



# IJTEC Reviewer's Guide: Manuscript Evaluation Checklist

**Purpose:** This guide is designed to help reviewers provide consistent, constructive, and ethically sound evaluations of manuscripts submitted to the *International Journal of Tropical Engineering and Computing (IJTEC)*. It emphasises rigour, reproducibility, clarity, and emerging standards such as AI tool transparency.

## A. Section-by-Section Evaluation Table

Each section includes evaluation points, a weighted score (0–5), and structured reviewer prompts. Use the weights to inform your overall recommendation.

S/n	Section	What to Check	Best Practice Standard	Red Flags / Required Action	Reviewer Notes (Guided Prompts)	Yes/No	Score (0–5)
1	<b>Title &amp; Author Details</b>	Clarity, specificity, author identity	✓ ≤18 words, technical focus ✓ Full author names ✓ ORCID, institutional emails, country code phone numbers	⚠ Vague, generic, or misleading title ⚠ Missing ORCID or unclear affiliation ● Reject if authorship is unverifiable	<i>Does the title reflect the content? Are all authors clearly identified with institutional credentials?</i>		/5
2	<b>Abstract (Structured, 150–250 words)</b>	IMRaD format; 4–5 keywords	✓ Background, method, results, impact ✓ Quantified outcomes ✓ 4–5 relevant keywords	⚠ Missing structure or metrics ⚠ Unclear objectives ● Reject if incoherent or exceeding word count	<i>Is the abstract self-contained and informative? Are the key outcomes and methods evident?</i>		/5
3	<b>Graphical Abstract</b>	Technical clarity and visual summary	✓ ≥300 dpi, minimal text ✓ Reflects core	⚠ Low resolution, overly text-based ⚠ Visually	<i>Does the visual aid add clarity? Is it technically accurate and high-quality?</i>		/5

			result visually ✓ Placed before Introduction	ambiguous ● Request replacement or remove			
4	<b>Introduction</b>	Gap, motivation, novelty, and roadmap	✓ Recent references (2020–2024) ✓ Novelty clearly articulated ✓ Outline of structure	⚠ Generic claims ⚠ Weak literature grounding ● Revise if lacks motivation or roadmap	<i>Is the research gap clearly identified? Does the intro justify the study?</i>		/5
5	<b>Methods</b>	Data integrity, model setup, reproducibility	✓ FAIR data principles ✓ Full preprocessing steps ✓ Hyperparameters + 5-fold CV or equivalent validation ✓ p-values < 0.05 when applicable	⚠ Missing critical steps/code ⚠ No baseline comparisons ● Request methods clarification or data/code deposit	<i>Can another researcher replicate the study based on this section?</i>		/5
6	<b>Results &amp; Discussion</b>	Visuals, quantitative findings, critical insight	✓ Statistical metrics: CI, p-values, AUC ✓ Visual aids with labels/error bars ✓ Limitations and scope discussed	⚠ Lack of numerical evidence ⚠ Results unlinked from literature ● Major revision for missing or flawed analytics	<i>Are results statistically and contextually sound? Are limits acknowledged?</i>		/5
7	<b>Conclusion</b>	Real-world application, policy/scientific impact	✓ No new data ✓ Summary aligns with findings ✓ Quantifiable impact (e.g., savings, efficiency)	⚠ Unsupported claims ⚠ Overly vague or philosophical ● Refocus or condense	<i>Does the conclusion clearly summarize and contextualize the study's implications?</i>		/5
8	<b>Ethics &amp; Reproducibility</b>	AI/editorial tools,	✓ IRB/GDPR/ethics noted	⚠ Omission of ethical/compliance	<i>Are ethical standards upheld? Can</i>		/5

		IRB/GDPR, data/code access	✓ GitHub, Zenodo, NDA or public links ✓ Disclosure of AI tools (e.g., ChatGPT)	details ⚠ Undisclosed automated contributions ● Escalate if suspicious	reviewers/auditors access supporting data/code?		
9	<b>References</b>	Recency, formatting, validity	✓ ≥50% from last 5 years ✓ APA 7 or IEEE compliant ✓ DOIs or active links for all sources	⚠ Predatory/outdated references ⚠ Inconsistent format ● Major format or credibility revision	<i>Are sources credible, recent, and properly formatted?</i>		/5
10	<b>Declarations</b>	Authorship integrity, conflicts of interest (COI), AI usage	✓ COI and AI tool use declared ✓ Author contributions and originality affirmed	⚠ Missing statements ⚠ Undeclared third-party or automated content ● Request disclosure or clarification	<i>Is authorship clearly and ethically presented?</i>		/5

## B. Scoring & Decision Table

Use the total score (max = 50) and section-specific concerns to guide your recommendation.

### Score Interpretation

- 43–50** Excellent in clarity, reproducibility, ethics, and technical novelty
- 33–42** Scientifically valid but requires improvement in clarity, structure, or reproducibility
- 20–32** Lacks rigor, novelty, or ethical completeness
- <20** Serious flaws in concept, ethics, or validation

### Action

- ✓ Accept (minor or no revision)
- 🔄 Major Revision
- ✗ Reject or recommend resubmission
- ✗ Reject outright

## C. Reviewer Details

Please complete:

- **Reviewer Name:** \_\_\_\_\_
- **Affiliation:** \_\_\_\_\_
- **Email:** \_\_\_\_\_
- **Date:** \_\_\_\_\_
- **Manuscript Title:** \_\_\_\_\_
- **Manuscript ID (if applicable):** \_\_\_\_\_

## D. Recommendation

(✓ one)

- Accept
- Minor Revision
- Major Revision
- Reject

## E. Comments to Editor (Confidential)

*Highlight any ethical concerns, conflict of interest, or doubts about authorship/integrity.*

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## F. Comments to Authors

*Be constructive and specific. Comment on novelty, reproducibility, ethical transparency, and how the manuscript could be improved.*

[illegible]

## Optional Addenda

- For **interdisciplinary papers**, reviewers may adapt section weighting and apply qualitative judgment.
- For **early-stage concepts or proof-of-principle work**, sections 5–7 may be more lenient if scientific reasoning is sound and well-motivated.