

18th-19th of April 2019, Selçuk, İzmir - TURKEY

The Abstract Book of GMC '19

GMC'19 PROGRAMME & CONTENTS

18 APRIL 2019 - Thursday

REGISTRATION 09:00 - 10:00

MEETING HALL (A) GÜNDÜZ AYBAY

MEETING HALL (B) NECMETTIN AKTEN

10:00 -11:00

Opening Speeches

11:00-12:00

Keynote Speaker

Prof. Dr. George THEOCHARIDIS

Keynote Speaker

Prof. Dr. Osman TURAN

Lunch Break 12:00 - 13:00



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I. Sessions

MEETING HALL (A) GÜNDÜZ AYBAY		MEETING HALL (B) NECMETTIN AKTEN			
	13:00 - 14:15		13:00 - 14:15		
	ALTERNATIVE MARINE FUELS & MARITIME ENERGY EFFICIENCY	BI	EST PRACTICES & NEW CONCEPTS IN MARITIME TRANSPORTATION		
	Moderator: Prof. Dr. Oğuz Salim SÖĞÜT		Moderator: Prof. Dr. George THEOCHARIDIS		
L.	Investigation of Suitable Savonius Wind Turbines for The Black Sea Coasts by Using Computational Fluid Dynamics (Page:1) Mehmet Zeki ŞENER, Ercan KÖSE	1.	Classification Analysis for Studied Fields in Maritime (Page:6) Leyla TAVACIOĞLU, Umut TAÇ, Özge ESKİ, Neslihan GÖKMEN		
2.	Producing Electricity Power from Ship Exhaust Gases: A Cost Analysis Application on a Ro-Ro Cargo Ship (Page:2) Selim BAŞTÜRK, Sercan EROL	2.	Preparing Data Set for Deep Learning Based Ship Detection (Page:44) Veysel GÖKÇEK, Gazi KOÇAK		
3.	Experimental Investigation of using Emulsified Fuel in a Diesel Engine on Performance and NOx Emissions (Page:3) Fatih OKUMUŞ, Görkem KÖKKÜLÜNK, Cenk KAYA, Aykut SAFA	3.	Determining Maritime Educational Needs for Energy Efficiency Within the Scope of MarEd Project (Erasmus+Programme) (Page:9) Özcan ARSLAN, Elif Bal BEŞİKÇİ, Esma UFLAZ		
•	Investigation of the Effects of Marine Fuels in Lubrication Oil on The Friction of Piston Ring-Cylider Liner in Marine Diesel Engines (Page:4). - Olcay SERT, Zafer AYDIN, Görkem KÖKKÜLÜNK	4.	Evaluating Efficiency Improvement Potential of an Organic Ranking Cycle for a Marine Diesel Power Plant by Applying Advanced Exergy Analysis (Page:17). - Turgay KÖROĞLU, Oguz Salim SÖĞÜT		
5.	Environmental Impacts of the Exhaust Gases from Ships (Page:5) Muhammet BORAN	5.	Evaluation of The Maritime 4.0 Using The AHP Method (Page:15) Umur BUCAK, Mehmet Fatih DINÇER, Hakan DEMİREL		



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II. Sessions

MEETING HALL (A) GÜNDÜZ AYBAY

MEETING HALL (B) NECMETTIN AKTEN

14:30 - 15:30

HUMAN FACTOR IN MARITIME DOMAIN

Moderator: Prof. Dr. Osman TURAN

- **1.** An Extensive Research into Possibility of a Human-Centered Safety System for Fatigue Detection at Sea (Page:11).
 - Barış ÖZSEVER, Leyla TAVACIOĞLU
- **2.** A Survey for Analysing Factors that Affecting Marine Service and Seafarers' Job Satisfaction: Case Study for Turkey (Page:12).
 - Umut YILDIRIM, Serdar YILDIZ, Özkan UĞURLU, Burak VARDAR
- **3.** A Compliance Analysis of Marine Engineering Cadets' Practices on Maintenance and Repair of Shipboard Machinery/Equipment Tasks & Duties Within On-Board Training Book Records (Page:13).
 - Çağatay KANDEMİR, Mehmet Oğuzhan AKALIN, Metin ÇELİK
- **4.** The Effect of Stress' on Seafarers' Job Performance (Page:14).
 - Müge BÜBER, Nergis ÖZISPA

