



Nikola Račić

Datum rođenja: 23/02/1968 | **Državljanstvo:** hrvatsko | **Spol:** Muško |

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Adresa: Ruđera Boškovića 37, 21000, Split, Hrvatska (Službena)

O MENI

Rad u nastavi na svim razinama, mentoriranje doktoranada, znanstveno istraživanje osnovano na numeričkim i eksperimentalnim analizama procesa u motorima s unutarnjim izgaranjem kao i ostalih elemenata brodskih energetske sustava - posebno s aspekta emisija ispušnih plinova i energetske učinkovitosti.

RADNO ISKUSTVO

01/10/2021 – TRENUTAČNO Split, Hrvatska

REDOVITI PROFESOR U TRAJNOM IZBORU, ZNANSTVENI SAVJETNIK U TRAJNOM IZBORU SVEUČILIŠTE U SPLITU - POMORSKI FAKULTET

Predstojnik zavoda za brodogrobarstvo/Ravnatelj centra za praktičnu nastavu/Redovni profesor u trajnom izboru iz područja tehničkih znanosti/ Znanstveni savjetnik u trajnom zvanju

<https://www.pfst.unist.hr/hr/o-fakultetu-hr/ustroj/zavodi-i-katedre>; <https://www.pfst.unist.hr/hr/o-fakultetu-hr/ustroj/tijela-fakulteta>

- Redoviti profesor/znanstveni savjetnik u trajnom izboru u znanstvenom području tehničkih znanosti, polju strojarstva, grani brodsko strojarstvo
- Nastavnik na kolegijima : Prediplomski studij: Brodski motori, Brodski energetske sustavi, Brodski generatori pare i toplinske turbine.
- Nastavnik na doktorskom studiju: Modeliranje i simuliranje procesa motora SUI.

01/10/2018 – 01/06/2019 Split, Hrvatska

PRODEKAN ZA POSLOVODSTVO/REDOVNI PROFESOR IZ PODRUČJA TEHNIČKIH ZNANOSTI SVEUČILIŠTE U SPLITU - POMORSKI FAKULTET

- Član uprave Fakulteta, prodekan za posloводство.
- Povjerenik za studentska pitanja.
- Član nakladničkog savjeta sveučilišnih novina "Universitas".
- Redoviti profesor u znanstvenom području tehničkih znanosti, polju strojarstva, grani brodsko strojarstvo
- Nastavnik na kolegijima : Prediplomski studij: Brodski motori, Brodski energetske sustavi, Brodski generatori pare i toplinske turbine, diplomski studij: Energetske sustavi u pomorstvu, Brodski prekrcajni sustavi.
- Nastavnik na doktorskom studiju: Modeliranje i simuliranje procesa motora SUI.

01/11/2014 – 01/10/2018 Split, Hrvatska

DEKAN/IZVANREDNI PROFESOR IZ PODRUČJA TEHNIČKIH ZNANOSTI SVEUČILIŠTE U SPLITU - POMORSKI FAKULTET

- Čelnik fakulteta, član Senata Sveučilišta u Splitu.
- Predsjednik Upravnog vijeća Studentskog centra, član Upravnog vijeća Studentskog centra.
- Član nakladničkog savjeta sveučilišnih novina "Universitas".
- Izvanredni profesor u znanstvenom području tehničkih znanosti, polju strojarstva, grani brodsko strojarstvo
- Nastavnik na kolegijima : Prediplomski studij: Brodski motori, Brodski energetske sustavi, Brodski generatori pare i toplinske turbine, diplomski studij: Energetske sustavi u pomorstvu, Brodski prekrcajni sustavi.
- Nastavnik na doktorskom studiju: Modeliranje i simuliranje procesa motora SUI.

2010 – 2014 Split, Hrvatska

PRODEKAN ZA POSLOVODSTVO/DOCENT IZ PODRUČJA TEHNIČKIH ZNANOSTI SVEUČILIŠTE U SPLITU - POMORSKI FAKULTET

- Član uprave fakulteta, prodekan za posloводство.
- Sudjelovanje u Savjetu Ministarstva mora - Uprava za pomorstvo, za donošenje izmjena pravilnika vezano za uvođenje Posebnog programa obrazovanja za stjecanje časničkih zvanja NN. 142/10.
- Član je izdavačkog savjeta časopisa Brodogradnja.
- Član je uređivačkog tima u međunarodnom znanstvenom časopisu „Transaction on Maritime Science“
- Docent u znanstvenom području tehničkih znanosti, polju strojarstva, grani brodsko strojarstvo
- Nastavnik na kolegijima : Preddiplomski studij: Brodski motori, Brodski energetske sustavi, Brodski generatori pare i toplinske turbine, diplomski studij: Energetske sustavi u pomorstvu.

