Abstract. Publishing research results is an integral part of a researcher’s professional life. However, writing is not every researcher’s favorite activity, and the obstacles of getting a paper published can be nerve-wracking. This paper gives an introductory report on basic issues of writing and organizing scientific papers, and getting them published. The paper also outlines the process of publishing research papers in journals and conference proceedings, aiming to provide interested novices with a handy introductory guide.

1 Introduction

The dissemination of research results and findings is an integral part of the research process. Researchers write to keep records of their work for themselves, but more importantly also for the readers and peer researchers who are expecting a standard form, language, and style when reading research papers. Writing in a scientific style may be hard in the beginning for novices, but clear communication and concise writing have no magic involved [1]. In [2, p.1], Robert Day defines a scientific paper as “a written and published report describing original research results,” while acknowledging that scientific papers also have to meet requirements regarding how the paper is written and the way it is published. The process leading to publication is equally important as the content, style, and organization of the published paper. A scientific paper must be a valid publication, i.e. it must be published in the right place, for instance in a peer-reviewed journal in the respective field. When published in the wrong place (e.g., in a newspaper), even an excellent research report is not validly published. The Council of Biology Editors (CBE), a professional organization frequently cited on this topic, has come to the definition that an

“acceptable primary scientific publication must be the first disclosure containing sufficient information to enable peers
1. to assess observations,
2. to repeat experiments, and
3. to evaluate intellectual processes; moreover, it must be susceptible to sensory perception, essentially permanent, available to the scientific community without restriction, and available for recognized secondary services ...” ([3, p.1-2], as cited in [2, p.2])

These requirements imply that newsletters, conference reports, internal reports, newspapers, and most other text sources do not qualify as scientific papers. To show the process of composing scientific papers, one major part of this paper focuses on issues of organizing and writing them.

Once a paper is drafted, written, rewritten, and finished it deserves to be published validly. However, dealing with publishers, their editors, peer reviewer’s comments, deadlines, submission guidelines, and other obstacles on the way to the paper appearing in a printed volume can be one of the most time-consuming and exhaustive tasks in a researcher’s life. Therefore, the second major part of this paper outlines motivations and ways to publish research papers, primarily to serve novices with a handy introduction to this process.

2 Research Paper Writing

This section deals with issues of writing scientific research papers, from the intent to write a paper to planning the writing for professional publication. The major part of this section outlines principles of paper organization.

2.1 Intentions for Writing

One may ask why researchers have to write down what they have been doing, or what they are currently working on. Booth et al. [4, p.8-9] deliver three obvious reasons:

– to *remember*, because once something is forgotten, it cannot be reproduced correctly without having written notice;
– to *understand*, as writing about a subject can only be accomplished by approaching the subject in a structured way, which itself leads to better understanding thereof;
– to *gain perspective*, as writing includes looking at something from different points of view.

Still, it may be asked why researchers have to turn their writing into formal papers. Writing for others is more demanding than writing for oneself but it can help to get a better understanding of the own ideas [4]. As publications have system-maintaining roles in their respective sciences, additional motivations for researchers to write and publish their research work are [5, p.243-6]:

– Scientific communication. O’Connor [6, p.1] points out that this is essential if science is to progress.
– Ideal protection of intellectual property.
– Legal protection of intellectual property.
– Gain of reputation is certainly desirable.
– Thinking in economic measures, “sale to achieve high prices” may be trans-
  formed to “publish to achieve many citations” (economic theory of science).

Peat et al. [7, p.2] provide a list of rather pragmatic reasons for writing down 
and publishing research results. Among them are:

– You have some results that are worth reporting.
– You want to progress scientific thought.
– You want your work to reach a broad audience.
– You will improve your chance of promotion.
– It is unethical to conduct a study and not report the findings.

