

## ***Journal of Measurement Science and Instrumentation***

***Journal of Measurement Science and Instrumentation*** (CN14-1357/TH, ISSN 1674-8042) is published by North University of China. It is a comprehensive academic journal, aiming to present scientific research papers in the fields of measurement science and instrumentation, including general principles, technologies and instrumentation of measurement and control applied to such academic and industrial fields as mechanics, electric and electronic engineering, magnetics, optics, chemistry, biology, and so on.

### **We accept papers on the following topics:**

1. General theory and principles of measurement science and instrumentation, including measurement methods and practical developments such as precision measurements, new measurement principles, advanced technology of measurement, new generation instruments and systems.
2. New techniques and systems in measurement: nanometer test techniques, remote test and calibration, automated test&diagnostics systems, calibration& self-calibration, virtual measurement systems, non-invasive measurement systems, distributed measurement systems.
3. Measurement science and techniques in biological applications, medical and life sciences, material research.
4. Measurement methods and apparatus for astronomy and astrophysics.
5. Sensors, sensor systems and their applications (sensing principles and mechanisms, optoelectronic sensors, mechanical sensors, thermal sensors, magnetic sensors, optical sensors, fibre optic sensors, smart sensors, chemical and biological sensors, wireless network sensors, sensors for extreme environments, etc. ).
6. Signal processing techniques (A/D & D/A converters, data acquisition, data output, signal transmission, data preprocessing & post-processing, image processing &

pattern recognition, signal detection & classification, inverse problems & signal reconstruction, etc. ).

7. Optical and laser based techniques (optical metrology; optical methods for process control, optical micro-electromechanical systems, optical techniques in micro-mechanics; microscopy and adaptive optics; laser material processing, laser beam delivery and diagnostics, laser remote sensing and environmental monitoring, laser safety, laser applications in medicine and biology, etc.).

8. Imaging techniques (microscopy, tomography, holography, THz technology, etc.).

9. Spectroscopy (optical, acoustic, dielectric principles, mass spectroscopy, fluorescence, x-ray, engineering applications of spectroscopy, etc.).

10. Novel instrument systems and technology (virtual instrument system, design and manufacture of instruments, detectors, instruments and methods for non-destructive tests, instruments and techniques for dosimetry, monitoring and radiation damage, etc.).

**We accept manuscripts that meet the requirements stated in the instructions below:**

1. Contribution article must be the original work and has not been published before or under consideration for another publication, or a translation version of any papers published in other language.

2. The manuscript should contain items arranged as follows: title, author, affiliation, abstract (including objective, method, result and conclusion), keywords (between 5 and 8 keywords), text body, acknowledgements, references.

3. You can send your paper as an attachment by e-mail to [jmsi@nuc.edu.cn](mailto:jmsi@nuc.edu.cn) or [nucjmsi@sina.com](mailto:nucjmsi@sina.com).

4. It is necessary for Chinese authors to fill the *Inquiry Form on the Protection of Secrets* (download from the website) about your manuscript and stamp the official seal of security department on it, and then send it to the Editorial Office when submitting the paper.

## References

### Journal Articles:

[1] Wang M J, Zhang X G, Han Y J, et al. Elimination of impulse noise by auto-adapted weight filter. *Optics and Precision Engineering*, 2007, 15(5): 779-783.

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[2] Schroder D K. *Semiconductor material and device characterization*. John Wiley and Sons, New York, 1999: 34-43.

### Conference proceedings:

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### Patents:

[4] Hart A C, Huff J C, Walker K L. Method of making a fiber having low polarization mode dispersion due to a permanent spin. US patent: 5298047. 1994-09-19.

### Dissertations:

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