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Weld Defect Detection Using Artificial Neural Network (Font 14, Georgia, Multiple 1.1 line spacing)

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| Keywords:  Artificial Neural Network  Arc Weld  Ultrasonic Test  Weld Defect Detection  Non-Destructive Test |  | | ABSTRACT |
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| Correspondence e-mail:  saipulneural@gmail.com |
|  | Submission: Abstract 12.02.2023; Full Article 15.03.2023; Corrected Article 28.04.2023 | |

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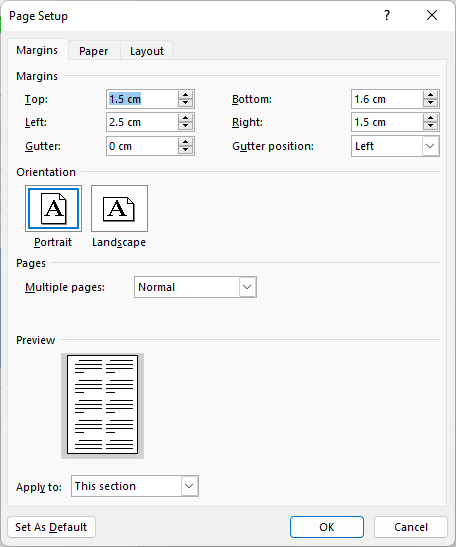


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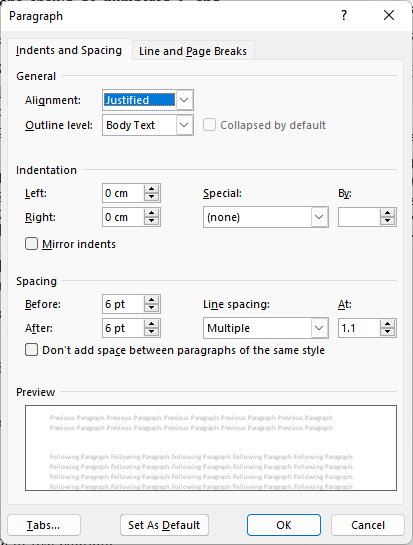


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Define abbreviations and acronyms the first time they are used in the text, even after they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, sc, dc, and rms do not have to be defined. Do not use abbreviations in the title or heads unless they are unavoidable.

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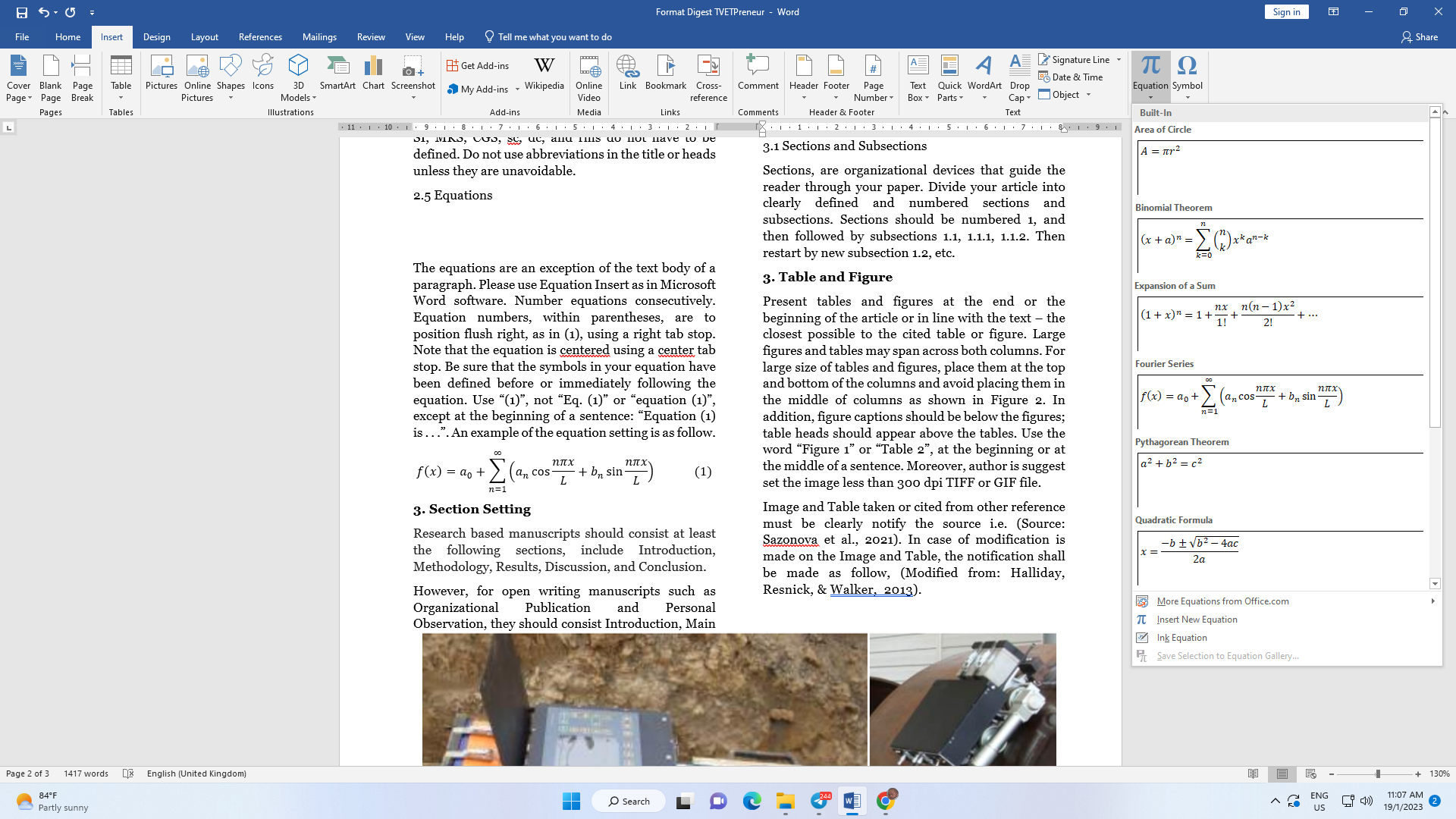


