



An International Journal on
Computer Vision and Image Analysis

<http://elcvia.cvc.uab.es>

Presentation of ELCVIA

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Introduction

ELCVIA is an international electronic journal on research and applications in Computer Vision and Image Analysis, and includes internationally recognized experts on its Boards. This journal has the following aims:

- To be a dynamic and fast means of communication among researchers both in the review and in the publication of articles.
- To take advantage of the Internet's multimedia capacity.
- To be a quality publication, and therefore all articles will be thoroughly reviewed.
- To include ELCVIA in the Journal Citation Index.

The ELCVIA project started at the ICPR'2000 conference in Barcelona. A group of prestigious international researchers expressed their interest in creating an electronic journal, based on new technologies, to be their communication medium. This e-journal would assist researchers in keeping up to date with new advances in Computer Vision and Image Analysis. At the same time the resulting journal would have all the quality and rigour that scientific articles require.

Why an electronic journal free of paper constrictions?

The internet has evolved as a communication medium, and many paper-based journals have adopted Internet as an alternative means of publication. This medium has several advantages over paper-based ones, such as: more compact storage which does not deteriorate, easy duplication without losses, the possibility of printing only the articles you consider essential, faster accessibility and more interactive and dynamic ways of publishing ideas.

We also believe internet-based services are restricted if they depend on a paper format. They only offer the possibility of obtaining an electronic copy of the same article in paper format, and do not take advantage of the Internet's multimedia capabilities. Furthermore, an electronic journal is the best support for publishing scientific results in Computer Vision and Image Analysis.

ELCVIA is an electronic journal that allows authors to use all of the Internet's capabilities to publish their scientific research. The main services ELCVIA provides are:

- Attachment of multimedia files with the articles
 - Executable programs, scripts etc...
 - Animations (AVI and MPEG files).
 - Colour Images(GIF, TIFF, JPEG).
 - Dynamic presentations (slides, posters, etc.).
 - 3D models.
 - Links to other references specified by the author.
- Flexible size of articles and surveys.

- Faster ways to publish ideas without decreasing quality. Papers are published at the time of acceptance, without waiting for the publication of the completed issue.

ELCVIA's web site also offers the following services:

- A search engine to make article tracking easier through keywords.
- Personalized e-mail to receive articles of interest, specified by keywords, authors, affiliation, etc.
- Personalized mail to notify the publication of new issues.
- Links to conferences.

ELCVIA web site content availability:

- Free access to abstracts.
- Free access to full articles.

Scope & Contents

The journal encourages research groups around the world to send their contributions on computational aspects of Computer Vision and Image Analysis and applications.

Authors can send two types of contributions:

- **SURVEY:** A contribution by invitation of the Editors in Chief or Advisory Board editors, of 12-20 pages (recommended).
- **ARTICLE:** A regular contribution of 8-12 pages (recommended) supervised by an Associate Editor and reviewed by several reviewers.
- **SPECIAL ISSUE ARTICLE:** A special contribution of 8-12 pages reviewed by the Invited Editor of the special issue and external reviewers, to be accepted for a special issue in one of the topics of the journal.

The different fields covered by the journal (but not limited to these) are:

- **Computer Vision:** Sensor systems; Features and Image Descriptors; Image Modelling; Scene Understanding; Active Vision; Motion, Tracking, Video Analysis; Object Description and Recognition; Robotics and Visual Navigation; 3D and Stereo.
- **Pattern Recognition:** Statistical Pattern Recognition; Syntactic/Structural Pattern Recognition; Machine Learning and Data Mining; Symbolic Learning; Feature Analysis; Classification and Clustering; Support Vector Machines and kernels; Invariances in Recognition; Image Analysis and Processing.
- **Image and Video Processing:** Coding and compression; Colour and Texture; Shape extraction and representation; Separation and Segmentation; Learning; Registration; Statistical and non linear methods.
- **Multimodal Interaction and Multimedia:** Multimedia analysis; Indexing, retrieval; Multimedia infrastructure; Augmented Reality; Document Analysis; Character and Text Recognition; Handwriting Recognition; Graphics and

Drawings Recognition; Document Layout Analysis; Document Understanding.

- **Document Analysis:** Character and Text Recognition; Handwriting Recognition; Graphics and Drawings Recognition; Document Layout Analysis; Document Understanding.
- **Biometrics:** Biometric Technologies; Multi-modal biometrics; Gait analysis; Face and Gesture; Recognition of finger and other body parts.
- **Medical Image Analysis:** Multimodal imaging (MRI, NMR, PET,...); Medical Diagnosis; Image-guided surgery; Interaction and Visualization.
- **Applications:** Machine Vision, Video Surveillance, Cultural Heritage, Remote Sensing, etc

ELCVIA will present each article as a PDF file, as well as the multimedia files (AVI, MPEG, GIF, etc) related to the article.

