



पत्तन, पोत परिवहन  
एवं जलमार्ग मंत्रालय  
MINISTRY OF  
PORTS, SHIPPING  
AND WATERWAYS



# SECOND ANNOUNCEMENT

## PIANC - COPEDEC XI

Eleventh International Conference on Coastal and  
Port Engineering in Developing Countries

21-26 February 2027  
IIT Madras, Chennai, India

**"Adapting coastal, port and waterway infrastructure to  
the changing climate"**

Official conference website



<http://www.pianc-copedec2027.in>

## IIT Madras Director's welcome message

The Indian Institute of Technology Madras (IIT Madras) is pleased to host **PIANC-COPEDEC XI** on its campus in Chennai from **21 to 26 February 2027**. The Conference provides an important international platform for coastal and port engineering communities, particularly in developing countries, to exchange knowledge, experiences and practical solutions. The return of PIANC-COPEDEC to IIT Madras reflects the Institute's longstanding contribution to coastal and port engineering research, education and professional practice. At a time of increasing investment in port and coastal infrastructure and growing challenges associated with climate change, PIANC-COPEDEC XI provides a timely opportunity for experts from around the world to share innovative and sustainable approaches. We warmly invite you to Chennai to participate in the Conference and to experience the academic environment and cultural heritage of South India.

### ABOUT PIANC – COPEDEC XI

The success of the First International Conference on Coastal and Port Engineering in Developing Countries (COPEDEC), held in Colombo, Sri Lanka, in March 1983, resulted in the creation of a Permanent Secretariat (PS) to organise this special conference once every four years in a developing country. During the COPEDEC VI Conference in Colombo in 2003, a merger agreement between PIANC, the International Association for Waterborne Transport Infrastructure, and COPEDEC was signed. After witnessing the great success of PIANC COPEDEC 2012 in IIT Madras, the International PIANC - COPEDEC Organising Committee decided to get back to IIT Madras to host the PIANC COPEDEC in 2027. Accordingly, at the International PIANC - COPEDEC XI Conference will be held in IIT Madras Chennai, India in February 2027. Technical tours and social events will also be arranged during the week of the Conference. The language of the Conference will be English.



## VENUE

The Conference will be held at the IC&SR Building, Indian Institute of Technology Madras (IIT Madras), Chennai, India. Located within the serene and green IIT Madras campus, the venue provides an ideal setting for technical presentations, expert discussions and professional interactions. IIT Madras, one of

India's premier institutions of higher education and research, is located in Chennai, Tamil Nadu, a major coastal city on the southeast coast of India. Chennai's strategic location and long association with maritime, coastal and port-related activities make it a fitting venue for PIANC-COPEDEC XI.



The campus is well connected to Chennai International Airport, railway stations and major transport facilities, providing convenient access for national and international participants.



## OBJECTIVES

**The active mission of the PIANC - COPEDEC Conferences is**

To serve as an international platform for coastal and port engineers from developing countries to exchange knowledge and experiences amongst themselves and experts from industrialized Nations

To support the development of a sustainable human resource pool of coastal and port Engineering professionals.

**Overall theme for PIANC-COPEDEC XI**

***Adapting Coastal, Port and Waterway infrastructure to the Changing Climate***

As with previous conferences, the emphasis on technical subjects will remain. Papers will focus on practical applications, planning, management and environmental aspects of coastal and port engineering in developing and industrialized countries, including case study documentation and discussions.



# CONFERENCE COMMITTEE

## International Organising Committee

Freddy Wens, Chairman, Belgium  
Mohammadreza Allahyar, Vice Chairman, Iran  
Geert Van Cappellen, Secretary General of PIANC, Belgium  
S.A. Sannasiraj, Chairman of the LOC, India  
Hartmut Brühl, Germany  
Han Ligteringen, Netherlands  
Tauqeer Ahmet, South Africa

## Local Organising Committee

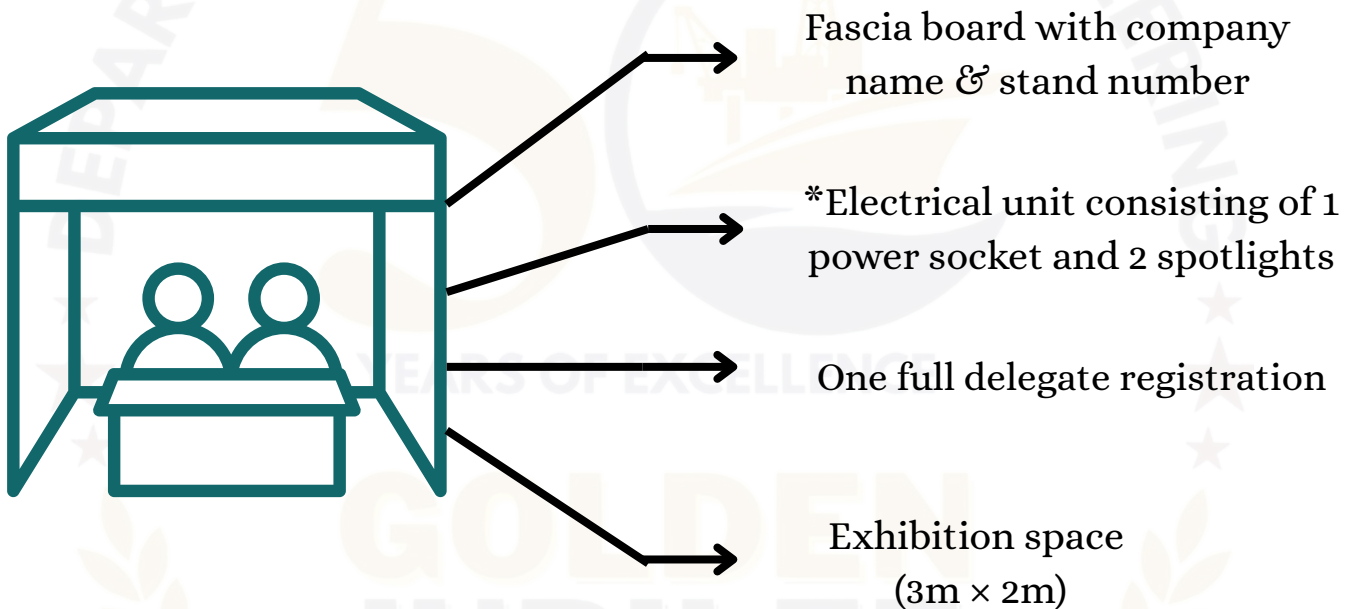
S.A. Sannasiraj, IIT Madras  
Abdus Samad, IIT Madras  
R. Balaji, Director, National Institute of Technology (NIOT)  
Capt G.M. Balan, General Manager (Marine Services), Kamarajar Port Limited  
Jimmy Bhansari, Head of Ports Planning and Engineering, Adani Ports and SEZ Limited  
M. Krishnaveni, Anna University  
Sh. Mukesh Mangal, Additional Secretary, Ministry of Ports, Shipping and Waterways  
S. Nallayarasu, IIT Madras  
K. Narendran, IIT Madras  
M.V. Ramana Murthy, Mission Director, Deep Ocean Mission  
K. Ravi Kumar, Chief Engineer, Chennai Port Authority  
R Saravanan, Group General Manager, Ports and Water Resources Division, Rites Limited  
P. Sunny Kumar, IIT Madras  
Tijo C Mathew, Head – Ports & Harbour Business Segment, Larsen & Toubro  
H.N. Aswath (Invitee)