2009 – 2010 Split, Hrvatska

VODITELJ STUDIJA BRODOSTROJARSTVA SVEUČILIŠTE U SPLITU - POMORSKI FAKULTET

- Priprema i organizacija nastave na preddiplomskom / diplomskom studiju,
- Priprema i izrada prijedloga studijskog programa i izvedbenog plana nastave u suradnji s nastavnicima odgovarajućeg studija,
- Briga o osiguranju materijalnih i ostalih uvjeta za realizaciju studija.
- Nastavnik na kolegijima : Brodski motori, Brodski energetske sustavi, Brodski generatori pare i toplinske turbine.

2008 – 2009 Split, Hrvatska

PREDSTOJNIK ZAVODA ZA POMORSKU TEHNOLOGIJU JAHTA I MARINA SVEUČILIŠTE U SPLITU - POMORSKI FAKULTET

- Planiranje, ustrojavanje i koordiniranje znanstvenog, nastavnog i stručnog rada zavoda,
- Briga o pokrivenosti nastave izabranim nastavnicima (u stalnom radnom odnosu i vanjskim suradnicima) i njihovom opterećenju u suradnji s prodekanom za nastavu.
- Priprema i sazivanje sjednice zavoda.
- Nastavnik na kolegijima : Sustavi jahti, Brodski motori, Brodski energetske sustavi, Brodski generatori pare i toplinske turbine.

1996 – 2005 Split, Hrvatska

VIŠI PREDAVAČ IZ PODRUČJA TEHNIČKIH ZNANOSTI SVEUČILIŠTE U SPLITU - POMORSKI FAKULTET

- Voditelj izvanrednog studija za pomorce na Pomorskom fakultetu u Splitu (2001-2002).
- Pomoćnik voditelja Centra za izobrazbu pomoraca na Pomorskom fakultetu u Splitu (2000.-2002).
- Predavač iz predmeta Brodski strojni kompleks, područje tehničke znanosti, polje tehnologija prometa i transporta (2000).
- Voditelj Centra za izobrazbu pomoraca na Pomorskom fakultetu u Splitu (1996.-1999.) - sa zadacima organiziranja uvođenja novih tečajeva za pomorce i organiziranja izvođenja postojećih.

1991 – 1996 Split, Hrvatska

ASISTENT SVEUČILIŠTE U SPLITU - POMORSKI FAKULTET

- Asistent iz kolegija Termodinamika.

● **OBRAZOVANJE I OSPOSOBLJAVANJE**

10/10/2008 Rijeka, Hrvatska

DOKTOR TEHNIČKIH ZNANOSTI, ZNANSTVENO POLJE STROJARSTVO, ZNANSTVENA GRANA BRODSKO STROJARSTVO Sveučilište u Rijeci, Tehnički fakultet

Adresa Vukovarska 58, 51000, Rijeka, Hrvatska

1992 – 1998 Rijeka, Hrvatska

MAGISTAR TEHNIČKIH ZNANOSTI, ZNANSTVENO POLJE STROJARSTVO, ZNANSTVENA GRANA BRODSKO STROJARSTVO Sveučilište u Rijeci, Tehnički fakultet

Adresa Vukovarska 58, 51000, Rijeka, Hrvatska

1986 – 1991 Split, Hrvatska

DIPLOMIRANI INŽENJER POMORSKOG PROMETA, BRODOSTROJARSKOG SMJERA Pomorski fakultet u Dubrovniku-studij u Splitu

Adresa Zrinsko-Frankopanska 38, 21000, Split, Hrvatska

● **JEZIČNE VJEŠTINE**

Materinski jezik/jezici: **HRVATSKI**

Drugi jezici:

	RAZUMIJEVANJE		GOVOR		PISANJE
	Slušanje	Čitanje	Govorna produkcija	Govorna interakcija	
ENGLESKI	C1	C1	C1	C1	C1
TALIJANSKI	B1	B1	B1	B1	B1

