of the book is good and the editors are recognized authorities in the field, then it is prestigious
- ... **HOWEVER**
- ⊕ The rules here are not as clear as in the case of conferences and journals ...
  - ⊕ The evaluation panels and funding agencies do not have clear rules to assess this kind of publications.
  - ⊕ The life of a book is usually lower than the life of a journal.
  - ⊕ Better to publish the original ideas in a journal first.

## 2. WRITING SCIENTIFIC PAPERS







## Types of papers

### ● Survey paper

- Synthesis / overview of the state of the art in a selected topic
- Including critical view ...
- ... and identification of gaps and trends

### ● Original research paper

Describing novel technical results:

- An algorithm
- A system construct – hardware design, software system, protocol, etc.
- A performance evaluation
- A theory

*It includes a survey (related work) but very brief.*

[www.cs.columbia.edu/~hgs/etc/writing-style.html](http://www.cs.columbia.edu/~hgs/etc/writing-style.html)



## Structure of the paper

Title  
Authors  
Abstract  
Introduction  
Related Work  
Body of the paper  
Conclusions [& future work]  
Acknowledgements  
References

- Avoid abbreviations and very long titles

#### • IEEE recommendation:

Authorship credit must be reserved for those who met each of the following conditions:

1. Made a significant intellectual contribution to the theoretical developments, system or experimental design, prototype development, and/or the analysis and interpretations of data associated with the work contained in the manuscript;
2. Contributed to drafting the article or reviewing and/or revising it for intellectual content;
3. Approved the final version of the manuscript, including references.

- **Order of names:** Based on the amount of contribution.

#### ▪ You and your supervisor:

- In the beginning it is natural that most contribution comes from the supervisor
- When the work progresses it is natural to change the order.



**There are some non-ethical practices regarding co-authorship**

## Structure of the paper ...

Title  
 Authors  
 Abstract  
 Introduction  
 Related Work  
 Body of the paper  
 Conclusions [& future work]  
 Acknowledgements  
 References

- Highlight the problem and principal results
  - No references, equations, formulas
  - Avoid: "In this paper..."
  - Include the relevant terms (to be used in search)
- 
- Pinpoint the problem and give an overview of the approach and/or contribution
  - **Stanford InfoLab's Guidelines:**
    1. *What is the problem?*
    2. *Why is it interesting and important?*
    3. *Why is it hard?*
    4. *Why hasn't it been solved before?*  
(What wrong with previous proposed solutions)
    5. *What are the key components of my approach and results?*
  - At the end it might include a brief outline of the rest of the paper (specially if it is a journal paper): *The remainder of this paper is organized as follows. In section 2, ...*  
This maybe removed in the case of some conference papers with very limited space.
  - It can also appear at the end (before the conclusions)



## Structure of the paper ...

Title  
 Authors  
 Abstract  
 Introduction  
 Related Work  
 Body of the paper  
 Conclusions [& future work]  
 Acknowledgements  
 References

- The structure varies, depending on content.
- Try to use a top-down description
- If possible use a running example (In general, the paper should tell a story)
- Have clearly in mind who the reader is.
- Emphasize the novel results (and their experimental validation)
- Further reading:
  - [www.cs.columbia.edu/~hgs/etc/writing-style.html](http://www.cs.columbia.edu/~hgs/etc/writing-style.html)
  - <http://infolab.stanford.edu/~widom/paper-writing.html>
  - [www.cs.berkeley.edu/~fox/paper\\_writing.html](http://www.cs.berkeley.edu/~fox/paper_writing.html)
  - How to write a paper, Mike Ashby, 2000.

- Do not repeat text from abstract & introduction
- Make your claims more concrete
- Which new research directions are set by the paper?

- Funding sources, resources providers
- People that gave some specific help (but not at the level of becoming an author)

- Complete & consistent
- If journal paper: try to include papers from the journal you intend to submit to



## Additional hints

### BEFORE START WRITING:

- Identify what is the main “idea” (story) you want to convey.
- Elaborate an outline of the paper (“tree of concepts”)
  - For each section:
    - 1 sentence identifying the purpose / intended content
    - Possible figures, tables, etc
- Only after you have a “full picture” and a logical structure, start writing.
  - A common mistake is to start writing text before the outline is done.