## Paper Selection Committee

Ron Cox, Australia – Chairman  
V. Sriram, IIT Madras – Member Secretary  
Han Ligteringen, The Netherlands  
G. Mocke, South Africa-Oman  
C. Pattiaratchi, Sri Lanka-Australia  
T. Shibayama, Japan  
V. Sundar, IIT Madras  
K.G. Vijay, IIT Madras  
R. Vijayakumar, IIT Madras  
Thejesh Kumar Garala, IIT Madras

## EXHIBITOR PACKAGE

The event PIANC-COPEDEC XI is expected to attract more than 300 delegates around the globe, including port operators, development and investment companies, harbour agencies, port and terminal equipment suppliers, consulting firms, marine contractors, dredging organisations, environmental specialists and research laboratories. The exhibition will form a central part of the attractions for this prestigious international conference, which is hosted by PIANC once every four years.



### PRICING

- ₹ 3,00,000 (~2900 €) per stall
- ₹ 2,00,000 (~1900 €) for each additional stall



## REGISTRATION

Registration for PIANC-COPEDEC XI is now open. Participants from academia, industry, government organisations, research institutions and professional communities are invited to register and participate in the conference. Details of registration categories, fees, important dates and the registration process are available on the conference website.

| Category<br>(Registration Fees)                                 | Until 31 Oct 2026 | From 1 Nov 2026 |
|-----------------------------------------------------------------|-------------------|-----------------|
| Participant                                                     | 650 €             | 700 €           |
| Presenting author (regular<br>and fellows)                      | 600 €             | Not applicable  |
| Full time student (letter<br>from parent institute<br>required) | 300 €             | 350 €           |
| Accompanying person                                             | 350 €             | 400 €           |

- **PIANC Members:** Eligible for an additional reduction of 50 €.
- **One Day Registration:** Available at 200 € (150 € for students), including a conference bag but excluding social functions.
- **Indian Delegates:** Registration fees may be subsidized through sponsorship from Indian government organizations.

**SCAN TO REGISTER**



## FELLOWSHIPS

Fellowships have been awarded to selected participants, with priority given to authors from developing countries. PIANC has awarded full fellowships to 19 international participants and partial fellowships to 15 international participants. Partial fellowships for Indian delegates are funded by Indian Government organizations.

## LOCAL TRANSPORT

To facilitate smooth travel within the city of Chennai in order to reach the hotels and the conference venue, the conference organizers will arrange transportation on a chargeable basis for general delegates who are not offered fellowship. It is preferable to have the pre-booking done through email to ***[copedec2027@doe.iitm.ac.in](mailto:copedec2027@doe.iitm.ac.in)***

During the period of conference and workshop, shuttle service at fixed timing will be operated between the listed hotels and the conference venue. A travel desk will be available at the conference venue for further enquiries on bookings of post-conference tours, confirmation of tickets, individual transfers on payment basis.



# ACCOMMODATION

| Category | Hotel Name            | Single  | Double  |
|----------|-----------------------|---------|---------|
| 5 star   | Taj Wellington Mews   | ₹ 16500 | ₹ 16500 |
|          | Westin                | ₹ 15000 | ₹ 17500 |
|          | Ramada (Premium)      | ₹ 9000  | ₹ 10000 |
|          | Ramada(Standard)      | ₹ 8000  | ₹ 9000  |
| 4-3 star | Lemon Tree (Standard) | ₹ 8250  | ₹ 9250  |
|          | Boulevard             | ₹ 7000  | ₹ 7500  |
| Budget   | Essentia (Premium)    | ₹ 5600  | ₹ 6600  |
|          | Essentia (Deluxe)     | ₹ 4500  | ₹ 5500  |
|          | Ginger*               | ₹ 3600  | ₹ 4200  |

| Hotel Name          | Airport | Railway station | Conference Venue |
|---------------------|---------|-----------------|------------------|
| Taj Wellington Mews | 14.6    | 16.5            | 6                |
| Westin              | 12      | 16.2            | 2                |
| Ramada              | 10.2    | 13.5            | 4.5              |
| Lemon Tree          | 10      | 13.3            | 6.5              |
| Boulevard           | 12      | 16.6            | 8.3              |
| Essentia            | 15.2    | 20              | 10.3             |
| Ginger*             | 15      | 16.3            | 4                |

Note:-

- Distance in km
- \*Limited number of accommodations.
- All rates mentioned are exclusive of GST.
- The quoted rates are applicable for bookings made before December 2026. Rates may vary depending on specific requirements and services availed.
- GST applicable: 5% for < ₹7,500  
18% for > ₹7,500

## WORKSHOPS

It is being planned two parallel workshop on the third day morning session followed by Technical tours.

**24<sup>th</sup> February 2027**

**9.00 am - 10.40 am**

### Workshop on the Impact of Climate Change on Coastal Zones



**Prof. Ron Cox**

*Honorary Associate Professor*

*Civil and Environmental Engineering at Water Research Laboratory, Civil and Environmental Engineering, UNSW Sydney*



**Prof. Charitha Pattiaratchi**

*Professor at The University of Western Australia*

### Workshop on the Impact of Climate Change on Sea and River Ports.

**11.00 am - 12.40 pm**

**Laure Herbert**

*Principal Marine Works Engineer at Setec International*



**Prof. Han Ligteringen**

*Emeritus Professor TU-Delft and IHE Delft*



## SOCIAL EVENTS

**Icebreaker Reception: 22<sup>nd</sup> February 2027**

**PIANC Reception: 23<sup>rd</sup> February 2027**

**Closing Banquet: 24<sup>th</sup> February 2027**



## TECHNICAL TOUR

As part of PIANC-COPEDEC XI, technical visits to either Port, or coastal protection site or Chennai city tour, will be organised to provide participants with practical exposure to port operations, coastal protection and the maritime and cultural heritage of the region.