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### Figure 4. Application of USD-60-8K-A Scanner for Weld Defect Detection. (Source: Sazonova et al., 2021)

### 3.2 Table and Figure

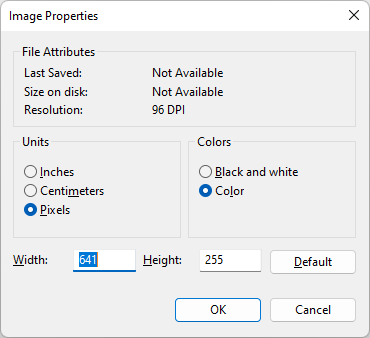


Figure 5. Setting the resolution in Paint Software.

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### 4. References

### Table 1. Example of in-text citation.

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| **Type** | **Example** |
| Parenetical | Grammar of writing features the writer categories either the good one or the bad one (Van der Geer et al., 2000). |
| Narrative | Strunk & White (1979) urges that writing style captures a reader’s attention in reading a material. |

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4.1 Reference to a Journal Publication

Van der Geer, J., Hanraads, J. A. J., & Lupton R. A. (2000). The art of writing a scientific article. *Journal of Scientific Communications*, 163, 51-59.

Sazonova, S. A., Nikolenko, S. D., Osipov, A. A., Zyazina, T. V., & Venevitin, A. A. (2021, April). Weld defects and automation of methods for their detection. *In Journal of Physics: Conference Series* (Vol. 1889, No. 2, p. 022078). IOP Publishing.

4.2 Reference to a Book

Strunk, W., Jr., & White, E. B. (1979). *The elements of style. (3rd ed.)*. New York: Macmillan.

Halliday, D., Resnick, R., & Walker, J. (2013). Fundamentals of physics (10th ed.). Wiley.

4.3 Reference to a Chapter in an Edited Book

Lawrence, J. A., & Dodds, A. E. (2003). Goal-directed activities and life-span development. In J. Valsiner & K. Connolly (Eds.), *Handbook of developmental psychology*(pp. 517-533). Sage Publications.

4.4 Reference to a Web Source

Rasmussen, C. (2021, October 12). Icy ‘glue’ may control pace of Antarctic ice-shelf breakup*.* *National Aeronautics and Space Administration.* https://www.nasa.gov/feature/jpl/icy-glue-may-control-pace-of-antarctic-ice-shelf-breakup

Greenhouse, S. (2020, July 30). The coronavirus pandemic has intensified systemic economic racism against black Americans. The New Yorker. https://www.newyorker.com/ news/news-desk/the-pandemic-has-intensified-systemic-economic-racism-against-black-americans

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