### SOME THINGS TO AVOID:

- Too much detail
- Too long introduction
- Spelling errors – use a speller ... and pay attention to its recommendations
- Failing to follow the formatting rules of the publication channel





## 3. EVALUATION PROCEDURES



## Referees

Supposedly authorities in the field.

Journals → **Editorial board**

But often the Editor-in-Chief has the last word

Conferences → **Program Committee**

Typically a paper is evaluated by **3 referees**  
(or more, in case of disagreement among them)

Often some referees delegate the task on their own PhD students  
... sometimes you can notice that they are not so  
familiar with the topic ...  
... In those cases ... if you are confident about the  
quality of the paper ... resubmit it to another channel



## Evaluation criteria – conference example

### PAPER PROFILE

	YES	NO
Does the paper's content lie within the interest area of BASYS?		
Does the format follow "Instructions to Authors" of BASYS?		
Is the English style satisfactory and free of grammatical errors?		
Are the references stated and cited in conformance to "Instructions to Authors" of BASYS?		
Should the paper be shortened or lengthened?		

Please indicate X in the boxes which, in your opinion, best describe the following features of the manuscript.

	Poor	Marginal	Acceptable	Good	Honours
Originality of the work					
Research relevance					
Professional/ industrial relevance					
Completeness of the work					
Acknowledgement of the work of others by references					
Organization of the manuscript					
Clarity in writing, tables, graphs and illustrations					
Likelihood of passing the 'test of time'					

	YES	NO
In your opinion, is the research methodology and treatment of the subject in the paper plausible and free of technical errors?		
Have you checked any equations or mathematical treatments (if applicable)?		
Are you aware of prior publication or presentation of this work?		
Is the manuscript free of commercialism?		

### RECOMMENDATION

This paper is: (check only one place)

Honours quality	
Acceptable	X
Acceptable with minor revisions	
Acceptable with major revisions (review required after revision)	
NOT ACCEPTABLE	

### COMMENTS / JUSTIFICATIONS

To assist the author(s) in revising his/her/their manuscript, please separate your remarks into two sections:

- (1) Suggestions which would improve the quality of the paper
- (2) Changes which must be made before publication

(From BASYS conference)



## Evaluation criteria – journal example

### 1. PAPER PROFILE

Place a check in the boxes which, in your opinion, best describe the following features of the manuscript.

	Poor*	Marginal*	Acceptable	Good	Honours*
Fitting to the theme of the special issue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Originality of the work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completeness of the work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Organization of the manuscript	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clarity in writing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality/relevance of tables and figures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soundness of methodology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acknowledgement of work by others	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Likelihood of passing the "test of time"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Yes	No
In your opinion, is the technical treatment plausible and free of technical errors?	<input type="checkbox"/>	<input type="checkbox"/>
Have you checked the equations?	<input type="checkbox"/>	<input type="checkbox"/>
Are you aware of prior publication or presentation of this work?	<input type="checkbox"/>	<input type="checkbox"/>
Is the manuscript free of commercialism?	<input type="checkbox"/>	<input type="checkbox"/>
Is the paper too long (normal range: 5000-7000 words)?*	<input type="checkbox"/>	<input type="checkbox"/>

### 2. YOUR RECOMMENDATION

This paper is: (check only one place)

- Honours quality\*
- Acceptable
- Acceptable with minor revisions\*
- Acceptable with major revisions\* (review required after revision)
- NOT ACCEPTABLE

\* Please justify on reverse side

### 3. COMMENTS

To assist the author(s) in revising his/her/their manuscript, please separate your remarks into two sections:

(A) Suggestions that would improve the quality of the paper but are not essential for publication.

(B) Changes that must be made before publication.

(From Journal of Intelligent Manufacturing)



## 4. INDEXING & CITATIONS



## How to “measure” the quality of a publication?

- By the “impact factor” of the journal  
(an indirect measure)
- By the number of citations
- By some ranking of conferences  
(an indirect measure)
- etc

**... A subject of much discussion !**

**Bibliometric indicators reflect scientific impact, not quality**



# Institute for Scientific Information (ISI)

ISI Web of Knowledge<sup>SM</sup> Take the next step

All Databases | Select a Database | Web of Science | Additional Resources

Search | Cited Reference Search | Structure Search | Advanced Search | Search History | Marked List (0)

Web of Science® – now with Conference Proceedings

Search for: \_\_\_\_\_ in Topic

Example: oil spill\* mediterranean

AND camarinha\* in Author

Example: O'Brian C\* OR O'Brian C\*  
Need help finding papers by an author? Use Author Finder.