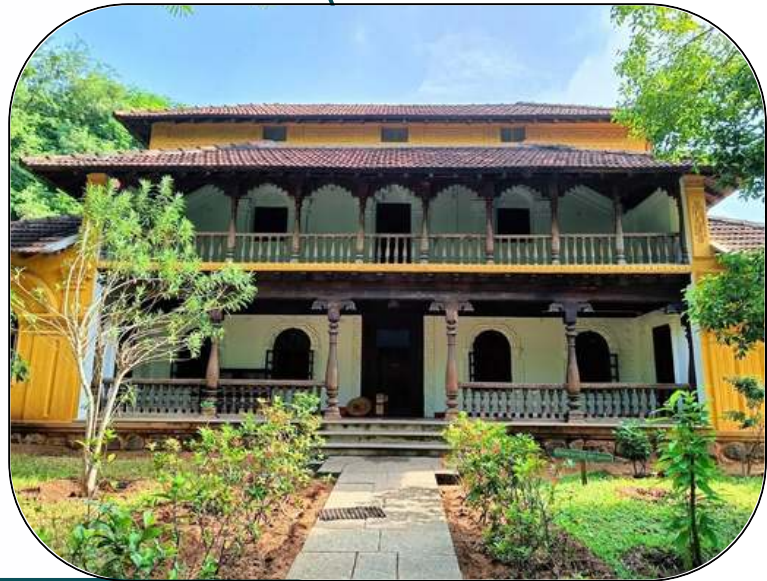
Participants may indicate their preferences for the visits at the time of registration, subject to availability and logistical arrangements. Detailed schedules and visit information will be provided to registered participants.



# ACCOMPANYING PERSON PROGRAM

## 22<sup>nd</sup> February 2027

- Visit to DakshinaChitra - a center for the living traditions of art, folk performing arts, craft and architecture of India with an emphasis on the traditions of South India
- Lunch at Malgudi
- Visit to Crocodile park at Muttukadu
- Return to Conference venue at 5pm



## 23<sup>rd</sup> February 2027

- Visit to Gandhi Mandapam, Guindy
- Shopping and Lunch at Phoenix mall
- Return to Conference venue at 5pm



## 25<sup>th</sup> February 2027

- Visit to Valluvar Kottam and Pondy Bazaar
- Return to Conference venue



# CONFERENCE THEMES

The conference will cover a broad range of topics related to coastal, port and waterway engineering, with emphasis on climate resilience, sustainable infrastructure, technological advancements and emerging challenges in developing countries.

## Port Planning & Management

## Port Engineering

## Coastal Engineering

# CONFERENCE THEMES

## Dredging & Disposal Management

## Coastal Zone & Risk Management

## AI & Machine Learning in Ports & Coasts

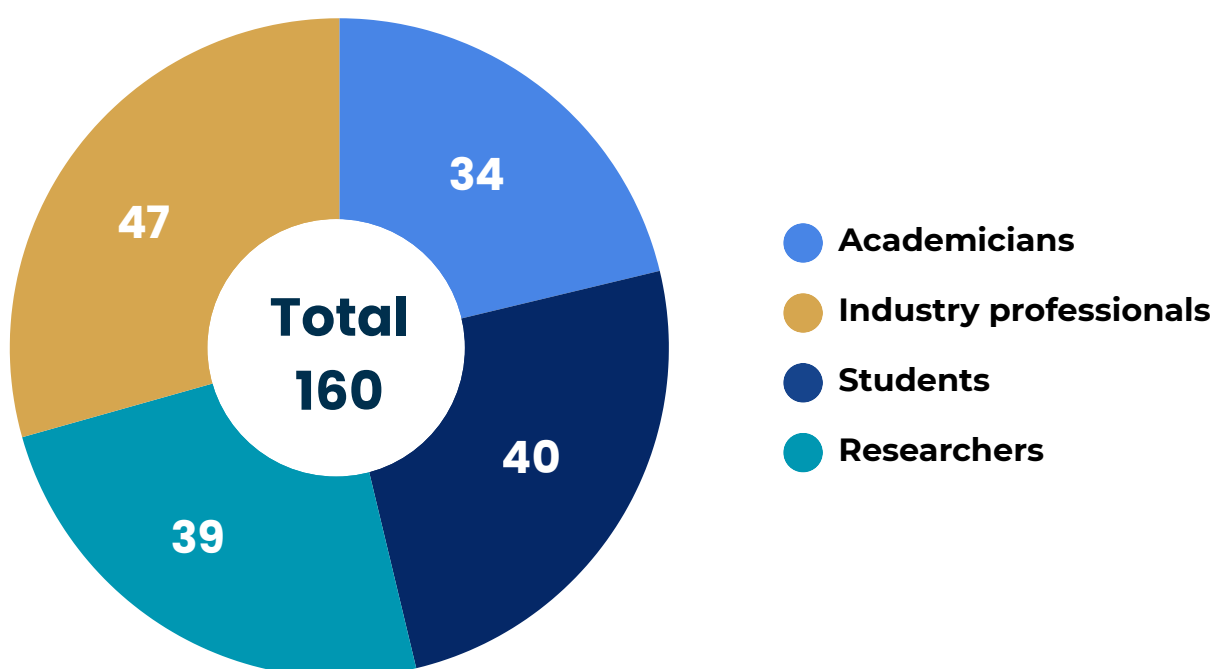
## Short Sea Shipping, Ferries, Fishing Ports & Navigation

## Climate Change & Environmental Issues



## PRESENTATION DETAILS

| CONFERENCE THEME                                                                        | NO OF PRESENTATION |
|-----------------------------------------------------------------------------------------|--------------------|
| Port Engineering                                                                        | 30                 |
| Port Planning and Management                                                            | 8                  |
| Coastal Engineering                                                                     | 59                 |
| Coastal Zone and Coastal Risk Management                                                | 21                 |
| Short Sea Shipping, Ferries, RORO, Fishing Ports, Coastal and Inland Navigation:        | 10                 |
| Climate Change and Port & Coastal environmental issues                                  | 17                 |
| Artificial Intelligence (AI) and Machine Learning (ML) applications in ports and coasts | 6                  |
| Dredging and Disposal Management issues                                                 | 9                  |
| <b>Total no of papers</b>                                                               | <b>160</b>         |