Periodicity

- Each article will be published on the web just after acceptance, and this is considered the publication date of the article.
- Articles will be grouped as issues.
- The aim is to publish from 6 to 12 issues per year.
- Subscribers can select/decide on a set of keywords and the system can automatically send an e-mail with the reference.

In contrast to the usual policy of publication dates in journals, the date considered as the publication of the article is the date on which the article appears on the web, which can be different from the date of presentation of the issue containing the article.

Boards

ELCVIA seeks to include on its Boards recognized international experts in Computer Vision and Image Analysis.

The ELCVIA Board will be a 5 level board:

- **Editors in Chief:** Responsible for strategic decisions.
- **Advisory Board:** Consultant committee without executive tasks. Together with the Editors in Chief, they will be responsible for the quality of the journal.
- **Editorial Assistants:** Daily co-ordinators of the journal.
- **Associate Editors:** Accepts or rejects the article. One of the members receives the article to be reviewed and forwards it to two reviewers.
- **Reviewers:** Proposed by an Associate Editor for the article. A list of reviewers will appear in ELCVIA.

Submission and Review

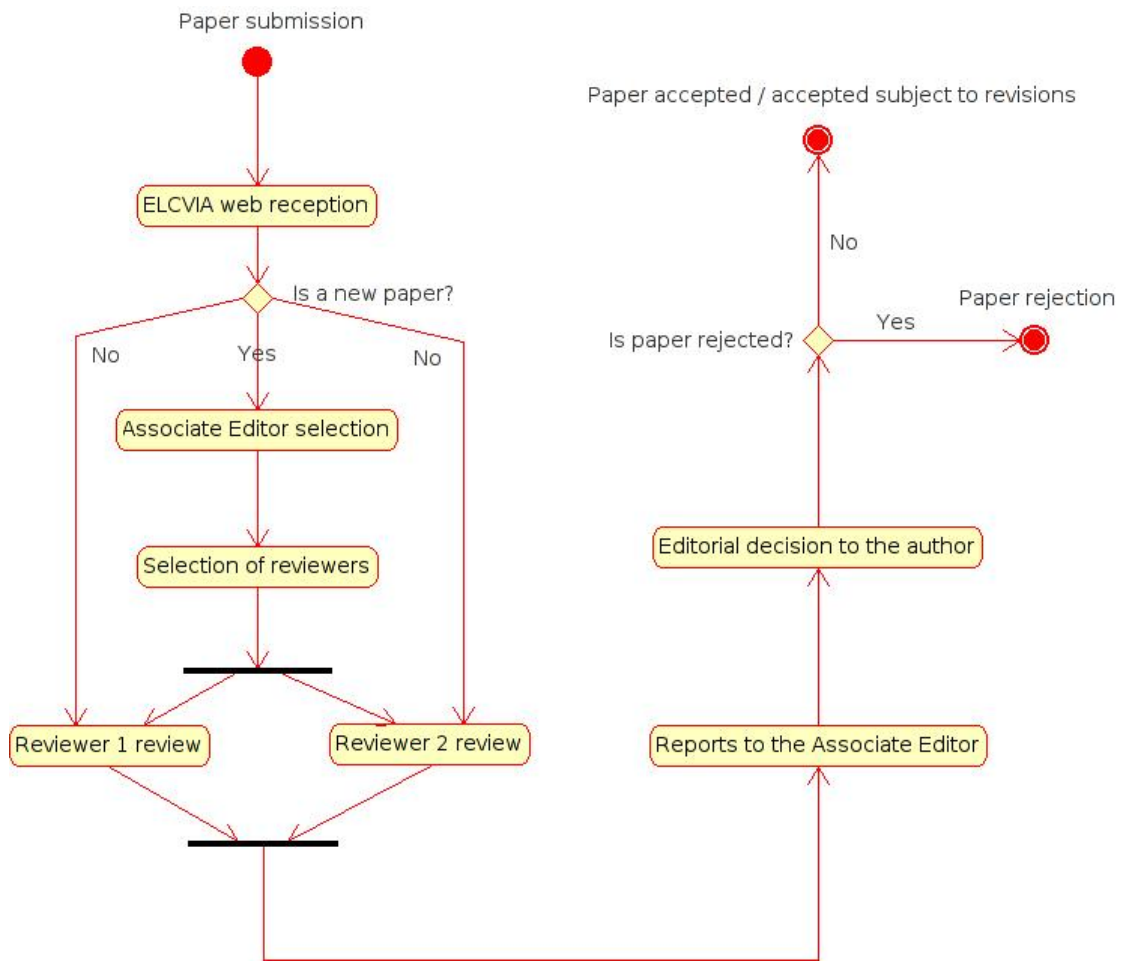
- a) From the web-site <http://elcvia.cvc.uab.es>, authors can obtain word or latex templates to generate the article with the ELCVIA format.
- b) Authors submit the article only in pdf format, generated from templates, together with any multimedia files.
- c) The editorial assistants select an Associate Editor, expert in the subject of the paper, who will be responsible for the article review.
- d) The Associate Editor selects at least two referees. One of them may be the Associate Editor. ELCVIA will contact the reviewers directly and will control the scheduling of the process.
- e) When the reviews are reported, ELCVIA advises the Associate Editor responsible for the review, who then will give the final answer to the author: Accepted, conditional acceptance with minor or major revisions, or rejected.
- f) When major revisions are required, a new review of the article is necessary.
- g) Once the article is accepted, the author may send one compressed file containing the following files:
 - Pdf
 - Latex or doc
 - In latex case, all the figures
 - Multimedia files
 - Readme.txt explaining the contents of the compressed file.
- h) The accepted article will be published in ELCVIA upon the recommendation of the Associate Editor. For each published paper, the name of the Associate Editor who accepted it will be published. In the Journal, it will appear as "Recommended for publication by <name of the Associate Editor>".

