

**ISOPE-2020 Coastal Engineering Sessions** *First Call For Papers*

We warmly invite colleagues, interested in any coastal engineering area, to submit high quality, original papers to the ISOPE 2020 coastal engineering sessions. Deep and well-assembled understanding of coastal processes and coastal structures' performance, combined with innovative solutions, are necessary for secure and sustainable coastal areas that protect lives and preserve the fragile coastal environment under intense evolving conditions.

Major Session Topics	Key Words
<b>Coastal hydrodynamics</b>	Wave mechanics, Numerical modeling, CFD, Lagrangian particle methods, MPS, Boussinesq-type equations, Wave propagation, Breaking waves, Current-wave interactions, Freak waves, Tidal dynamics, Storm surge, Infragravity waves, Coastal freshwater-seawater dynamics, Measurements, Machine learning, Harbor oscillations, Wave and tidal statistics
<b>(Focus Session)</b>	“Application of Machine Learning on Coastal Engineering”
<b>Coastal structures</b>	Numerical and experimental modeling, Wave-current-structure-soil interactions, Wave and current forces, Breakwaters, Coastal defense structures, Innovative/hybrid (coastal protection/wave energy utilization) technologies, Eco-friendly development strategies, Port development, Overtopping, Scouring and backfilling, Performance-based design, Design optimization, Climate change impacts, Monitoring, Maintenance
<b>(Focus Session)</b>	“Assessment of the Current and Future Vulnerability of Coastal Flooding”
<b>Coastal morphodynamics and ecosystem</b>	Sediment transport, Coastal erosion, Nearshore waves, Rip currents, River discharge, Shoreline changes, Climate change effects, Long-term trend and extreme events, Prevention and mitigation strategies, Beach nourishment, Artificial beaches, GIS and Remote sensing, Coastal pollution, Water quality, Dredging and environmental restoration, Engineering with nature
<b>(Focus Session)</b>	“Beach Nourishment”
<b>Coastal management, risk assessment and mitigation</b>	Lessons learned from disasters, Extreme events, Climate change effects on risk, Risk assessment and mitigation/prevention strategies, Coastal zone management, Flood management, Life cycle management
<b>Tsunami and safety</b>	See the Tsunami symposium call-for-papers.

We also welcome papers on other emerging coastal engineering topics. All papers accepted following peer-review will be published in the ISOPE conference proceedings indexed by Engineering Index (EI), Scopus and others. High-quality papers may be selected for further review for publication in the *International Journal of Offshore and Polar Engineering*, indexed by Science Citation Index.

Email abstracts to any organizer below or submit online at: <http://www.isopec.org/index.php/online-submission/> including contact author's full postal address, telephone/fax numbers and e-mail address. ISOPE-2020 updates at: [www.isopec.org](http://www.isopec.org)

**Abstract:**  
 Manuscript for Review: **October 20, 2019**  
 Final Revised Manuscript: January 15, 2020  
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**International Coastal Engineering Committee**

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