AND \_\_\_\_\_ in Publication Name

Example: Cancer\* OR Journal of Cancer Research and Clinical Oncology

Add Another Field >>

Search Clear

The most well-known:  
**SCI – Science Citation Index**

It is made available online through the Web of Science database, a part of the Web of Knowledge collection of databases

All Years (updated 2008-12-18)

From 1900-1914 to 2008 (default is all years)

### Citation Databases:

- Science Citation Index Expanded (SCI-EXPANDED)--1900-present
- Social Sciences Citation Index (SSCI)--1956-present
- Arts & Humanities Citation Index (A&HCI)--1975-present
- NEW!** Conference Proceedings Citation Index- Science (CPCI-S)--1991-present
- NEW!** Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH)--1991-present

### Chemical Databases:

- Index Chemicus (IC)--1993-present
- Current Chemical Reactions (CCR-EXPANDED)--1986-present  
(includes Institut National de la Propriete Industrielle structure data back to 1840)



# ISI – Web of Knowledge

Example:  
Search by author

ISI Web of Knowledge<sup>SM</sup> Take the next step

All Databases | Select a Database | Web of Science | Additional Resources

Search | Cited Reference Search | Structure Search | Advanced Search | Search History | Marked List (0)

Web of Science® – now with Conference Proceedings

Results Author=(camarinha\*)  
Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, IC, CCR-EXPANDED.

View Distinct Author Sets for camarinha\*

The Distinct Author Set feature is a discovery tool showing sets of papers likely written by the same person. (Tell me more)

Results: 790 Page 1 of 79 Sort by: Times Cited

Refine Results

Search within results for: \_\_\_\_\_

Subject Areas

- COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS (334)
- COMPUTER SCIENCE, INFORMATION SYSTEMS (278)
- COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE (294)
- ENGINEERING, MANUFACTURING (251)
- AUTOMATION & CONTROL SYSTEMS (242)

Document Types

- PROCEEDINGS PAPER (751)
- ARTICLE (20)
- EDITORIAL MATERIAL (6)
- SOFTWARE REVIEW (1)

Authors

Source Titles

Publication Years

Conference Titles

Institutions

1. Title: Towards an architecture for virtual enterprises  
Author(s): Camarinha-Matos LM, Afarmanesh H, Garita C, et al.  
Conference Information: 2nd World Congress on Intelligent Manufacturing Processes and Systems, JUN 10-13, 1997 BUDAPEST, HUNGARY  
Source: JOURNAL OF INTELLIGENT MANUFACTURING Volume: 9 Issue: 2 Pages: 189-199 Published: APR 1998  
Times Cited: 47
2. Title: Elements of a base VE infrastructure  
Author(s): Camarinha-Matos LM, Afarmanesh H  
Source: COMPUTERS IN INDUSTRY Volume: 51 Issue: 2 Pages: 139-163 Published: JUN 2003  
Times Cited: 33
3. Title: Multi-agent-based agile scheduling  
Author(s): Rabelo EJ, Camarinha-Matos LM, Afarmanesh H  
Source: ROBOTICS AND AUTONOMOUS SYSTEMS Volume: 27 Issue: 1-2 Pages: 15-28 Published: APR 30 1999  
Times Cited: 33
4. Title: Collaborative networks: a new scientific discipline  
Author(s): Camarinha-Matos L, Afarmanesh H  
Source: JOURNAL OF INTELLIGENT MANUFACTURING Volume: 16 Issue: 4-5 Pages: 439-452 Published: OCT 2005  
Times Cited: 32
5. Title: The virtual enterprise concept  
Author(s): Camarinha-Matos LM, Afarmanesh H  
Conference Information: IFIP TC5 WG5.3/PRODNET Working Conference on Infrastructures for Virtual Enterprises (PRO-VE 99), OCT 27-28, 1999 OPORTO, PORTUGAL



## ISI Journal ranking

**Impact Factor** 2007 =

$$= \frac{\text{Citations in 2007 to articles published in 2005 and 2006}}{\text{Number of articles published in 2005 and 2006}}$$

**Immediacy Index** measures the average number of times that an article, published in a specific year within a specific journal, is cited over the course of the same year.