# TENTATIVE TECHNICAL PROGRAMME & SCHEDULE

| Timings       | Monday<br>(22nd February,<br>2027)              | Tuesday<br>(23rd February,<br>2027) | Wednesday<br>(24th February,<br>2027)                                       | Thursday<br>(25th February,<br>2027)    |
|---------------|-------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------|
| 9:00 - 9:50   | Registration at<br>conference<br>venue (coffee) | Sessions 9 to 12<br>(16 papers)     | Workshop on<br>the Impact of<br>Climate<br>Change on<br>Coastal Zones       | Sessions 25 to<br>28<br>(16 papers)     |
| 9:50 – 10:40  | Opening<br>ceremony                             |                                     |                                                                             |                                         |
| 10:40 – 11:00 |                                                 | Tea/Coffee<br>break                 | Tea/Coffee<br>break                                                         | Tea/Coffee<br>break                     |
| 11:00 - 11:25 | Opening<br>exhibition                           | Sessions 13 to<br>16<br>(16 papers) | Workshop on<br>the Impact of<br>Climate<br>Change on Sea<br>and River Ports | Sessions 29 to<br>32<br>(16 papers)     |
| 11:25 - 11:50 | Tea/Coffee                                      |                                     |                                                                             |                                         |
| 11:50 - 12:40 | Plenary Talk                                    |                                     |                                                                             |                                         |
| 12:40 - 13:40 | Lunch                                           | Lunch                               | Lunch                                                                       | Lunch                                   |
| 13:40 - 15:20 | Sessions 1 to 4<br>(16 papers)                  | Sessions 17 to<br>20<br>(16 papers) | Technical Visit                                                             | Sessions 33 to<br>36<br>(16 papers)     |
| 15:20 - 15:40 | Tea/Coffee<br>break                             | Tea/Coffee<br>break                 |                                                                             | Tea/Coffee<br>break                     |
| 15:40 - 17:20 | Sessions 5 to 8<br>(16 papers)                  | Sessions 21 to<br>24<br>(16 papers) |                                                                             | Keynote<br>Lecture &<br>Closing Session |
| 19:00-21:00   | Icebreaker<br>reception                         | PIANC<br>reception                  | Closing<br>banquet                                                          |                                         |

# PRESENTATION LIST

## PORT PLANNING AND MANAGEMENT

| TITLE                                                                                                                                                                                                                                             | COUNTRY     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Nautical studies for the optimization of projects and port operations: from basic design to digital twin-based smart ports and Pilot training<br>Raul Redondo, Raul Atienza Lourdes Pecharroman                                                   | Spain       |
| A Common cross border strategy for storm preparedness and operational resilience techniques for Seaports<br>A.Karditsa, M.Hatzaki, M.Roumpis, M.Tsatsaronis, G.Vaggelas, P.Trakadas, S.Poulos,F.Markozanes, M.Lesioti, A.Giannopoulos, P.Patlakas | Greece      |
| Concept of benchmarking operational efficiency for dry bulk export terminals to increase revenue and economic performance<br>Nikolay Kuptsov, Nikolay Woronin, Alexander Ananenko                                                                 | Netherlands |
| Algorithm for optimal terminal storage yard layout planning<br>A. Semenov                                                                                                                                                                         | Russia      |
| Engineering Requirements for Offshore Marshalling Ports in Cold-Climate Regions: Case Study of Port of Raahé (2025–2035)<br>Dr. Enrika Uusitalo                                                                                                   | Finland     |
| Payra Port in Bangladesh: Its Prospect, Constraint and Way Forward<br>M.B. Rashid                                                                                                                                                                 | Bangladesh  |
| Optimizing Moroccan ports for the green hydrogen PtX value chain<br>Oumaima Sabber, Hiba Chdaoui, Morocco,                                                                                                                                        | Morocco     |
| Blue economy for a sustainable and secured coastal and port architecture in the Gulf of Guinea: Nigeria<br>S. I. Oni                                                                                                                              | Nigeria     |

## ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML) APPLICATIONS IN PORTS AND COASTS

| TITLE                                                                                                                                                                              | COUNTRY |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Hindcasting and forecasting of wave parameters under operational and extreme conditions using AI/ML<br>Maneesha Sebastian, Animesh Basu, K. A. Chavan, M. M. Vaidya, A. A. Purohit | India   |
| Wave forecasting in data-scarce regions using a spatio-temporal transformer with meteorological forcing only<br>Y. Aoki, R. Nakamura                                               | Japan   |
| Optimization of berth allocation and vessel traffic management at Imam Khomeini Port using DRL<br>M.A. Zarghami                                                                    | Iran    |
| Optimal warehouse location using genetic algorithm and game theory: Imam Khomeini port case study<br>Hanneneh Rezaei                                                               | Iran    |
| Real-time River Water Monitoring and Visualization Application<br>S.Sahana                                                                                                         | India   |
| Physics-Informed Neural Network in Flow Reconstruction to Support Subsea Leak Monitoring and Quantification<br>Guilherme D. R. Freitas, Gustavo L. R. Caldas, Roger M. Moreira     | Brazil  |

# COASTAL ENGINEERING

| TITLE                                                                                                                                                                                                                      | COUNTRY    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Hydrodynamic and sediment transport modelling to assess the impact of a proposed breakwater at Minicoy Island<br>Dr. Anil Bagwan, Dr. Jireshwar Sinha                                                                      | India      |
| Experimental study on the hydrodynamic characteristics of horizontally composite breakwater<br>Jijo Ponnachan, Ryan Mohammed, T Nasar                                                                                      | India      |
| Experimental Investigation on the Stability Assessment of Horizontally Composite Breakwater with Seabed Slope<br>Indela Gopi Reddy, Nasar T                                                                                | India      |
| Hydrodynamic and Sedimentation Impacts of a Proposed Protective Breakwater at Belekeri Fishing Harbour<br>R.K.Chaudhari, S.K. Kori, M. Phani kumar, Prabhat Chandra                                                        | India      |
| Physical Modelling of Submerged Rubble Mound Breakwaters with Bed Slope<br>Uday Kumar Gumasa, Mounika Mallela, Nilanjan Saha                                                                                               | India      |
| Experimental Investigation of a Novel Reef Ball Configuration as a Submerged Breakwater<br>A. Fatemi, S. T. Naeeni, S. Aliasgary                                                                                           | Iran       |
| Numerical studies on wave transmission over a submersible mushroom breakwater<br>Ramanareddy.P , Munireddy.M.G                                                                                                             | India      |
| Coastal protection at Haifa Bay beaches (Israel) by means of low crest detached rubble mound breakwaters<br>Daniela Ostrovsky Pressler, Guy Ziv , Dan Di Castro                                                            | Israel     |
| Integrated Numerical and Experimental Investigation of Wave Transmission and Run-Up on Classical and Low-Crested Breakwaters (PEGAR) Armored with Pentapod Units<br>H. Achiari, R.J.Purba, R.E.A. Jamroni, D.K. Natakusuma | Indonesia  |
| Wave Energy Dissipation Using Curved Breakwater Integrated with Vegetation<br>K.Priya, R. Manjula                                                                                                                          | India      |
| Cube Toe for Dabhol Breakwater<br>Rakesh Kadarkarai J, Mahalakshmi Ganesan, Vasantha Krishnan S                                                                                                                            | India      |
| Insert free tetrapod lifting using Friction & Gravity<br>Rakesh Kadarkarai J, Vasantha Krishnan S, Mahalakshmi Ganesan                                                                                                     | India      |
| Experimental validation of an enhanced design method for rock-filled mattresses as scour protection of berthing structures<br>G. Brocca, A. Rahman, M. Vicari, R. R. Mahajan                                               | Italy      |
| Comparison of Chinese and International Codes for the Calculation of Riprap Apron at Coastal Culvert Outlets<br>Yang Sihan                                                                                                 | China      |
| Stability analysis of an upper geotextile tube in a stacked formation subjected to wave action<br>Sireesha Thatavarthi, Kiran A S, Vijaya Ravichandran, Balaji Ramakrishnan                                                | India      |
| Sustainable rehabilitation of the tata power mundra outfall canal following cyclone Biparjoy<br>Snehal Buch, Prince Joshi, S.Reginald , A. Rahman                                                                          | India      |
| Integration of numerical and physical modelling for optimum design against cyclonic waves<br>K. P. M. Fernando, A. A. Al Salt, D. P. L. Ranasinghe                                                                         | Sri Lanka  |
| Numerical investigation of the influence of tidal range on the long-term shoreline change shoreward of a submerged breakwater<br>Y. Kuriyama, A. Katano, T. Shimizu                                                        | Japan      |
| Implications of Large-Scale Wave Diffraction Measurements for Sheltering Behind Coastal Structures<br>N. Violante-Carvalho, R.M. Moreira, J.T.A. Chacaltana                                                                | Brazil     |
| Nonlinear wave-current interactions in shallow water<br>R.M.Moreira, J.T.A.Chacaltana, N.Violante-Carvalho                                                                                                                 | Brazil     |
| Modification of TMA Spectra by Wave Breaking-Induced Aeration Processes<br>M. N. Hossain, A. Hoque, S. Araki                                                                                                               | Bangladesh |
| Experimental and numerical study of infragravity waves along the southwest coast of<br>K. S. Aiswariya Mary, V. Sriram                                                                                                     | India      |

