

## Special Issue

# Augmented Reality Navigation Systems in Health Care

### Message from the Guest Editors

The application of augmented reality technology to health care holds great promise in that it can provide users with pertinent visual information while they are performing manual tasks. In surgery and interventional radiology, augmented reality is used to provide navigational feedback on instrument positions in relation to anatomical structures to assist the physician in carrying out a procedure with maximal accuracy. For the coming generations of augmented reality systems improved matching between the real world and superimposed data is essential. Sensors are needed that accurately decipher our three-dimensional environment. For this issue we welcome clinical papers describing new technical solutions for AR navigation in different surgical and interventional fields as well as technical papers on the design of new AR systems with special emphasis on patient recognition and tracking for accurate image overlay. Novel solutions or applications of intraoperative imaging modalities and sensor technologies for the visual, infrared, hyperspectral and X-ray spectra are of great interest.

### Guest Editors

Dr. Mario Romero

Dr. Roger Härtl

Dr. Erik Edström

Dr. Adrian Elmi-Terander

Dr. Benno Hendriks

Dr. Ibrahim Hussain

### Deadline for manuscript submissions

closed (30 October 2022)



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### Editor-in-Chief

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