2.2 Paper Organization

The general structure of a paper comprises three major sections: introduction, 
body, and discussion. The progression of the thematic scope of a paper within 
these sections typically follows a general pattern, namely the “hourglass model” 
(Figure 1, left-hand side; cf. [8]): The introduction leads the reader from general 
motivations and a broad subject to a particular research question to be dealt with 
in the paper. The body of the paper stays within a tight thematic scope, describes 
the research methods and results in detail. Finally, the discussion section aims to 
draw general conclusions from the particular results. This is in line with Berry’s 
claim [9, p.99] that a research paper should be circular in argument, i.e., the 
conclusion should return to the opening, and examine the original purpose in 
the light of the research presented.

However, there are additional parts of a paper with equal importance: title, 
abstract, and the references. The extended hourglass model, which I chose to call 
the “King model” for its visual resemblance of the chess piece, is shown in the 
right-hand side of [1] The following subsections describe all parts of a published 
paper.

Title. The title is without doubt the part of a paper that is read most, and 
usually it is read first. Additionally, electronic indexing services rely heavily on 
the accuracy of the title to allow users to find papers relevant to their queries. 
Day defines a good title, “as the fewest possible words that adequately describe 
the contents of the paper” [2, p.9]. If the title is too long it usually contains 
to many waste words, e.g., “Investigations on ...” at the beginning of the 
title. On the other hand, titles which are too short often use words which are 
too general, e.g., the title “Writing Reports” does not provide any information 
on which kind of reports the paper focuses on.

Thus, according to [7, p.94], effective titles

– identify the main issue of the paper,
Abstract. Basically, an abstract comprises a one-paragraph summary of the whole paper. Abstracts have become increasingly important, as electronic publication databases are the primary means of finding research reports in a certain subject area today [10]. So everything relevant to potential readers should be in the abstract, everything else not.

According to [2, p.23], there are two basic types of abstract:

- An informative abstract extracts everything relevant from the paper, such as primary research objectives addressed, methods employed in solving the problems, results obtained, and conclusions drawn. Such abstracts may serve as a highly aggregated substitute for the full paper.

- On the other hand, an indicative or descriptive abstract rather describes the content of the paper and may thus serve as an outline of what is presented in the paper. This kind of abstract cannot serve as a substitute for the full text.

A checklist defining relevant parts of an abstract is proposed in [10], whereas the author suggests each part to be packed into one sentence:
1. **Motivation**: Why do we care about the problem and the results?
2. **Problem statement**: What problem is the paper trying to solve and what is the scope of the work?
3. **Approach**: What was done to solve the problem?
4. **Results**: What is the answer to the problem?
5. **Conclusions**: What implications does the answer imply?

Also, there are some things that should not be included in an abstract, i.e., information and conclusions not stated in the paper, references to other literature, the exact title phrase, and illustrative elements such as tables and figures. Useful hints and comments on preparing and writing abstracts are given on various educational and professional web sites, such as in [10,11,12,13,14], to mention a few.

**Introduction.** The introduction serves the purpose of leading the reader from a general subject area to a particular field of research. Three phases of an introduction can be identified [8, p.141]:

1. Establish a territory:
   a) bring out the importance of the subject *and/or*
   b) make general statements about the subject *and/or*
   c) present an overview on current research on the subject.
2. Establish a niche:
   a) oppose an existing assumption *or*
   b) reveal a research gap *or*
   c) formulate a research question or problem *or*
   d) continue a tradition.
3. Occupy the niche:
   a) sketch the intent of the own work *and/or*
   b) outline important characteristics of the own work;
   c) outline important results;
   d) give a brief outlook on the structure of the paper.

In brief, the introduction should guide the reader to current state-of-the-art in the field and should allow the reader to understand the rest of the paper without referring to previous publications on the topic [2]. Even though the introduction is the first main section in a paper, many researchers write – or at least finish – it very late in the paper writing process, as at this point the paper structure is complete, the reporting has been done and conclusions have been drawn.

