

CALL FOR PAPERS

In recent decades, we have seen the evolution of total hip arthroplasty surgery going from a long inpatient procedure to same-day surgery. We have seen constant innovation in implant and instrument design as well as constant improvement in the materials we use (such as highly cross-linked polyethylene). We have also witnessed the evolution of patient specific instruments and implants as well as the development of computer navigation and sensors.

Robotic assisted surgery is currently being developed by all the major implant manufacturers. We currently have a few different robotic tools already available for total hip arthroplasty and many more have been announced and are under development. The main challenge currently facing the hip replacement surgeon is understanding how to best integrate all these novel technologies and most importantly how to integrate them while increasing the value of care we deliver to our patients and without increasing the ever-rising cost of care.

In this special issue, we aim to introduce to our readers the current developments in computer navigation, sensors, patient specific guides, and robotic assisted surgery. Furthermore, we would like to discuss the economics of such innovations and how to control the ever-rising cost of the care we provide to our patients.

We welcome submissions that will review the current advancements in the field of navigation, sensors, and robotic assisted surgery as well as original work in the field.

Potential topics include but are not limited to the following:

- ▶ Modern computer navigation in THA
- ▶ Imageless navigation in THA
- ▶ Accelerometer in THA
- ▶ Patient specific guides for THA
- ▶ Robotic assisted THA: what is available?
- ▶ Mechanically based utilitarian technologies in THA
- ▶ Innovation in perioperative imaging in THA
- ▶ Hip-spine relationship in THA

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/aorth/atja/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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