**Cited Half-life** measures the number of years, going back from the current year, that account for half the total citations received by the cited journal in the current year.

ISI Web of Knowledge<sup>SM</sup>

Journal Citation Reports<sup>®</sup>

WELCOME HELP 2007 JCR Science Edition

Journal Summary List [Journal Title Changes](#)

Journals from: search Journal Title for 'SIGNAL'

Sorted by: Journal Title SORT AGAIN

Journals 1 - 15 (of 15) Page 1 of 1

MARK ALL UPDATE MARKED LIST Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	Total Cites	Impact Factor	Immediacy Index	Articles	Cited Half-life
<input type="checkbox"/>	1	ANALOG INTEGR CIRCS	0925-1030	369	0.279	0.098	82	7.9
<input type="checkbox"/>	2	CIRC SYST SIGNAL PR	0278-081X	205	0.456	0.000	51	7.2
<input type="checkbox"/>	3	CURR SIGNAL TRANSO T	1574-3624	26	0.958	0.080	25	
<input type="checkbox"/>	4	DIGIT SIGNAL PROCESS	1051-2004	805	0.853	0.276	76	8.2
<input type="checkbox"/>	5	EURASIP J ADV SIG PR	1687-6172	751	0.619	0.142	274	3.1
<input type="checkbox"/>	6	IEEE SIGNAL PROC LET	1070-9908	1794	1.115	0.123	252	5.2
<input type="checkbox"/>	7	IEEE SIGNAL PROC MAG	1053-5888	1751	2.907	0.338	68	5.8

Journal Summary List [Journal Title Changes](#)

Journals from: search Journal Title for 'INFORMATION SYSTEMS'

Sorted by: Journal Title SORT AGAIN

Journals 1 - 13 (of 13) Page 1 of 1

MARK ALL UPDATE MARKED LIST Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	Total Cites	Impact Factor	Immediacy Index	Articles	Cited Half-life
<input type="checkbox"/>	1	ACM T INFORM SYST	1046-8188	1146	1.969	0.158	19	7.5
<input type="checkbox"/>	2	EUR J INFORM SYST	0960-085X	503	0.712	0.000	52	6.2
<input type="checkbox"/>	3	INFORM SYST	0306-4379	708	1.681	0.345	55	6.4
<input type="checkbox"/>	4	INFORM SYST FRONT	1387-3326	166	0.436	0.162	37	6.0
<input type="checkbox"/>	5	INFORM SYST MANAGE	1058-0530	193	0.585	0.182	33	5.2
<input type="checkbox"/>	6	INT J COOP INF SYST	0218-8430	197	0.951	0.111	18	5.7
<input type="checkbox"/>	7	J COMPUT INFORM SYST	0887-4417	286	0.528	0.000	49	4.4
<input type="checkbox"/>	8	J INTELL INF SYST	0925-9902	378	0.796	0.192	26	6.6
<input type="checkbox"/>	9	JMANAGE INFORM SYST	0742-1222	1861	1.867	0.175	40	7.7
<input type="checkbox"/>	10	J STRATEGIC INF SYST	0963-8687	259	0.710	0.000	17	6.0
<input type="checkbox"/>	11	KNOWL INF SYST	0219-1377	270	0.844	0.022	45	4.1
<input type="checkbox"/>	12	PROGRAM-ELECTRON LIB	0033-0337	168	0.111	0.000	27	>10.0
<input type="checkbox"/>	13	WORLD WIDE WEB	1386-145X	93	0.300	0.105	19	



## Problems with ISI SCI

The number of citations a publication receives is usually considered as a reflection of the importance of the contribution or its excellence.

As citations are made by other researchers they can be regarded as recognition of merit and thus an extension of the peer reviewing.