# COASTAL ENGINEERING

| TITLE                                                                                                                                                                                                           | COUNTRY     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Analysis of extreme wave events off Chennai Coast using Moored Buoy Measurements<br>Janani R, Krishnaveni M, Jossia Joseph K, Ramasundaram S, Muthuvel P, Balaji Ramakrishnan                                   | India       |
| Seasonal sea-swell climatology from measurements and model influencing Coastal dynamics off Chennai<br>M. Kalyani, R. Balaji, K. Jossia Joseph, S. V. S. Phani Kumar                                            | India       |
| Freak waves in the Black Sea – observation and analysis<br>Yana Saprykina                                                                                                                                       | Russia      |
| Formation of rogue waves by dispersive mechanism in field and laboratory experiments<br>S.Yu. Kuznetsov, Ya.V. Saprykina                                                                                        | Russia      |
| Numerical investigation of wave impact pressure using improved SPH models<br>Swapnadip De Chowdhury                                                                                                             | India       |
| Numerical modelling of hydrodynamics around bridge piers during tsunami-like wave propagation<br>Murali Krishnamraju Kalidindi, Ananth Wuppukondur                                                              | India       |
| Numerical investigation into successive tsunami bore interaction and flow past a building<br>N. Hari Ram, V. Sriram                                                                                             | India       |
| Effects of Caspian Sea water level decline on wave and current patterns in Anzali Port<br>H. Namdari, K. Monir Vaghefi, M. H. Moeini                                                                            | Iran        |
| Validation of circulation model for upper Bengal Bay based on satellite data<br>Niimi, Kosako, Kusuhara, Nakagawa, Takeyasu, Tamura                                                                             | Japan       |
| Numerical Investigation of Nearshore Hydrodynamics to Assess Harbour Tranquillity along the West Coast of India<br>Sirsha Banerjee , Poonam Kumari Markandey, Mainak Chakraborty                                | India       |
| A practitioner's synthesis of physical, numerical, and measurement practices in coastal engineering<br>Wael Hassan                                                                                              | Belgium     |
| Simulation of nearshore wave climate for sediment transport assessment of Karnataka Coast<br>Shimna.P, T.Nasar, Shwetha.H.R                                                                                     | India       |
| Longshore Sediment Transport and Shoreline Changes on South West Coast of India<br>Kunhimammu Paravath, Nasar T                                                                                                 | India       |
| Impact of seasonal swash zone dynamics on sediment characteristics and beach stability at an urban beach.<br>Sankalp Shevale, Manasa R Behera, C. Gowri Shankar                                                 | India       |
| Integrated field measurements for monitoring morphodynamics of urban beaches in Manta, Ecuador<br>Jaén W., García P, Menéndez A.                                                                                | Ecuador     |
| Impact of Cyclone Ockhi on Nearshore Wave Climate and Short-Term Shoreline Morphodynamics along the Southwest Coast of India<br>Shanmuga Priyaa S, Shyamala Varthini D, Basanta Kumar Jena, Balaji Ramakrishnan | India       |
| Studies for erosion measures along the west coast of India<br>P K Suresh , R Sundaravadivelu , Nilanjan Saha , Kreesakumar                                                                                      | India       |
| Stabilisation and expansion work at the mouth of the Mono River, “Bouche du Roi”, in Benin<br>O. Stoschek, C. Esser, L. Mahnken, H. Specker                                                                     | Germany     |
| Solitary wave attenuation by mangroves: stability analysis using a second-order mass equation<br>R. A. Peres, A. M. F. Frasson, C. F. Loeffler, F. P. Piccoli, J. T. A. Chacaltana                              | Brazil      |
| Optimizing outfall structure for treated wastewater discharge: A conceptual and modeling approach for Eravur, Batticaloa<br>I.L.Abeygoonasekara, D.P.L.Ranasinghe, E.N.Lakmali                                  | Sri Lanka   |
| Modeling sea level rise and coastal risk for Bushehr Port, Persian Gulf: a data-driven assessment with nature-based adaptation options<br>T. Mohammadi, and H. Mastaneh                                         | Iran        |
| Roadmap for Off-shore Wind Port Adaptation in the North Sea<br>P. Ramsundersingh, P. Taneja.                                                                                                                    | Netherlands |