The entire process of submissions and reviews is done via the ELCVIA web-site.

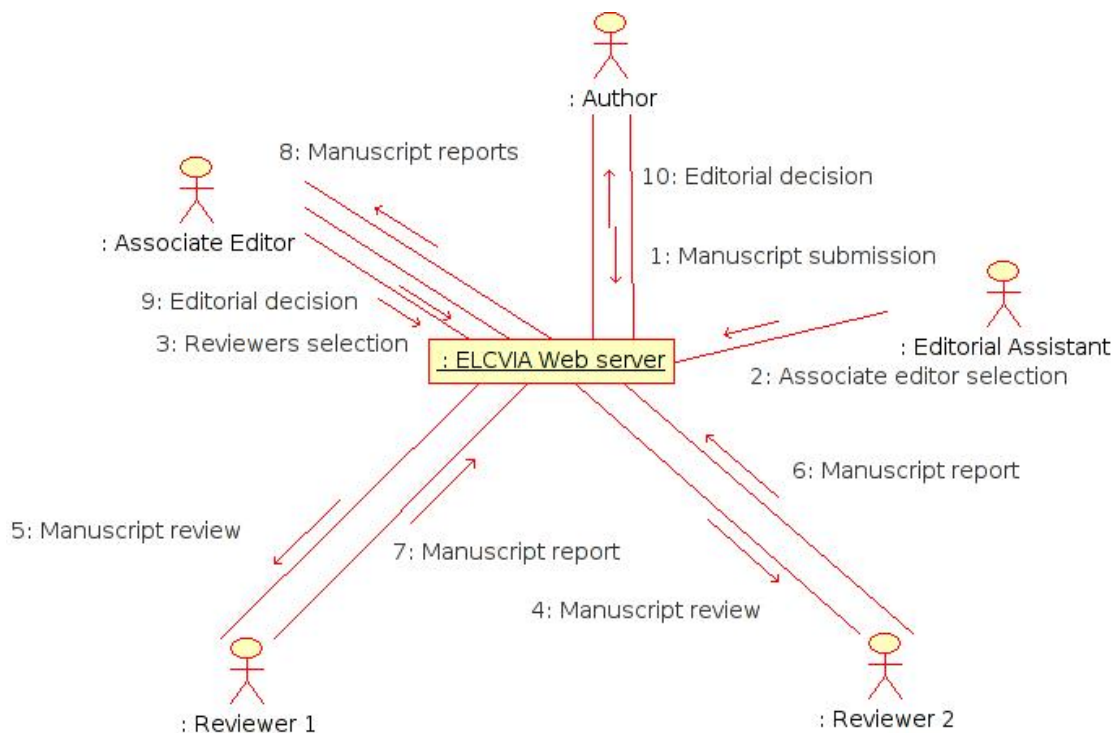
It is intended that the first reply regarding the acceptance of the article will be given to the author in around 1 month.

ELCVIA controls the deadlines of the paper reviews.

Activity diagram of the paper submission and review process.



Collaboration diagram of the paper submission and review process.



Special Issues

- Special Issues may be proposed and will be accepted by editors in chief:
 - By topic.
 - By conference or workshop (selection of the best articles).
- Articles of a special issue will be reviewed.
- Each Special issue will have Special Issue Editors assigned to supervise the revision of the Special Issue articles.
- A Special Issue will have a deadline for receiving author contributions.
- The revision process will have a deadline.
- Papers will be published just after acceptance.
- The special issue will be closed when all papers are reviewed.