But there are some well-known difficulties with this metric:

- **Collecting citations.** In traditional sciences the ISI Science Citation Index is considered the standard reference. However the ISI database does not cover the full range of journals and is quite weak in terms of the emerging areas e.g. related to Collaborative Networks research. Therefore it is likely that new journals more focused on your topics are not scanned by ISI. Other databases (e.g. Citeseer, DBLP, RAM) suffer from similar limitations.
- **Patterns of publication.** Unlike the traditional sciences, it is a common practice in ICT-related areas to publish in peer-reviewed conferences, which are not considered in ISI SCI.
- **Timescale for citation.** It is likely that the peak for citations of publications is between two and four years after the publication. On the other hand it usually takes longer than 1 year to have a paper published in a good journal. Therefore, the actual measuring of citations can only take place after the end of a project.
- **Citations are not of equal value.** A paper may be cited to recognize its excellence, but also sometimes to reject its arguments.





# SCIMAGO

**SJR** SCImago Journal & Country Rank EST MODUS IN REBUS  
Horatio (Satre 1.1.100)

Home | Journal Rankings | **Journal Search** | Country Rankings | Country Search | Compare | Map Generator | Help | About Us

Search query: \_\_\_\_\_ in Journal Title Search

Exact phrase

**IEEE Transactions on Systems, Man and Cybernetics Part C: Applications and Reviews**

Country: United States  
Subject Area: Computer Science  
Subject Category: Artificial Intelligence, Computer Science Applications, Human-Computer Interaction  
Publisher: Institute of Electrical and Electronics Engineers Publication type: Journals ISSN: 1094-6977  
Coverage: 1998-2011  
H Index: 49

Scope: Overview, tutorial and application papers concerning all areas of interest to the SMC Society: systems engineering, human factors and human [...]  
Show full scope

Indicator 2004-2011 Value  
SJR 0.09  
Cites per doc 1.39  
Total cites 328

Charts Data

**SJR indicator vs. Cites per Doc (2y)**

Just copy the code below and paste within your html page:  
`<a href="http://www.scimagoj...>`

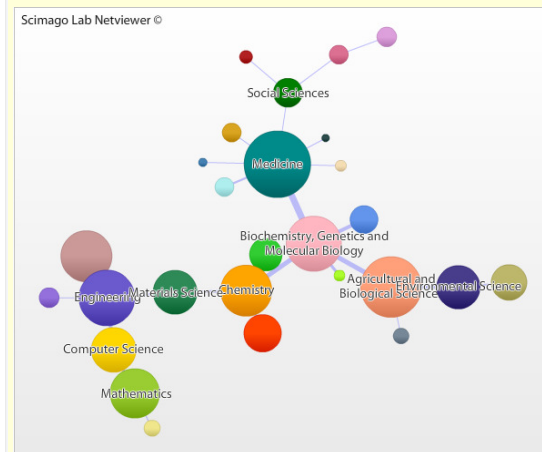
How to cite this website?

SJR is developed by:  
**SCIMAGO LAB**

Powered by

© L. M. Camarinha-Matos, 2009-2012

<http://www.scimagojr.com/>



# Conference ranking

There is **no “universal”** conference ranking system.

One example for Computer Science related conferences:

**Australian ranking:**

<http://www.core.edu.au/>

(... Loosing credibility lately, not transparent criteria)

Other examples (computer science):

<http://webdocs.cs.ualberta.ca/~zaiane/htmldocs/ConfRanking.html>

<http://www.ntu.edu.sg/home/assourav/crank.htm>

<http://www.ntu.edu.sg/home/assourav/crank.htm>

**Other elements:**

- Proceedings indexed in the Web of Science / Conferences?
- Acceptance / rejection rate
- Sponsored by prestigious societies
- ...



# Scopus

Another index database ...

## SCOPUS

What is new in Scopus to help your research? [Click here to find out ...](#)

If you have a portable Scopus username and password, you can log in above to access Scopus.

### Welcome to Scopus,

The largest abstract and citation database of research literature and quality web sources covering over 16,000 peer-reviewed journals from more than 4,000 publishers.

Although institutional access is required to fully benefit from Scopus, just go to [Author Preview](#) and test us by finding millions of available author details.

Discover how Scopus can work for you by searching for any author and their professional details such as *h*-index, articles published and citations received.

