

Special Issue on  
**Quantitative Analysis of Musculoskeletal Ultrasound:  
Techniques and Clinical Applications**

# CALL FOR PAPERS

Ultrasound is widely adopted for many clinical applications. Recent advances in ultrasound technology for imaging and therapeutic activities have contributed to improved diagnostic ability and treatments for patients with musculoskeletal diseases. Quantitative ultrasound is a recently developed promising method for assessing the structure and function of musculoskeletal tissues. Many acoustic parameters, such as ultrasound propagation velocity, attenuation coefficient, reflection coefficient, scattering coefficient, and surface roughness index, are typically used for quantitative evaluations of the properties of various tissues and organs. Utilizing these properties, novel signal and image processing techniques as well as new devices have been developed to facilitate many potentials in new clinical applications.

For this special issue, we invite clinicians and investigators to contribute original research as well as review articles that would support the continuing fast development of quantitative ultrasound in techniques and clinical applications for musculoskeletal diseases.

Potential topics include but are not limited to the following:

- ▶ Recent development and applications of quantitative ultrasound imaging
- ▶ Clinical evaluation and measurement of musculoskeletal and soft tissues with quantitative ultrasound diagnostic information
- ▶ Current and new techniques of quantitative ultrasound evaluation
- ▶ Recent advances in quantitative ultrasonic signal and image processing and their clinical applications
- ▶ Quantitative assessment of ultrasonic biological effects and therapeutic ultrasound
- ▶ Rehabilitation with quantitative ultrasound

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/rheumatology/qamu/>.

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