## COASTAL ENGINEERING

| TITLE                                                                                                                                                                                           | COUNTRY     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Experimental study on breakwater armoured with geosynthetic concrete mattress<br>Nithin Krishnan K V Pruthviraj U                                                                               | India       |
| Linearized Dispersion Relations for Different Internal Waves and Their Analytical Approximation<br>A. Hoque, M. Sulaiman, M. N. Hossain                                                         | Bangladesh  |
| Assessment of Bridge Hydraulics in a Coastal River Subjected to Flood–Tide Interaction<br>Kasturti V. Katte, Raghuram Singh B.                                                                  | India       |
| Concrete block toe alternative for non-excavatable sea bed at cyclone prone area<br>D. P. L. Ranasinghe, H. K. A. Al Hasani K. P. M. Fernando                                                   | Sri Lanka   |
| Numerical modeling of modular oscillating water columns with multi-chamber configuration for sustainable wave energy conversion<br>Jeevan Kumar U and Muni Reddy M.G                            | India       |
| Hybrid wind wave energy systems<br>Shadhin Sudhershan, Latika Sharma Srineash V K                                                                                                               | India       |
| A Novel Axisymmetric Wave Energy Converter: Resonance and Parametric Studies<br>Debnail Nag Chowdhury, Dr. Swapnadip De Chowdhury, Dr. Ritwik Ghoshal                                           | India       |
| Experimental investigation of a twin-chambered wide-inlet L-shaped oscillating water column integrated with floating breakwaters<br>T A Harikrishnan, Manu, Subba Rao                           | India       |
| Hydrodynamic Analysis of Bottom-Hinged Flap-Type Surge Wave Energy Converter<br>E s v Sai Sravan, T Nasar, Vishwanath K                                                                         | India       |
| Multi-Criteria Site Selection for Wave Energy Converter Deployment along the Indian Coast<br>Lincy Jancy, Vijay KG, K. Murali                                                                   | India       |
| Vortex-induced vibration analysis of cold-water pipelines for OTEC systems<br>Swethasri G, Abhijeet Sajjan, Anil Kumar                                                                          | India       |
| Revetment upgrade for cyclonic resilience using Cubipod in single layer<br>Tim Schmidt , Ali Elbrolsy , Benjamin Luke Hall                                                                      | Netherlands |
| Tsunami-like bore interaction with buffer blocks:energy dissipation across varying flume widths and lateral spacing of blocks<br>N. Sakthi Vasanth, V. Sriram, V. Sundar, H. Schüttrumpf        | India       |
| Sustainable stabilization of a migrating lagoon inlet in West Africa<br>A. Rahman, G. Brocca, T. Saville, R. R. Mahajan                                                                         | Italy       |
| Transient maximum scour and overturning failure of seawalls under tsunami overflow: new experimental insights from dual-scale flume studies<br>N.Balasubramaniam, J.Bricker, R.Jayaratne, T.Kim | Srilanka    |

## SHORT SEA SHIPPING, FERRIES, RORO, FISHING PORTS, COASTAL AND INLAND NAVIGATION:

| TITLE                                                                                                                                                                                                                        | COUNTRY |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Mathematical model studies of Navigational lock at Farakka, West Bengal, India<br>Sundaravadivelu Ranganathan, Sakthivel Sundaravadivelu, Swaminathan Gopalakrishnan,Aravindan Paulraj, Sundaresan Murali, M V Ramana Murthy | India   |
| Development of a navigational channel at Pamban: Enhancing coastal connectivity and short sea shipping between the East and West Coasts of India<br>Guru Prasath Jayadevan, P. Chandramohan                                  | India   |

## SHORT SEA SHIPPING, FERRIES, RORO, FISHING PORTS, COASTAL AND INLAND NAVIGATION:

| TITLE                                                                                                                                                                                  | COUNTRY |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Tug assisted manoeuvring of bulk carrier<br>Sundaravadivelu Ranganathan, Sakthivel Sundaravadivelu,MD Tabish Hayat ,Sheeja Janardhanan, Avinash Godey, Viswanathan S, Manivannan J     | India   |
| Passing ships interaction in very restricted waters design, safety, training and real-time control<br>Jose R. Iribarren, Sonia Heras, Raul Atienza, Victoria Martinez, Juan C. Carmona | Spain   |
| Design of slipway and travel lift for operation in all tides<br>Sundaravadivelu Ranganathan, Sakthivel Sundaravadivelu, Raja Rajan Soundararaju                                        | India   |
| River restoration to coastal health management: a decision support for inland waterway systems<br>Anishkumar M.N., Anagha R H , C.G. Nandakumar, K. Sivaprasad                         | India   |
| Development of a minor fishing Harbor At Cutbona, Goa, India incorporating a training wall at the mouth of River Sal.<br>D.K.Maiti , V.Sundar                                          | India   |
| Evolving the layout of a fish landing center using mathematical model.<br>H C Patil, Dr. M Phani Kumar                                                                                 | India   |
| A port-centered framework for managing underwater radiated noise from shipping in the Persian Gulf<br>Ali Azimi                                                                        | Iran    |

## PORT ENGINEERING

| TITLE                                                                                                                                                                                                         | COUNTRY     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| The ACCROBERMTM I toe unit: physical model testing, finite element analysis and first site implementation<br>F. Rocai, F. Galante, C. Giraudel, K. Karra, N. Kaushik, R. Krishna, A. Majumder, S.A.Sannasiraj | France      |
| Numerical study of the breakwater on the soft soil<br>Ashutosh Choudhary, Nilanjan Saha, K. Perumalsamy                                                                                                       | India       |
| Physical Modeling of the breakwater of Genaveh Port against Northwest waves in the Persian Gulf<br>A. Panahi                                                                                                  | Iran        |
| Physical Model studies for the design of a breakwater: a case study<br>B R Tayade, Praveen K M1 , G R Pardeshi, Deepak Sharma                                                                                 | India       |
| Stability Analysis and Refurbishment of Damaged Breakwater Structures<br>S. A. Sannasiraj, S. Tharaniraja, S. Vasanthakumar                                                                                   | India       |
| Completion of partly completed breakwater – Dabhol<br>Rakesh Kadarkarai J, Mahalakshmi Ganesan, Vasantha Krishnan S                                                                                           | India       |
| Real-time quality control of breakwater concrete armor unit placement<br>Steven LE BARS                                                                                                                       | France      |
| Advancing Fender Engineering: From Rated Performance (WG33) to Base Performance and Performance Correction Methodologies in PIANC WG211<br>M. Gaal, M. Kumar                                                  | Netherlands |
| PIANC WG211 and Indian Fender Design standards compared<br>K.Shah, M. Gaal                                                                                                                                    | India       |