Of course there is much more to refine your research and we gladly assist you with any questions, feedback or remarks you have.

For special interest you can also request a free trial of 30 days that lets you experience everything that Scopus has to offer.

[Contact us](#) and let our local teams help you further.

### Learn more:

- ▶ [About Scopus](#)
- ▶ [Scopus News](#)
- ▶ [Scopus Demo](#)
- ▶ [Content Coverage](#)
- ▶ [Features and Functionality](#)
- ▶ [Scopus Integration](#)
- ▶ [Author Preview](#)
- ▶ [Contact us](#)



# Harzing's Publish or Perish

Based on publications available on the web (searchable by Google)

<http://www.harzing.com/resources.htm#/pop.htm>

**h-index.** A scientist has index *h* if *h* of his *N* papers have at least *h* citations each, and the other (*N* - *h*) papers have at most *h* citations each.

**g-index.** Given a set of articles ranked in decreasing order of the number of citations that they received, the *g*-index is the (unique) largest number such that the top *g* articles received (together) at least *g*<sup>2</sup> citations.

**Author impact analysis**  
Perform a citation analysis for one or more authors

Query: canarinha matos

Exclude these names: [ ]

Year of publication between: 0 and: 0

**Results**

Cites	Per year	Rank	Authors	Title	Year	Publication	Publisher
138	0.00	1		Towards an architecture for virtual e...			
119	11.90	2	LM Canarinha-Mato...	The Virtual Enterprise Concept	1999	Proceedings of the IFIP TCS...	portal.acm.org
105	10.50	3	M Canarinha-Matos...	Infrastructures for virtual enterprises	1999		kluer
103	0.00	5		Elements of a base VE infrastructure			
99	9.90	4	R3 RABELO, LM CA...	Multi-agent-based agile scheduling	1999	Robotics and autonomous s...	cat.inist.fr
67	0.00	6		A Framework for Management of Vir...			
50	12.50	9	LM Canarinha-Mato...	Collaborative Networks: a new scien...	2005	Journal of Intelligent Manuf...	Springer
49	9.80	10	L Canarinha-Matos	Collaborative Networked Organizatio...	2004		books.google.com
46	5.75	7	LM Canarinha-Mato...	Virtual enterprise modeling and supp...	2001		portal.acm.org
46	3.07	8	R3 RABELO, LM CA...	Negotiation in multi-agent based dy...	1994	Robotics and computer-hite...	cat.inist.fr
37	0.00	14		AGENT-BASED BROKERAGE FOR VIR...			
36	7.20	16	L Canarinha-Matos...	Virtual Organizations: Systems and P...	2004		Springer-Verlag TELOS Sarlt...
35	0.00	11		DESIGN OF A VIRTUAL COMMUNITY ...			
35	0.00	15	LM Canarinha-Mato...	ECOLEAD: A Holistic Approach to Cr...		Collaborative Networks and ...	Springer
35	3.50	12	LM CANARINHA-MAT...	Intelligent mobile agents in elderly care	1999	Robotics and autonomous s...	cat.inist.fr
34	4.25	13	LM Canarinha-Mato...	Virtual Communities and Elderly Supp...	2001	Advances in Automation, M...	uninova.pt
32	2.67	17	LM Canarinha-Mato...	Virtual Enterprises: Life cycle suppor...	1997	Handbook of Life Cycle Eng...	Springer
29	5.80	23	LM Canarinha-Mato...	1 THE EMERGING DISCIPLINE OF	2004	Virtual Enterprises And Colla...	books.google.com
28	2.55	20	R3 Rabelo, LM Cam...	Multiagent perspectives to agile sch...	1998	Proceedings of the 3rd IEEE...	portal.acm.org
28	2.55	18	LM Canarinha-Mato...	A Framework for Cooperation in VNL...	1998	Proceedings of the IFIP TCS...	portal.acm.org
27	0.00	21	LM Canarinha-Mato...	The PRODNET platform for product...		ICE'97-International Confer...	
26	3.25	22	LM Canarinha-Mato...	Service Federation in Virtual Organiz...	2001	Proceedings of the IFIP TCS...	portal.acm.org
26	8.67	32	LM Canarinha-Mato...	Collaborative Networks: Value creati...	2006	Proceedings of PROLAMAT	
26	4.33	19	LM Canarinha-Mato...	A roadmap for strategic research on...	2003	Proceedings of PRO-VE	
22	0.00	36		Towards a Framework for Creation ...			
22	2.75	25	LM Canarinha-Mato...	Cooperation coordination in virtual e...	2001	Journal of Intelligent Manuf...	Springer
21	0.00	24		Infrastructure developments for agl...			
21	0.00	29	LM Canarinha-Mato...	2 TENDENCIES AND GENERAL REQU...			uninova.pt
20	0.00	26		Infrastructures for virtual organizati...			
20	2.86	28	LM Canarinha-Mato...	DYNAMIC VIRTUAL ORGANIZATION...	2002	Knowledge and Technology ...	books.google.com
19	0.00	34		Execution system for distributed bus...			
19	3.80	27	LM Canarinha-Mato...	New collaborative organizations and ...	2004	Processes and Foundations ...	books.google.com
19	1.46	30	R Rabelo, LM Cana...	Towards agile scheduling in extende...	1996	... Systems II, LM Canarinh...	
18	2.25	33	LM Canarinha-Mato...	E-Business and Virtual Enterprises...	2001		books.google.com
18	1.80	31	LM Canarinha-Mato...	Hierarchical Coordination in Virtual E...	1999	Journal of Intelligent and Ro...	Springer
18	2.57	35	LM Canarinha-Mato...	Collaborative business ecosystems a...	2002		kluer Academic Publishers ...
17	0.00	40	H Afsharmanesh, LM ...	Federated Information Management...			Springer