**Body.** The body of a paper reports on the actual research done to answer the research question or problem identified in the introduction. It should be written as if it were an unfolding discussion, each idea at a time [15, p.187]. Normally, the body comprises several subsections, whereas actual structure, organization, and content depends heavily on the type of paper, for example (adapted from [16]):
In empirical papers, the paper body describes the material and data used for the study, the methodologies applied to answer the research questions, and the results obtained. It is very important that the study is described in a way that makes it possible for peers to repeat or to reproduce it [2, p. 29].

Case study papers describe the application of existing methods, theory or tools. Crucial is the value of the reflections abstracted from the experience and their relevance to other designers or to researchers working on related methods, theories or tools.

Methodology papers describe a novel method which may be intended for use in research or practical settings (or both), but the paper should be clear about the intended audience.

Theory papers describe principles, concepts or models on which work in the field (empirical, experience, methodology) is based; authors of theoretical papers are expected to position their ideas within a broad context of related frameworks and theories. Important criteria are the originality or soundness of the analysis provided as well as the relevance of the theoretical content to practice and/or research in the field.

Generally, the body of a paper answers two questions, namely how was the research question addressed (materials, methods) and what was found (results) [1, 2, 7].

Discussion. Thinking in terms of the hourglass model (cf. Figure 1) the discussion and conclusion section is somehow the counterpart to the introduction since this section should lead the reader from narrow and/or very specific results to more general conclusions. Generally, this section includes (cf. [2, 8]):

- Presentation of background information as well as recapitulation of the research aims of the present study.
- Brief summary of the results, whereas the focus lies on discussing and not recapitulating the results.
- Comparison of results with previously published studies.
- Conclusions or hypotheses drawn from the results, with summary of evidence for each conclusion.
- Proposed follow-up research questions.

According to [2, p. 38-9], something that is often not adequately dealt with is a discussion about the significance of the results; a good place for doing so is the end of the discussion section.

References. Embedding the own work in related literature is one of the essential parts of research writing. There are citations of references in the text, as well as a list of cited references at the end of the paper. Different publishers require
different formats or styles of (a) citing in the paper text and (b) for listing references. The most commonly used referencing systems are (cf. [2]):

– **Name and Year System.** References are cited by their respective authors and the year of publication, e.g., “Chuck and Norris (2003) define ....” This system is very convenient for authors, as the citation does not have to be changed when adding or removing references from the list. The fact that sentences become hard to read when subsequently citing many references in one single parenthesis this way is one negative aspect for readers.

– **Alphabet-Number System.** This system lists the references in alphabetical order and cites them by their respective number in parentheses or (square) brackets, e.g., “As reported in [4], ....” This system is relatively convenient for readers, as it does not break the flow of words while reading a sentence with many citations. On the other hand, the author has to keep an eye on the references cited in the text as their numbers may change when the reference list is updated.

– **Citation Order System.** This system is similar to the alphabet-number system with one major difference: the reference list is not sorted alphabetically, but in the order of appearance (citation by number) in the text.

Variations of the referencing systems mentioned above are used in most of the common style guides. The overall most widely used styles include: American Psychological Association (APA) Style [17], Chicago Style [18], Council of Biology Editors (CBE) Style [19], Modern Language Association (MLA) Style [20,21], and others.

In Computer Science, the most widely used styles are variations of the number system, e.g. the style used by Springer Verlag in their Lecture Notes in Computer Science (LNCS) series including its subseries Lecture Notes in Artificial Intelligence (LNAI) and Lecture Notes in Bioinformatics (LNBI); the style used by the Association for Computing Machinery (ACM) Press; and the style guides issued by the Institute of Electrical and Electronics Engineers (IEEE). Springer, ACM and IEEE are among the most prestigious publishers in Computer Science, since they tend to have the highest quality requirements for published papers.

In general, the citation system used depends on the scientific discipline (e.g., psychologists mainly use APA style) as well as on the publisher (different publishers may require to use different referencing styles even in the same field). Authors have no other choice than adhering to the style required by publishers.