Coffee Break 15:30 - 15:45



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III. Sessions

	MEETING HALL (A) GÜNDÜZ AYBAY		MEETING HALL (B) NECMETTIN AKTEN		
	15:45 - 16:45		15:45 - 16:45		
	MARITIME TRADE, LOGISTICS & PORT OPERATIONS		MARITIME LAW, GOVERNANCE & MARITIME SECURITY		
	Moderator: Prof. Dr. Muhammed BORAN		Moderator: Prof. Dr. Leyla TAVACIOĞLU		
1.	The Components of the Port Hinterland Performance: A Literature Review Study (Page:19) Umur BUCAK, Soner ESMER	1.	The Effect of Piracy on Maritime Transportation (Page:23) Cemre Akyurt, Alper KILIÇ		
2.	Optimal use of port cranes to maintain the environment of port cities (Page:20). - Akram ELENTABLY	2.	Analyzing Organizational Cultere for Innovation Performance in Maritime Industry Pelin BOLAT, Gizem YÜKSEL, Fırat BOLAT, Tuğsan İşiaçık ÇOLAK		
3.	Statistical Analysis of Tanker Inspection Reports (Page:21) Elif Bal BEŞİKÇİ, Özcan ARSLAN, Aydın ŞIHMANTEPE, Hatice UNCUOĞLU	3.	Impact Analysis for Explosion Scenario of a Sailing Gas Tanker (Page:25) Ali Cem KUZU		
4.	A Study on Turkish Maritime Trade Statistics (Page:22) Alper KILIÇ	4.	Are The Ships Fully Secured Against the Cyber-Attacks? (Page:26) Burak KÖSEOĞLU, Cenk ŞAKAR, Müge BÜBER, Ali Cemal TÖZ		
	Coffee Break 16:45 - 17:00				



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	MEETING HALL (A) GÜNDÜZ AYBAY		MEETING HALL (B) NECMETTİN AKTEN		
	17:00 - 18:00		17:00 - 18:00		
	MARITIME SAFETY		MARITIME LAW, GOVERNANCE & MARITIME SECURITY		
	Moderator: Prof. Dr. Selçuk NAS		Moderator: Assoc. Prof. Dr. Alper KILIÇ		
1.	Maritime Investigation Reports Involving Man-Over-Board (MOB) Casualties: A Methodology for Evaluation Process (Page:27). - Orhan GONEL, İsmail ÇİÇEK	1.	Maritime Security in The Framework of NATO Security Architecture (Page:30) Pelin BOLAT, Savaş Rüştü BİÇER		
2.	Investigation of Marine Accidents Under the HFACS-PV Structure (Page:28) Özkan UĞURLU, Serdar YILDIZ	2.	Evaluating unmanned vessel through regulatory framework (Page:31) İbrahim COŞKUN, Ümit Gürkal EGEMEN, Fırat BOLAT		
3.	Case Study on Marine Accidents Occurred in VTS Areas (Page:29) Serdar YILDIZ, Burak VARDAR, Özkan UĞURLU, Umut YILDIRIM	3.	Use of Unmanned Aerial Vehicles in Maritime Search and Rescue Operations (Page:32) Turuğsan OLGAÇ, Ali Cemal TÖZ		
4.	The Relationship Between the Amount of Container Cargo Handled in Turkey with The Number of Turkish-Flagged Container Vessel (Page:56). - Davut PEHLİVAN, Gizem YÜKSEL	4.	Energy Efficiency and Environmental Aspects of Refrigerated Containers in Maritime Transport Towards Intelligent Systems (Page:33) Turgay KÖROĞLU		

Welcome Cocktail 19:30



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I. Sessions

MEETING HALL (A) GÜNDÜZ AYBAY

MEETING HALL (B) NECMETTIN AKTEN

09:00 - 10:00

09:00 - 10:00

ALTERNATIVE MARINE FUELS & MARITIME ENERGY EFFICIENCY

Moderator: Asst. Prof. Görkem KÖKKÜLÜNK

- **1.** Investigation of Issues in Tank Cleaning Operations and a Proposal of an Automated System for Improvement in Tank Cleaning System (Page:34).
 - Taylan GÜLER, İsmail ÇİÇEK, Onural Alper SAHİN
- **2.** Investigation of the Improvement of the Negative Effects of Diesel Fuel Mixed with Lubricating Oil by Tall Oil Acid in Ship Diesel Generators (Page:36).
 - Cenk KAYA, Olcay SERT, Hüseyin ELÇİÇEK, Zafer AYDIN, Görkem KÖKKÜLÜNK
- **3.** Criteria Comparison of Companies Which Have Different Tonnage of Vessels for BWTS Selection (Page:37).
 - Çağlayan TOP, Gül Emecan KARA

Coffee Break 10:00 - 10:15



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II. Session

	MEETING HALL (A) GÜNDÜZ AYBAY		MEETING HALL (B) NECMETTİN AKTEN	
	10:15 - 11:15		10:15 - 11:15	
	HUMAN FACTOR IN MARITIME DOMAIN		BEST PRACTICES & NEW CONCEPTS IN MARITIME TRANSPORTATION	
	Moderator: Assoc. Prof. Dr. Yusuf ZORBA		Moderator: Prof. Dr. Özcan ARSLAN	
1.	A Comprehensive Study on Assessment of Safety Climate Based on Theory of Planned Behavior in Maritime Domain (Page:39) Pelin ERDEM, Leyla TAVACIOĞLU	1.	The Analysis of Endorsement and Recognition Problem for Turkish Marine Officers' Certificate of Competencies (CoC) (Page:43). - Tuğfan ŞAHİN, Pelin BOLAT	
2.	A Review on Practicality of Cognitive Performance Tests in Maritime Officer Selection (Page:40). - Mesut Can KÖSEOĞLU, Leyla TAVACIOĞLU, Umut TAÇ, Neslihan GÖKMEN, Özge ESKİ	2.	A Study for Educational Institutions in Seafarers Training: Seafarer Trainers (Page:45). - Orkun Burak ÖZTÜRK, İdris TURNA, Ahmet Emre PİRİM	
3.	Investigation of Seafarer Employment for Turkey (Page:41) Hüsnü ÖĞE, Alper KILIÇ	3.	Towards Introducing Knowledge Management Concept to Maritime Education & Training (Page:7) Amr Moneer IBRAHIM, Saleh Mesbah ELKAFFAS	
4.	Future of Vessel Traffic Service as A Socio Technical System and Simulation-Tools (Page:38) Berat DAĞKIRAN, Pelin BOLAT	4.	Updating Issuse in STCW (Page:42) Aynur MAHARRAMOVA	
	Coffee Break 11:15 - 11:30			