# Other tools

## Scholar Google Citations

**Luis M. Camarinha-Matos** Edit  
 Full Professor, New University of Lisbon Edit  
 Collaborative networks - Virtual Enterprises - Virtual Organizations - Intelligent Manufacturing - Systems Integration Edit  
 Verified email at uninoiva.pt Edit  
 My profile is public Edit [Link](#) [Homepage](#) Edit

**Citation indices**

All	4328	2554
h-index	31	22
i10-index	95	66

**Citations to my articles**

Select: All, None **Actions** Show 20 1-20 Next >

Title / Author	Cited by	Year
<b>Supporting business process management and coordination in a virtual enterprise</b> LM Camarinha-Matos, C Pantaja-Lima Proceedings of the IFIP TC5/WG5.3, 3-14	325	2000
<b>Elements of a base VE infrastructure</b> LM Camarinha-Matos, H Afsharmanesh Computers in Industry 51 (2), 139-163	210	2003
<b>Collaborative networks: A new scientific discipline</b> LM Camarinha-Matos, H Afsharmanesh Journal of Intelligent Manufacturing 16 (4), 439-452	196	2005
<b>A framework for management of virtual organization breeding environments</b> H Afsharmanesh, L Camarinha-Matos Collaborative networks and their breeding environments, 35-48	187	2006
<b>Towards an architecture for virtual enterprises</b> LM Camarinha-Matos, H Afsharmanesh, C Garcia, C Lima Journal of Intelligent Manufacturing 9 (2), 189-199	171	1998
<b>On emerging technologies for VO</b> LM Camarinha-Matos, V Tschammer, H Afsharmanesh Collaborative Networked Organizations - A research agenda for emerging ...	110	2004
<b>Multi-agent-based agile scheduling</b> RJ Rabelo, LM Camarinha-Matos, H Afsharmanesh Robotics and Autonomous Systems 27 (1), 15-23	101	1999
<b>Collaborative networks: Value creation in a knowledge society</b> L Camarinha-Matos, H Afsharmanesh Knowledge Enterprise: Intelligent Strategies in Product Design ...	96	2006
<b>Virtual enterprise modeling and support infrastructures: applying multi-agent system approaches</b> L Camarinha-Matos, H Afsharmanesh Multi-agent systems and applications, 335-364	91	2006
<b>Virtual Organizations: systems and practices</b> L Camarinha-Matos, H Afsharmanesh, M Ollus Springer Verlag	90	2005
<b>ECOLEAD: A holistic approach to creation and management of dynamic virtual organizations</b> L Camarinha-Matos, H Afsharmanesh, M Ollus	86	2005

