Paper Submission

Authors are encouraged to submit high-quality, original work that has neither appeared in, nor is under consideration by, other journals. All open submissions will be peer reviewed subject to the standards of the journal. Manuscripts based on previously published conference papers must be extended substantially.

Springer offers authors, editors and reviewers of the *International Journal of Computer Vision* a web-enabled online manuscript submission and review system. Our online system offers authors the ability to track the review process of their manuscript.

Manuscripts should be submitted to: http://VISI.edmgr.com. This online system offers easy and straightforward log-in and submission procedures, and supports a wide range of submission file formats.

Important Dates

- Paper submission deadline: March 31, 2016
- Final manuscript due: September 30, 2016

Special Issue Call for Papers

Combined Image and Language Understanding

Guest Editors

Margaret Mitchell, *Microsoft Research*, Redmond, WA, memitc@microsoft.com
John Platt, *Google Research*, Seattle, WA, platt@google.com
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Aims and Scope

Many core tasks in artificial intelligence require reasoning about both visual data and natural language. The past few years have seen an increase in research tying together vision and language, with recent work exploring methods for captioning images, telling stories about static images and videos, and grounding natural-language instructions in visual input. These methods have applications in many important areas, such as text-based image and video retrieval and summarization, robotics, automatic description for the blind, and, more broadly, natural human-computer interaction.

This special issue of *IJCV* welcomes submissions developing novel techniques for image and language understanding, novel applications combining image and language processing, novel evaluation techniques, as well as theoretical contributions that are relevant to the connection between natural language and computer vision.

Topics of Interest

- **Image and video captioning**: neural network methods; encoder-decoder methods; methods that use advanced NLP; template/grammar methods; etc.
- **Visual question answering**: answering natural language questions; dialogue models grounded in vision; etc.
- **Grounding language and vision**: providing instructions based on visual input; learning visual categories from natural language text; etc.
- **Vision helping language**: word sense disambiguation; co-reference resolution; etc.
- **Language helping vision**: language model transfer; ontologies; knowledge bases; common sense/pragmatics;
- **Datasets and applications**: joint image and language datasets; evaluation metrics; interesting applications; etc.

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There is no page limit and we welcome short papers as well.