### 2.3 Writing for Publication

Papers must be written for a specific audience. This is particularly important for doctoral students trying to publish parts of their dissertations. The doctoral thesis has been written to “please” the supervisor; a scientific paper should be written for the editor and audience of the intended journal (cf. Section 3.2).
Thus the place of publication has to be selected prior to writing the paper [1, p.74], and chapters extracted from theses have to be reconsidered accordingly. Berry [9, p.105-8] notes that,

- “theses are written for supervisors who have to be convinced that one has really done work. No corners are cut. Space is no object […] Nothing of this applies to learned journals.”
- The professional public does not need to have everything spelled out, instead it “would like to learn something it did not already know, expressed in succinct prose, the points made in an agile and alert manner.”
- Two of the most important rules are: “target the journal” (i.e., its editor and audience) and “research the market” to get to know available and appropriate journals in the field.
- After having chosen the preferred journal for publication, all efforts should be directed to place the paper in that specific journal. It is helpful to study papers previously published in that journal with respect to paper organization, presentation, and writing style.

According to [6], several steps have to be taken to prepare a research paper for professional publication: First, the researchers have to ask themselves some preliminary questions to make sure that the studies are designed to answer precisely the research question under examination, that the experiments meet accepted standards, and that the process of keeping records of the research work is agreed-upon in the target community. Subsequently, the research work has to be assessed constantly in order to be able to decide whether the work is suitable for submission (speaking to colleagues and writing while work is in progress may turn out to be very helpful in this respect). A paper that “records significant experimental, theoretical or observational extensions of knowledge, or advances in the practical application of known principles” is worth publishing [6, p.3]. If it seems feasible to write such a paper it is time to select a place of publication.

Even if the work reported on is considered worth publishing, a major prerequisite for a paper to pass a rigorous peer review process (cf. Section 3.1) prior to publication is a clean, concise, and coherent writing style (cf. Section 2.4), as well as thorough organization and elaboration of the statement unfolding in the paper. To achieve this, many revisions may be necessary, as Davis’ [1] proposed plan for paper writing shows (Figure 2).

2.4 Writing Tips

There are many sets of writing tips available from different authors. Two sets of frequently stated tips or rules may be presented here. Davis [1, p.20] gives the following set of rules for technical and scientific writing:

- If it can be interpreted in more than one way, it’s wrong.
- Know your audience, know your subject, know your purpose.
- If you can’t find a reason to put a comma in, leave it out.
- Keep your writing clear, concise, and correct.
Fig. 2. Plan for preparing and writing a paper for publication.

- If it works, do it.

O’Connor [6, p.97] states the following principles for solving problems of writing style:

- Be simple and concise.
- Make sure the meaning of every word.
- Use verbs instead of abstract nouns.
- Break up noun clusters and 'stacked modifiers' (that is, strings of adjectives and nouns, with no clue about which modifies which).

Additionally, it should be mentioned that plagiarism (i.e., using the ideas of someone else without acknowledging the source of information [22]) is considered a serious offence in the scientific community and must therefore be avoided. Credit must be given when using one of the following in the own work [22]:

- another person’s idea, opinion, or theory;
- any facts, statistics, graphs, drawings - any pieces of information - that are not common knowledge;
- quotations of another person’s actual spoken or written words; or
- paraphrase of another person’s spoken or written words.

3 Publishing Scientific Papers

When the paper is written and the author and co-authors consider the paper to be worth publishing, the next step is to submit it for publication (e.g. to a conference, a journal, or a book editor). Particularly when the paper is submitted to a major journal it can be a very exhausting and sometimes dead-end way to
the paper finally appearing in a printed or online issue of the journal. Essentially there are two obstacles: the editors and the reviewers. The following sections cover the scientific community’s way of assuring scientific quality of published papers and the central stages of the editing, reviewing and publishing process.

3.1 Scientific Quality Management

Before going into detail with the process of publishing research papers, we will first introduce the central mechanism of scientific quality management, namely the peer review process. Since submitted papers are reviewed by peers of the authors in the respective field’s scientific community prior to publication, this process is referred to as peer review.