## PORT ENGINEERING

| TITLE                                                                                                                                                                                                                                                               | COUNTRY              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Importance of Fender Testing under Controlled Conditions<br>Harsh Y Valera                                                                                                                                                                                          | India                |
| Simplified Berthing Energy calculation as per PIANC 2024: WG 211<br>Sukhvinder Singh Saund                                                                                                                                                                          | India                |
| Deepening of berth by providing pile sheet pile wall<br>Sundaravadivelu Ranganathan, Sakthivel Sundaravadivelu Nanthini Muralidass                                                                                                                                  | India                |
| Mathematical Model Studies for Development of Berthing Facilities at Sagar Island in Hugli Estuary- A case study<br>V. K. Shukla, Vijay D. Kokane                                                                                                                   | India                |
| Design of insitu concrete mattress for berth scour protection<br>M.G.Hawkswood, G.Hawkswood and M.Furborough                                                                                                                                                        | United Kingdom       |
| BIM implementation in the port sector: An application to floating concrete pontoons<br>F.Sarrias, E.Coloma, P.Gordo-Gregorio                                                                                                                                        | Spain                |
| Application of Building Information Modeling to HSE management during the decommissioning and recycling of offshore platforms at port facilities<br>M.Capella, R.M.Moreira, N.N.Pereira                                                                             | Brazil               |
| Design and interdisciplinary coordination to develop a 4D model for an LNG Jetty project<br>V. Krishnan, J.M.R. Schmidt                                                                                                                                             | United Arab Emirates |
| Construction of a New Dry Dock by L&T Construction<br>Ravikiran CH, Vasantha Krishnan S                                                                                                                                                                             | India                |
| Construction and Dewatering of Temporary Dyke, KKNPPP HTS<br>Rakesh Kadarkarai J, Vasantha Krishnan S, Mahalakshmi Ganesan                                                                                                                                          | India                |
| Stability Assessment of Seawater Intake Structures using Rock Anchors in Remote Islands of India: A Case Study<br>Manoj Kumar Manne, Balaji Ramakrishnan, JaiVignesh B, Mullai Vendhan Kuppuswamy, Phani Kumar SVS                                                  | India                |
| Challenges in establishment of seawater intake caisson at near shore region<br>Arthi S, Saravanan R, Vijaya Ravichandran, Balaji Ramakrishnan, Sundaravadivelu R                                                                                                    | India                |
| Planning of seawater intakes and marine outfalls in Indian Coastal Waters<br>P. Chandramohan, S. Karthikeyan                                                                                                                                                        | India                |
| Numerical modelling of settlement and stability assessment for reef ball foundations<br>Preethi Sekar*, M V Ramana Murthy, Roop Singh Kankara                                                                                                                       | India                |
| Challenges of the seabed geological features for port development along Gujarat Coast in India<br>Terry Machado, A. Baskaran, J. Vinothkumar                                                                                                                        | India                |
| Offshore reclamation development at Vadhvan near-shore area<br>Pinaki Ranjan Adak                                                                                                                                                                                   | India                |
| First- and Second-Order Responses in Floating Docks and Spar Foundations for Offshore Wind Turbine Installation<br>Soumyashree Pani, Nilanjan Saha, Sundaravadivelu R                                                                                               | India                |
| Structural response analysis of jack-up platforms under Extreme Wave Forces<br>Rosmy Cheriyan, Balaji Ramakrishnan, Krishna M, K Mullai Vendhan, S.V.S Phani Kumar                                                                                                  | India                |
| Life-cycle assessment and condition monitoring of marine reinforced concrete pile structures subjected to depth-dependent corrosion and vessel impact<br>Rishwanth Darun A S, Dimitrios Chronopoulos, Xuemei Liu, Dirk Vandepitte Konstantinos Gryllias Lihai Zhang | Australia            |
| Sustainable port pavements: Use of SFRC (Steel fibre reinforced concrete) for sustainable Concrete Pavements<br>Arun Kamtekar                                                                                                                                       | India                |

DREDGING AND DISPOSAL MANAGEMENT ISSUES

| TITLE                                                                                                                                                                                                 | COUNTRY   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| A dewatered “closure-and-excavation” technique for rapid and precise dredging of tidal creeks and inlet channels The case of Nahr-e Qasr port (Khuzestan, Iran)<br>Omid Bahmani, Sima Ahmadi          | Iran      |
| Navigation channel capacity assessment and dredge optimization in ports affected by strong swells<br>R. Kazeroni, B. Chok, A. Chok, F. Gouaud, M. Oliver                                              | Australia |
| Machine learning for hydrographic data in dredging and channel management: Anzali port case study<br>Hannaneh Rezaei                                                                                  | Iran      |
| Depth-Dependent Modelling of Propeller Wash–Induced Sediment Redistribution in Ports<br>B. Zhao, J.W. Er, J. Mamta, J.Jensen                                                                          | Singapore |
| Quantifying Bed Load Transport in a River Meander: Hydrodynamic and Laboratory Based Validation of Empirical Models<br>Charuni I. Madushani, Elnaz Naghibi, Ravindra Jayaratne, Yan Zhou, Xiaoyan Wei | Sri Lanka |
| Application of a dredged trench to influence shoreline longshore sediment transport<br>D.Habib, F.Ciardulli, M.Oliveira, J.Walker                                                                     | Egypt     |
| Assessment of siltation processes in the berthing zone of valiyazheekkal fishing jetty using MIKE 21<br>K. C. Sradha, A. S. Kiran, T. Sireesha, R. Vijaya, R. Balaji                                  | India     |
| Investigation on Sedimentation Mechanism in Matarbari Port in Bangladesh<br>S. Sato, M. Harabe, D. M. S. Nazir, K. Miyake                                                                             | Japan     |
| Three-dimensional modeling of density-driven flow and fluid mud for evaluating port siltation and its countermeasures<br>P. Chatanantavet, N. Ono                                                     | Japan     |

COASTAL ZONE AND COASTAL RISK MANAGEMENT

| TITLE                                                                                                                                                                                                        | COUNTRY     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Extreme wave analysis and return period assessment for coastal risk management in the eastern Mediterranean basin<br>H. Zaki, E.R. Tolba, E. M. Gala                                                         | Egypt       |
| Probabilistic Assessment of Tropical Cyclone–Driven Coastal Boundary Conditions<br>A. Khan, A. Dastgheib, J. Reyns                                                                                           | Netherlands |
| Numerical modelling of cyclone driven hydrodynamics in the Arabian Sea using Mike21/3<br>S.M.Hewavidana, I.Abeygoonasekara, K.M.Fernando, D..L.Ranasinghe                                                    | Sri Lanka   |
| Assessment of flood inundation impact due to the deep sea port on open coast under cyclonic events using Hydrodynamic Modeling and statistical analysis<br>A.Basu*, M.M.Vaidya, K.R.Karambelkar, A.A.Purohit | India       |
| Tropical Cyclone Ditwah: Characteristics and Impacts of a Severe Event in Sri Lanka<br>Charitha Pattiaratchi, Sarath Wijeratne                                                                               | Australia   |
| Investigation of Sand Spit Morphodynamics during Storm Surge Events at the Southern Part of Shah Porir DWIP<br>MD. Mahdi Hasan Saikot, Mohammad Asad Hussain                                                 | Bangladesh  |
| Shoreline changes in response to nature and manmade intervention Along the coastal stretch of Chennai, India<br>S. Bala Rathina kumar, S.A. Sannasiraj, V. Sundar, S. Tharaniraja                            | India       |