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	11:30 - 12:45		11:30 - 12:45		
	NAVAL ARCHITECTURE		MARITIME TRANSPORTATION MANAGEMENT		
	Moderator: Prof. Dr. Oğuz Salim SÖĞÜT		Moderator: Prof. Dr. Hüseyin YILMAZ		
1.	Investigation of Bilge System Assembly Operations of the Black Sea Type Fishing Vessels (Page:46). - Abdullah TÜRK, Murat ÖZKÖK	1.	Determination of Evaluation Criteria for the New Traffic Separation Schemes and Implementation for the 1915 Çanakkale Bridge (Page:51) Yusuf ZORBA, Selçuk NAS		
2.	Comparison of Damage Stability in Tankers for Different Subdivision (Page:47) Kubilay BAYRAMOĞLU, Tolga BAYRAMOĞLU, İsmail BAYER, Hakan AKYILDIZ	2.	Analysis of Marine Traffic by Simulation Method in Liquid Bulk Terminals (Page:52). - Emin Deniz ÖZKAN, Umay Uzunoğlu KOÇER, Selçuk NAS, Özgür İŞLEK, Emel TÜZGEN, Anıl DOĞAN		
3.	Interpretation of Rule-Based Ship Structural Element Sizing by Finite Element Analysis (Page:49) Hasan ÖLMEZ, Harun ATİK	3.	Application of Queuing Theory to Ships Passing Through Turkish Straits (Page:53). - Ömer Can KARAKURT, Alper KILIÇ		
4.	The Prediction of Ship Shaft Bearing Gap By Artificial Neural Networks and Drydocking Maintenance Planning (Page:50). - Soykan KALENDER, Aykut SAFA	4.	A Review of Agent-Based Simulation in Maritime Transport (Page:54) Burcu ÇELİK, Yusuf ZORBA		
		5.	An Application of Agent-Based Modeling for the Maritime Transportation (Page:55). - Yusuf ZORBA		
	Lunch Break 12:45 - 14:00				



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	14:00 - 15:15		14:00 - 15:15		
	MARITIME TRADE, LOGISTICS & PORT OPERATIONS		MARITIME TRANSPORTATION MANAGEMENT		
	Moderator: Asst. Prof. Pelin BOLAT		Moderator: Asst. Prof. Firat BOLAT		
1.	Industry 4.0, Industrial Internet of Things and Shipping 4.0 Epoch: Tasks, Challenges and Problems (Page:16). - Vladlen SHAPO	1.	Analysis of Marine Traffic Density Using AIS Data: An Application in the Iskenderun Bay (Page:61) Burak Kundakçı, SELÇUK NAS		
2.	A Review of International Standards of Environmental Noise and Its Adverse Effects on Port Workers (Page:57). - Ece ÖZSEVER, Aydın ŞIHMANTEPE	2.	The Effects of Electronic Navigation Devices on Marine Accident Occurrences (Page:62). - Mehmet KAPTAN, Serdar YILDIZ, Özkan UĞURLU, Umut YILDIRIM		
3.	Technological Advancements and Innovation in Logistics Industry: Perspectives of Maritime Faculty Students (Page:58). - Nazlı Gülfem GİDENER ÖZAYDIN, Cansu YILDIRIM	3.	Shipmaster Evaluation System for the Safety of Navigation and Fleet Management (Page:63). - Yusuf ZORBA, Selçuk NAS		
4.	The Overview of the Newly Opened Arctic Routes in Terms of World Maritime Shipping (Page:59). - Fatih AKKUŞ, Ercan AKAN, Murat YILDIZ	4.	Examination of Ships Detentions by Years in Port State Controls (Page:64) Gülden ORAL, Alper KILIÇ		
5.	A Brief Comparison of International and National Regulations on Preparedness Response and Co-Operation to Pollution Incidents by Oil, HNS: Status of Pollution Response Organization (Page:60). - Cihat AŞAN, Aydın ŞIHMANTEPE	5.	Training and Assessing Software in MET (Page:8.) -Valentin V. TARASOV, Anatoliy P. GERASIMOV, Aleksei STRELKOV		
	Best Paper Awards & Closing 16:00				