Peer review ensures publishable quality of research papers [2]; some argue that it should continue to do so in the future [23], while others are more skeptical. For most publication media the review process is quite similar, with some distinguishing differences. These concern mainly the roles of people involved and the outcome of the process. In this paper we focus on the review and publishing process in journals and conference proceedings. Common to serious peer reviewing practices is the fact that authors do not know the identity of their reviewers (blind review); depending on the editorial policy it is also common practice that reviewers should not know the name(s) of the author(s) of the paper (double-blind review).

3.2 Journal Publications

A journal paper reports on a finished piece of research or some significant achievement or discovery in a certain scientific field. Unlike at conferences it is uncommon that international journals accept reports on research in progress at an early stage.

Roles Involved. The main roles (except authors) involved in the journal editing and publishing process and their responsibilities (cf. [1,2,7,24,25]) are:

Referee. Each journal has an editorial board that includes a number of referees (also known as reviewers) who are responsible for reviewing and evaluating submitted papers. Having reviewed a paper, each referee independently advises the editor whether to accept or to reject the paper. This is usually done using a peer review form provided by the editor. However, final decisions are made by the editor. It is common practice that editors assign external referees to review submissions, for example when the referees of the editorial board do not have appropriate expertise to make constructive comments on a particular paper.

Editor. Also called Associate Editor. The most important function of an editor (can also be a group of persons) is to make the final decision whether to
accept or to reject a submitted paper. Indeed, the comments of the referees just serve as suggestions. Nevertheless, as the editor alone would not be able to review and comment on all submissions in detail, he usually relies on the advice of his editorial board, where he can choose from a pool of experts in diverse fields of the journal’s main topics. If there is consensus on acceptance or rejection, the editor’s life is fairly easy. It becomes difficult only when there is significant disagreement in the reviewer’s suggestions. In such a case the editor may make a final decision based on the own opinion or after consulting additional referees.

Managing Editor. Also called Editor-in-Chief. Many important journals with a large number of submissions and published papers have managing editors who are full-time employed. Their job is to relieve the editor from administrative and other day-to-day tasks in producing a journal [25], e.g., coping with publishers. Generally, the difference between editors and managing editors is that the review process (dealing with the author and referees) is mostly within the realm of the editor, whereas post-acceptance issues are taken care of by managing editors [2].

Publisher. Publishers print accepted papers in (periodical) journal issues. Most journals appear quarterly, but there are also journals which appear monthly or bi-monthly. After the publisher receives the final version of an accepted paper, it is prepared for printing. A preview of the typeset paper to be published is then sent to authors, who check the so-called “page proofs” for any errors that survived the editing and typesetting stages. This process is called proof reading; after the author is finished with proof reading the paper is finally ready to go to print.

Note that most journals offer the scientific community the possibility of publishing special issues. A special issue is typically proposed by senior experts who have extensive knowledge in the field and access to a broad network of expert peers in a specialized field of relevance to the journal’s theme. In such a case, the person who proposes the special issue takes over the role of the editor and may provide his/her own special issue editorial board. Often, special issues are edited by conference program chairs, who invite authors of conference papers with the highest peer review scores to submit extended versions to a special issue of a journal related to the conference theme.

The Process. Important activities in the publishing process of journal papers are depicted in the UML activity diagram in Figure 3. The vertical swimlanes separate the areas of responsibility of the main actors in the process.

The first step is to be taken by the author. After choosing an appropriate journal for submission, the author has to submit the paper according to the instructions issued by the journal editor. Most journals today offer the opportunity to submit the paper via the journal’s web site (in computer science, most
The process of publishing a paper in a journal.

Journals rely on electronic submission and reviewing systems. At this stage, it is very important that the author follows the instructions at the utmost accuracy, because papers submitted not compliant with (parts of) the instructions will most likely be rejected without taking into account the paper’s actual content. Some common authors’ mistakes at this stage include:

- Not adhering to the journal’s paper formatting and layout guidelines (e.g., using the wrong font size, line spacing, page numbering, referencing style, figure and table placement and visual guidelines, etc.).
- Exceeding maximum paper length (word count, page count).
- The paper’s thematic focus is not within the scope of the journal’s subject areas.

