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Attitude Estimation Based on Data Processing of Sensors

Guest Editor:

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Deadline for manuscript submissions:
closed (31 May 2023)

Message from the Guest Editor

Dear Colleagues,

Novel ideas about attitude sensors, new methods to increase the measurement accuracy of the sun, stars or horizon attitude sensors, new algorithms to increase the robustness of star-identification, extraction of meaningful information from degraded sensors, or from those with poor knowledge of sensor parameters, more accurate or faster star centroid algorithms, or new methods of post-flight recalibration new methods. These is an incomplete list of subjects this Special Issue is particularly interested in.

Contributions to the theory of attitude estimation (single-point or filtered) are also of great interest. This involves, for instance, new, more accurate, and/or faster filtering techniques, state and parameter estimation, estimation using dual quaternions and multiplicative approaches. New filtering to estimate attitude and attitude rate provides another exampled of a subject this Special Issue is particularly interested in.

Finally, surveys with comparisons on different data-processing techniques as well as on attitude estimation methods providing rational summary of competing approaches are also of great interest.

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Message from the Editor-in-Chief

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