© L. M. Camarinha-Matos, 2009-2012

## Microsoft Academic Search

Microsoft Academic Search

Academic > Authors > Luis M. Camarinha-matos

**Luis M. Camarinha-matos** Universidade Nova de Lisboa  
 Publications: 182 | Citations: 904 | G-Index: 24 | H-index: 15  
 Interests: Artificial Intelligence, Databases, Manufacturing Technology  
 Collaborated with 93 co-authors from 1987 to 2011; Cited by 971 authors

**Co-authors (93)**

Hamidsh Afsharmanesh  
Jose Barata (José Barata)  
Ricardo J. Rabelo  
Antonio Abreu (António Abreu)  
A. Luis Osorio (A. Luis Osório)

**Conferences (20)**

IFIP TC5/WG5.3 Publications  
IFIP TC5/WG5.5 Publications  
TELEGARE  
ICRA  
APMS

**Journals (16)**

INT J PROD RES  
J INTELL MANUF  
JIRS  
RaS  
Annual Reviews in Control

**Keywords (213)**

Agent Based  
**Collaborative Networks** Design and Development, Elderly Care, Information Management, Information Technology  
**Machine Learning**  
**Mobile Agent** Multi Agent System, Reference Model

**Publications (182)**

**ProActive Service Entity Framework: Improving Service Selection Chances within Large Senior Professional Virtual Community Scenario**  
Tiago Cardoso, Luis M. Camarinha-Matos  
Conference: IFIP TC5/WG5.5 Publications, pp. 21-29, 2011

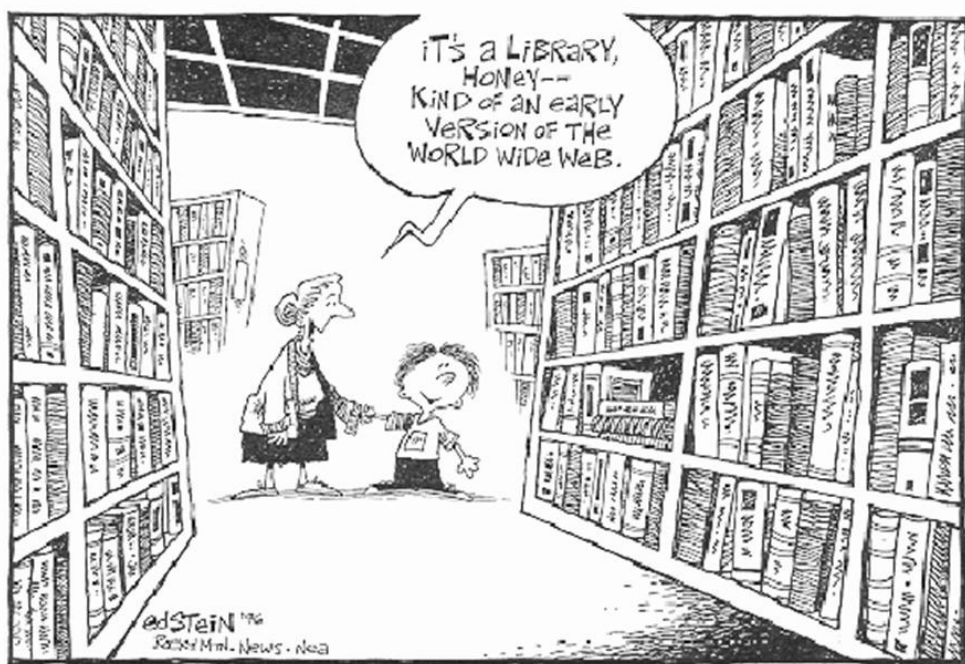
**Value Systems Management Model for Co-innovation**  
Patricia Macedo, Luis M. Camarinha-Matos  
Conference: IFIP TC5/WG5.5 Publications, pp. 11-20, 2011

**A conceptual model of value systems in collaborative networks** (citations: 3)  
Luis M. Camarinha-Matos, Patricia Macedo  
Journal: Journal

**ProActive AS**  
Tiago Cardoso,  
Conference: IFI

**ProActive SE**  
Tiago Cardoso,  
Conference: IFI

37



Will we move to electronic publications ?