If any of the above is evident when the editor does the preliminary review, the paper will be directly rejected regardless of its scientific contribution and quality. On the other hand, if these conditions are met (“proper paper on a proper subject” [2, p.83]) the paper will be considered for publication. The submitting author is notified of either one of these decisions.
The next step the editor takes is to select referees for peer reviewing the paper. The number of referees involved in the review process may vary from journal to journal, but usually the editor forwards the paper to at least three referees who are experts in the topic that is covered by the paper. Besides making comments and suggestions for improvements to the authors, referees generally support the editor in making a decision by providing information on the following general issues, which may vary in importance among different journals (the following items have been compiled from [1,2,7,15,24,26,27]):

– Thematic relevance to the journal’s scope of subjects.
– Significance of contribution (does the paper contribute new findings to the body of knowledge in the field?)
– Originality of the work (is similar research already published elsewhere?)
– Coverage of relevant literature (did the authors report related work?)

More focusing on the writing style of the paper, the following aspects are relevant to reviewers and influence their recommended decision:

– Clarity of writing: readability, organization, conciseness, and technical quality of the paper.
– Appropriate title and abstract.
– Appropriate use of well-designed (cf. [2, p.48-67]) figures and tables.
– Sound conclusion and discussion.
– Length of the paper relative to its usefulness.

Also increasing the likelihood of acceptance are the following characteristics of submitted papers [24]:

– Strong reputation of the author.
– Successful test of the proposed theory.
– Different content than usually published in the journal.

When the assigned referees have finished reviewing and commenting the paper, the editor collects their recommendations and makes a decision which is sent to the corresponding author of the paper (usually the first author). Generally, the notification by the editor will carry one of the following messages [6,2,7]:

“Accept as is” The editor accepts the paper without modifications. The paper will be published in one of the journal’s forthcoming issues (for details on the printing process and on how to deal with printers refer to [6,2,7]). This outcome is very unlikely upon initial submission. Only in very rare cases the paper will be accepted right away. It is more likely that the paper has to be revised.

“Accept conditionally” The editor requests revision of certain parts of the paper. The author has to modify the paper according to the suggestions and comments of the reviewers and the editor (i.e., conditions for acceptance) in order to be further considered for publication. After revising the paper accordingly, the author may resubmit the paper to the journal. Resubmission
typically requires authors to enclose a letter to the editor where they must present and discuss in detail how they addressed the reviewer and editorial comments in their revised version. After receiving the revised version the editor typically forwards the paper to the same referees who conditionally accepted the initial submission.

“Reject” The editor does not see any chance for the paper to be published in the journal. Unfortunately, this is by far the most frequent outcome of the the review process of a journal. The editor usually encloses detailed reasons for rejection provided by the referees, which should be read carefully by the author. Most likely, one or more referees
– had serious objections to one of the preconditions relevant to reviewers mentioned above;
– found the paper out of the journal’s scope;
– found fundamental flaws in the paper’s argument, data, etc.;
– did not see any improvement with regard to previous submissions of the same paper.

If modification is required and the author feels unable to comply with the editors recommendations, the author may either (politely) tell the editor about the disagreement, or alternatively the paper may be sent to another appropriate journal in the field. The same applies to rejected papers.

3.3 Conference Publications

The review system at conferences is quite similar to the journal paper review system. Nevertheless, there are some differences in the publishing process, which will be explained in this section. Generally, papers published in conference proceedings do not have a reputation as high as journal papers. This is particularly true for the natural and social sciences. However, in computer science there are numerous conferences with at least journal-equivalent status [28].

