Manuscript Specifications

- Manuscripts should be at least four pages in length. The manuscript must contain all elements of a full-length technical manuscript (abstract, intro, conclusion, references, etc.)
- Single-space all text in one column, allowing extra space between paragraphs.
- All text—including footnotes and author information—and illustrations must appear within a 6.75x8.75 in. (17.15 x 22.23 cm) area.
  - If you use a U.S.-standard page (8.5 x 11 in./21.59 x 27.94 cm), set margins to .875 in. (2.22 cm) left and right, 1.0 in. (2.54 cm) top and 1.25 in. (3.17 cm) bottom.
  - If you use an A4 page, set margins to 1.925 cm left and right, 2.54 cm top, and 4.94 cm bottom.
- Use Times Roman or equivalent font for all text. Use boldface or italic for emphasis only. The proper fonts (all Times Roman) for various elements are as described and shown below along with more detail on how to handle elements of your paper.

**Article title** is 16 pt bold. Center the paper title at the top of the page. Capitalize only the first word, proper nouns, and acronyms. Keep titles brief and descriptive. Avoid starting with articles or prepositions, e.g., "The study of ...","On the ...." Spell out acronyms unless they are widely known.

**Author Names and Affiliations** are 12 pt and centered. Capitalize proper nouns. Leave extra space between authors and affiliations/address. Omit titles or degrees such as Dr., Prof., Ph.D., etc. Avoid acronyms that are not internationally known.

**ABSTRACT** is on a line by itself, all capitals, centered, 11-point type and boldfaced, two lines below author affiliation(s). Start the text of the abstract on a separate line. The text is 10 pt with standard capitalization. Limit the abstract to 250 words.

**Keyword list** is an untitled list of up to 10 keywords of your choice in 10 pt with standard capitalization. Do not put a heading on this list of keywords. Insert it between the abstract and the body of the paper. This list will ensure that your paper is indexed appropriately.

**SECTION HEADINGS** are 11 pt bold capital letters throughout the words centered on separate lines. Number sections sequentially (i.e., 1, 2, 3,...).

**Subsection headings** are 10 pt bold with capitalization of the first letter of the first word and proper names only. Type on a separate line flush with the left margin. Number subsections according to the following example: Sec. 3.1 is the first subsection of Sec. 3; Sec. 3.2.1 is a subsection of Sec. 3.2.
Denote reference citations within the text of your paper by means of a superscript number. List references at the end of the paper in numerical order, and enclose the reference number in square brackets. Include the following information (as applicable).

- **For a book:** authors (last name first, then initials), [book title], publisher, city, page or chapter numbers (year).


- **For a journal paper:** authors (last name first, then initials), "paper title" (in quotes), journal abbreviation, volume number(issue), page numbers (year).


- **For a proceedings paper:** authors (last name first, then initials), "paper title" (in quotes), proceedings volume name and/or number, page numbers (year).


**Transfer of Copyright**
A Statement of Transfer of Copyright must be signed and returned to SPIE for publication in the Proceedings of SPIE. The intent of this agreement is to protect the interests of both SPIE and authors/employers, and to specify reasonable rights for both parties related to publication and reuse of the material. Complete details of the agreement are outlined on the form. [http://spie.org/x14109.xml](http://spie.org/x14109.xml)

**HOW TO SUBMIT YOUR COPYRIGHT FORM**
1. Log on to http://spie.org/myaccount
2. Log into your account—navigate to your paper.
3. Click on the link ‘submit your copyright form.’
4. Click on 'Submit Copyright form' button to finish.