

CALL FOR PAPERS



SEAFLOOR ROBOTICS: THE NEW PARADIGM

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Undersea robotics and intervention capabilities are becoming more and more desired by the Department of Defense (DoD), offshore energy industry, and science. Evidence in DoD can be found in DARPA's new Angler program that seeks to develop undersea autonomous robotic solutions capable of navigating ocean depths, surveying wide areas, and physically manipulating manmade objects of interest on the seafloor. This trend can be seen in industry where new unmanned vehicles are being designed to stay "resident" on the seafloor for long durations to perform subsea inspection, maintenance, and repair for offshore energy. There's even a trend where vehicles "transform" their shape depending on mission needs (e.g., long-distance navigation versus intervention tasks or the ability to "twist and turn" to travel through small openings and wrap around subsea installations).

Accomplishing complex, long-duration navigation, survey, and intervention missions subsea requires advances in navigation systems; batteries and power systems; underwater manipulators and interchangeable tooling; underwater imaging sensors and algorithms; low size, weight, and power processors; artificial intelligence engines for autonomous decision making; and many other technologies. This call for papers seeks manuscripts, technical reports, and commentaries on all technologies related to seafloor robotics—the new paradigm.

The *MTS Journal* is the flagship publication of the Marine Technology Society. It publishes the highest caliber, peer-reviewed papers on subjects of interest to the society: marine technology, ocean science, marine policy, and education.

Important Dates

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| • February 21, 2020 | Manuscript deadline |
| • April 18, 2020 | Authors receive reviews |
| • May 16, 2020 | Authors submit revisions |
| • May 30, 2020 | Authors receive 2nd round of reviews |
| • June 6, 2020 | Authors submit final revisions |
| • June 20, 2020 | Authors receive proofs |
| • June 27, 2020 | Authors return final corrections |
| • July 20, 2020 | MTSJ available online and sent to printer |

Author Information

Information for submitting manuscripts can be found at: <https://www.mtsociety.org/news-publications/journal-author-guides/>. Authors who intend to submit a manuscript must complete an author information form (available on the website listed above) and return it to Amy Morgante (Journal@mtsociety.org) as soon as possible.

For comments, suggestions, or requests, please email any of the Guest Editors: Donna Kocak (donna.kocak@l3harris.com), Chris Roper (christopher.roper@us.saabgroup.com), Andrew Ziegwied (andrew.ziegwied@l3harris.com) or the MTSJ managing editor Amy Morgante (Journal@mtsociety.org).