While the vast majority of conferences are part of a series taking place annually, some are held bi-annualy. Several months before the conference date, the conference chair (who can be considered the counterpart to the editor of a journal) issues a Call for Papers (simply referred to as “CFP” in both written and oral communications) to invite authors to submit papers to be published in the conference proceedings and to be presented at the conference venue. The CFP, which can normally be downloaded from the conference web site, comprises the following information:

Title and Venue: For example: 33rd International Conference on Very Large Data Bases (VLDB 2007). Vienna, Austria.

General information: This section can be found on most CFPs describing the scope of the conference, i.e., putting the main topic of the conference in the light of current developments.
**Topics of interest:** Encloses a list of topics of particular interest for the respective conference’s subject area.

**Submission guidelines:** Most CFPs comprise a section where general guidelines for submissions are communicated to the authors. Additionally, if the conference proceedings are published by a well-established publisher, the publisher is also mentioned on the CFP.

**Deadlines:** This section is very important, as there are a number of deadlines to be necessarily met by authors:

- *Submission deadline:* This is the deadline for submitting the paper proposal, which might either require submission of a full paper or an (extended) abstract thereof. There are also some conferences that initially require an extended abstract for preselection and then a full paper submission. Most submission deadlines are firm, whereas failure to meet the deadline results irreversibly in not being considered for presentation and/or publication. For conferences taking place overseas the time change has to be taken into account when submitting papers close to the submission deadline.

- *Notification date:* This specifies the date when the author is notified of acceptance or rejection. The notification date given is often not very accurate, as the *program committee* cannot anticipate the number of submissions, to mention one reason; also the peer reviewers often fail to submit their reviews on time. Thus the review process may take longer than expected. Conferences that use peer review to decide whether a submission should be accepted or not, emit one of two possible messages to each submitting author at the notification date:
  - *Accept:* The paper has been accepted and will be published in the conference proceedings. However, reviewers may have suggested minor modifications to be incorporated in the published paper. Usually, acceptance letters (or mails) sent by organizers include the invitation (typically the *obligation*) to orally present the paper at the conference. This is a very good opportunity to receive immediate feedback in discussions with peers after the presentation.
  - *Reject:* The paper was rejected and will not be published in the conference proceedings. Most reviewers supply valuable comments to authors on how to improve the rejected paper. Unlike journals, most conferences do not consider the option of asking authors for revision. Papers are normally either accepted or rejected right away.

Depending on the importance of the conference and the response to the call for papers, the acceptance rate varies significantly among different conferences. The top conferences in Computer Science have a typical acceptance rate of less than 20%. Most other conferences with a good, selective reputation accept roughly one quarter to one third of the submissions (cf. also [29][30]).
Camera-ready paper deadline: In case of acceptance, this is the submission deadline for “camera-ready” papers, i.e., final versions to be included in the conference proceedings. At some conferences, failure to meet this deadline may result in not being included in the conference proceedings. Anyway, program committees announce their policy of dealing with deadline exceeding.

As with journals, it is vital to meet all deadlines and to comply with all guidelines (such as paper formatting instructions). See Figure 4 for an example of the “important dates” section in the website of the International Conference on Very Large Data Bases 2007.

![Important Dates](http://vldb2007.org)

Fig. 4. Deadlines of VLDB 2007 conference.

Other information: Other information of interest, e.g., call for workshops to be co-located with the conference, tutorials, panel discussion proposals, demonstrations, and information on sponsors, publisher, invited speakers, etc.

4 Concluding Remarks

The objective of this paper was to give an introductory report on basic issues of writing and organizing scientific papers as well as on the process of getting a
research paper published in a journal or in conference proceedings. It should be useful for beginners (e.g., PhD students) seeking to join the publishing scientific community. As the whole of this subject area is too complex and extensive to be discussed in detail within the scope of this brief paper, not all aspects of writing and publishing scientific papers have been considered with appropriate attention. However, this paper includes a list of useful references to printed and online sources for readers interested in details, whereas I highly recommend two works of remarkable quality: Robert Day’s “How to Write and Publish a Scientific Paper” [2], and Meave O’Connor’s “Writing Successfully in Science” [6] should answer most of the questions arising on the topic.

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