



JTMAE

The Journal of
Technology,
Management, and
Applied Engineering

JTMAE Article Vetting Criteria* - Expanded for Authors

Revised: 01/30/08

This “expanded” version of the vetting criteria provide more detail and may be more helpful to potential authors in preparing papers for consideration by the JTMAE for review.

**Note: All vetting criteria must be satisfied to qualify an article submission for review. The vetting criteria do not guarantee acceptance, however. Once an article submission has been determined to meet the vetting criteria above, it will then be sent for review.*

Authority: According to the JTMAE Board by-laws, “*The JTMAE Chief Editor, in cooperation with the associate and assistant editors, shall determine whether a submitted article is of appropriate content and general format.*” [Section III, C.] Further, “*Submitted manuscripts are judged for potential publication by the JTMAE Editorial Panel. The Editorial Panel bases their decision on the aim and scope of the manuscript, i.e., the extent the manuscript focuses on research and industrial technology.*” [Section IV, C.]

Refereed Submissions: The following criteria, in question format, are suggested for potential authors to determine whether an article is of appropriate content and format to be reviewed for publication in the JTMAE:

1. **What is the category of investigation of the article submission?** The categories of investigation from the JTMAE Review Criteria are:

A. Applied papers:

1) Significance of the problem

- Does the article focus on the development and application of applied innovative methodology (technical or managerial) that improves a process or product?
- Usefulness: How useful is this material to the Industrial Technology profession? For example, would you encourage a colleague or associate to read this article?

2) Scholarship and objectivity

- Is the applied methodology described in the article well developed, clearly articulated, and appropriate given the expressed problem and literature support?
- Are the conclusions logically consistent and do they logically follow from the problem statement, the literature, the applied investigative methodology, and the findings?
- Is the content and format of the article of sufficient quality for the JTMAE?
- Does the article conform to the organization, style, and format guidelines set forth by the journal (APA)?

3) Clarity of presentation

- Does the article clearly state and explain the problem or issue that is to be addressed? [statement of problem should be directly linked with the subsequent review of the literature]
- Is the article organized in accordance with currently accepted formats for reporting applied practitioner type papers? In particular, is there a logical flow to the ideas presented therein?

4) *Insight and perspective*

- Does the paper take an original approach?
- Does the author(s) demonstrate original insights into the topic or material discussed in the paper?
- Do the conclusions, implications, or outcomes of the paper make an original contribution in either the application or the solution itself to the field?
- Does the paper acknowledge its own limitations?

B. Research papers:

1) *Significance of the problem*

- Was the research problem clearly defined and explained?
- Was the application of the research relevant to the industrial technology field?
- How useful is this material to the Industrial Technology profession? For example, would you encourage a colleague or associate to read this article?

2) *Scholarship and objectivity*

- Did the literature review provide logical and clear links with the methods and analyses that followed?
- Were the research methods and procedures clearly explained?
- Did you agree with the choice of testing and analysis? (Where might you have taken a different approach to improve the testing and analysis?)
- If statistical analyses utilized, did you agree with the choice(s) of statistical analyses methods?
- Is the content and format of the article of sufficient quality for the JTMAE?

3) *Clarity of presentation*

- Were the results of the research clearly presented and explained?
- Were the conclusions logically related to the overall methodology?
- How well did the author(s) relate their conclusions to industrial technology/educational practice or practical applications?

4) *Insight and perspective*

- Does the paper take an original approach?
- Does the author(s) demonstrate original insights into the topic or material discussed in the paper?
- Do the conclusions, implications, or outcomes of the paper make an original contribution in either the application or the solution itself to the field?
- Does the paper acknowledge its own limitations?

C. Pedagogical papers:

1) *Significance of the problem*

- Does the article focus on the study, development, application, and evaluation of pedagogy for education and industry (training)?
- How useful is this material to the Industrial Technology profession? For example, would you encourage a colleague or associate to read this article?

2) *Scholarship and objectivity*

- Is the pedagogy described in the article well developed, clearly articulated, and appropriate given the expressed problem and literature support? The pedagogy description should be clear enough that others who may wish to adopt the pedagogy may do so.
- Are the conclusions logically consistent and do they logically follow from the problem statement, the literature, the pedagogy, and the analysis?
- Is the content and format of the article of sufficient quality for the JTMAE?
- Does the article conform to the organization, style, and format guidelines set forth by the journal (APA)?

3) *Clarity of presentation*

- Does the article clearly state and explain the problem or issue that is to be addressed? [statement of problem should be directly linked with the subsequent review of the literature]
- Is the article organized in accordance with currently accepted formats for reporting pedagogical methods? In particular, is there a logical flow to the ideas presented therein?

4) *Insight and perspective*

- Does the paper take an original approach?
- Does the author(s) demonstrate original insights into the topic or material discussed in the paper?
- Do the conclusions/implications/outcomes make an original contribution to the field?
- Does the paper acknowledge its own limitations?
- Are future directions for the field stemming from the study indicated?

D. Perspective (meta-analysis) papers (e.g., sound literature reviews to update the state-of-the-art):

1) *Significance of the problem*

- Is the topic or issue significant to the field?
- Does the treatment of the material demonstrate this significance?
- How useful is this material to the Industrial Technology profession? For example, would you encourage a colleague or associate to read this article?

2) *Scholarship and objectivity*

- Are all relevant sources and information reviewed?
- Are sources and materials used accurately and effectively?
- Are interpretations of theoretical perspectives and findings appropriately critical, accurate, and cogent?
- Are investigative methods, data analyses and procedures appropriate and accurate?

3) *Clarity of presentation*

- Are the issues, points of view, findings and conclusions presented clearly?
- Is the overall organization of the paper appropriate and effective?
- Is the paper well-written and readable?

4) *Insight and perspective*

- Does the paper take an original approach?
- Does the author(s) demonstrate original insights into the topic or material discussed?
- Do the conclusions/implications/outcomes make an original contribution to the field?
- Does the paper acknowledge its own limitations?
- Are future directions for the field stemming from the study indicated?

2. Does the article contain the basic elements for the selected category of investigation, as listed in the JTMAE review criteria? (*Incorporate this as a check-off list in the area above?*)
3. Does the article follow the APA/JTMAE recommended format?
4. Is the article written at an appropriate level [i.e., readability and quality] for a professional journal?
5. Do the author(s), either explicitly or implicitly, make the case that the **submitted article "fits" the general interest of the JTMAE?**

Non-Refereed (NR) Submissions:

The JTMAE publishes non-refereed (NR) submissions related to industrial technology *and technology management topics*. The aim and scope of NR submissions are broader than that for JTMAE refereed articles. The NR focuses on non-research pieces of importance to the readership, *or articles that have some research basis but do not meet the criteria for review as a peer-refereed article*. Appropriate content includes book reviews, opinion pieces, curricula, accreditation and certification information, and other topics of interest. An article not accepted for publication after peer-review may be, at the discretion of the Editorial Panel, considered for publication as a non-reviewed article.