## COASTAL ZONE AND COASTAL RISK MANAGEMENT

| TITLE                                                                                                                                                                                                                  | COUNTRY     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Assessment of shoreline change along the coast of Kerala, India.<br>S. Renu *, R. Arunkumar, S.K. Pramada                                                                                                              | India       |
| Analysis of Coastal Morphodynamic evolution in river confluence along Andhra Coast using DSAS application<br>Sandeep Reddy.G.B.R, Muni Reddy.M.G, Kishore.P                                                            | India       |
| Overview of the Maharashtra Sustainable Climate Resilient Coastal Protection and Management Project and of its Nature-based-Solutions interventions<br>S. Tecchiato, A. Michels, A. Giardino, P. K. Pandey, J. Mathew. | France      |
| Nouakchott coastal resilience: Capitalizing on local opportunities to optimize the coastal development design<br>Theodore MICHEL, Laure HERBERT, Adrien LEMAITRE                                                       | France      |
| Role of coastal engineering in land use planning in small island developing states: a case study from the Maldives<br>Y.V. Dolaman, K.C. Keskin, M. Ozcan                                                              | Turkey      |
| Economically optimal set-back lines for risk informed coastal zone management: a demonstration in Sri Lanka<br>R. Ranasinghe, A. Dastgheib, R. Jongejan, M. Wickramanayake                                             | Netherlands |
| Capacity development in coastal engineering for disaster resiliency in the Philippines<br>D.Tsujio, T.Nagasawa, R.G.Castillo                                                                                           | Japan       |
| Tsunami hazard assessment for the northern coast of Bali: scenario-based simulations of historical events<br>Aswandatu Putra Inderajao, Takahito Mikami, Miguel Esteban                                                | Japan       |
| Future Projection of Coastal Inundation due to Sea Level Rise along the Coastline of Chennai<br>Naren A, V. K. Shukla, B. L. Meena                                                                                     | India       |
| Sustainable inlet management and shore protection studies of Neyyar river inlet, Pozhiyoor, Kerala<br>S. Ramkumar, A. S. Kiran, R. Vijaya, T. Sireesha, I. M. Azharuddin, R. Balaji                                    | India       |
| Evaluation of sustainable inlet management options for Puthuponnani estuary<br>A. S. Kiran, T Lokesh, T. Sireesha, R. Vijaya, R. Balaji                                                                                | India       |
| Risk identification framework for breakwater construction<br>Shabana Manzoor, Dr Arunraj E, Dr Arun Chandramohan                                                                                                       | India       |
| Tidal Dynamics and Sea Level Rise Mitigation for Chennai Coast, TamilNadu, India<br>Sudharson G, Krishnaveni M                                                                                                         | India       |

## CLIMATE CHANGE AND PORT & COASTAL ENVIRONMENTAL ISSUES

| TITLE                                                                                                                                                         | COUNTRY   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Sensitivity Experiments Using an OGCM-PGW Framework for Improving Arctic Sea-Ice Projections<br>Y. OGURA, R. NAKAMURA                                         | Japan     |
| Seasonal and interannual analysis of wave energy along the Southwestern coast of Sri lanka under climate change scenarios<br>P.H.T.D. Heshani, D.P.C. Laknath | Sri Lanka |
| A assessment of climate change impacts on long-term metocean conditions along the Southern coast of Oman<br>S.S.D.S.Gunasekara, D.P.C.Laknath, I.G.I.K.Kumara | Sri Lanka |
| Assessment of climate change impacts on waterfront facilities at Jaigad Port, India<br>Maneesha Sebastian, K. R. Karambelkar, M. M. Vaidya, A. A. Purohit     | India     |

## CLIMATE CHANGE AND PORT & COASTAL ENVIRONMENTAL ISSUES

| TITLE                                                                                                                                                                                                                                                                                                                        | COUNTRY |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Climate-Ready Ports: The role of engineering companies from design to operation<br>N. Elango, R. De Sutter , C. Lopez , M. Nazarali, D.S.Ch.Praveen, B. Proenca , I. Rocabado, G. Villa-Cox                                                                                                                                  | Belgium |
| A Replicable Framework: A Diagnostic Approach to Formulating Strategies for the Development of Climate-Resilient Ports<br>Shashank Pal, Agnihotri Mangesh Shyam, Alexandria Norris Moore, Avani Kant, Chu Thuy Quynh Anh, Ennarasu Karunesan, Justin Cross, Karra Vivek Naga Vardhan, Neha Nagpal,Sandip Kundu, Surbhi Goyal | India   |
| Evidence on Climate Policy and Institutional Barriers in Greek Ports<br>Aikaterini Karditsa, Michael Tsatsaronis, Lykourgos Kourkouvelas, George Vaggelas                                                                                                                                                                    | Greece  |
| Low-carbon ports and their role in climate change mitigation:strategic insights for Iranian commercial ports<br>Ali Azimi, Shayan Kouchakian Sabour                                                                                                                                                                          | Iran    |
| Environmental and climate performance of LNG and methanol as marine fuels: a life cycle perspective with port and coastal relevance<br>Mehrnoosh Darya, Ismaeel Makizadeh                                                                                                                                                    | Iran    |
| Mobile shore power systems for efficient and sustainable port operations<br>L. Kaste, T. Kollmorgen                                                                                                                                                                                                                          | Germany |
| Water-Energy Nexus as part of the Integrated Coastal Zone Management in Egypt<br>Ahmed Balah                                                                                                                                                                                                                                 | Egypt   |
| Offshore observatory structures for climate change monitoring: design and installation in Indian seas<br>Pathak Abhishek Kumar S, Balaji Ramakrishnan, Dhinesh Ganapathy, Mullai Vendhan Kuppuswamy, Phani Kumar SVS                                                                                                         | India   |
| Assessing hybrid wave-solar renewable potential for auxiliary port and navigation power along the Makran coast using ERA5,WaveWatch III, and in-situ observations<br>Ramin Meschian, Omid Bahmani                                                                                                                            | Iran    |
| Urban runoff as a main source of macro and mesoplastics: A threat to the Persian Gulf<br>MohammadAmin Azizi, Ali Asghar Ebrahimi, Mohammad Hassan Ehrampoush, Mehdi Mokhtari, Hossein Fallahzadeh, Gabriel E. De-la-Torre, Sina Dobaradaran                                                                                  | Iran    |
| Shoreline weathering and chemical release from HDPE fishing net microfibers in tropical estuarine conditions<br>I. P. Masilamani, C. P. Devatha, A. K. Thalla                                                                                                                                                                | India   |
| Chemical fingerprinting of petroleum pollution in the port of Anzali: Southwest Caspian Sea<br>Ali Azimi, Alireza Riahi Bakhtiari, Roma Tauler                                                                                                                                                                               | Iran    |

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