Razine: A1 i A2: temeljni korisnik; B1 i B2: samostalni korisnik; C1 i C2: iskusni korisnik

● **DIGITALNE VJEŠTINE**

MS Office (Word Excel PowerPoint) | Internet | Komunikacijski programi (Skype Zoom TeamViewer) | Rad na raunalu | Microsoft Word | Dobro sluenje alatima za matematiko modeliranje i simuliranje (Mathematica MATLAB Simulink)

● **VOZAČKA DOZVOLA**

Vozačka dozvola: B

● **PROJEKTI**

2020 – TRENUTAČNO

MZOS-projekt

Suradnik na projektu - HrZZ; IP-2020-02-6249 „Povećanje učinkovitosti, smanjenja štetnih emisija i hibridizacija broskog energetskog sustava“

2014 – 2018

MZOS-projekt

Suradnik na projektu - Greener Approach to Ship Design and Optimal Route Planning (GASDORP) Funding: Croatian Science Foundation (HRZZ-IP-2013-11-8722)

2002 – 2013

MZOS-projekti

Suradnik na istraživačkom projektu br. 0069009, financiranom od strane Ministarstva znanosti, obrazovanja i športa Republike Hrvatske, pod nazivom: Numeričke simulacije i optimizacija dizelskih motora.

2000 – 2002

MZOS-projekt

Suradnik na projektu - br. 355-05-12-01, financiranom od strane Ministarstva znanosti, obrazovanja i športa Republike Hrvatske, pod nazivom: Primjena nautičkog simulatora u obrazovanju pomoraca – organizacijski i ergonomski činioci u funkciji optimalnog upravljanja brodom.

2014 – 2017

Tempus projekt

Suradnik na projektu - TEMPUS "Modernizing and harmonizing maritime education in Montenegro and Albania" MArED

No. 544257-TEMPUS-1-2013-1-ME-TEMPUS-JPCR "Mared".

2013 – 2015

Bilateralni projekt HRVATSKA - CRNA GORA

Suradnik na HRVATSKO-CRNOGORSKOM projektu znanstvene grane brodstrojarstvo: Mogućnost smanjenja emisije onečišćavanja sa brodova u crnogorskom i hrvatskom dijelu Jadrana implementacijom Marpol konvencije Aneksa VI.

● VJEŠTINE UPRAVLJANJA I RUKOVOĐENJA

Zapovjednik jahte 500 BT

● ORGANIZACIJSKE VJEŠTINE

Rukovoditeljske vještine

- Bogato iskustvo u upravljanju i rukovođenju (dekan, predsjednik upravnog vijeća, prodekan za posloводство, predstojnik zavoda, ravnatelj centra).
- Izuzetne organizacijske sposobnosti usavršene tijekom uvođenja studija Vojnog pomorstva, organizacije nastave, vođenja studija, trening centra i centra za praktičnu nastavu te institucionalnog razvijanja suradnje s nastavnim bazama.
- Rukovođenje poslovnim procesima i upravljanje financijama.
- Izuzetno vladanje postupcima upravljanja kvalitetom.
- Razvijanje ideje organiziranja posebnog programa obrazovanja (cjeloživotnog programa) studija za zaposlene pomorce, izrađivanje posebnog plana i programa izvođenja nastave, koji je prilagođen vremenskim mogućnostima zaposlenih pomoraca, a u skladu s programom odobrenim od Nacionalnog vijeća, te posebno usklađen s međunarodnom konvencijom (STCW).

● KOMUNIKACIJSKE I MEĐULJUDSKE VJEŠTINE

Komunikacijske i međuljudske vještine

- Izvrsne komunikacijske vještine stečene prilikom dugogodišnjeg rada u nastavnoj djelatnosti.
- Izvrsne komunikacijske vještine stečene tijekom obnašanja funkcije dekana Pomorskog fakulteta, predsjednika upravnog vijeća SC, odnosno prodekana za posloводство.

● PUBLIKACIJE U ZADNJIH 5 GODINA

Fuel Exergy Based on the Chemical Equilibrium of Combustion Gases

P Jurić, G Radica, N Račić, Z Jurić

10th IMSC-International Maritime Science Conference, 2023, 59-68

Poveznica [https://scholar.google.com/citations?](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:NhqRSupF_l8C)

[view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:NhqRSupF_l8C](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:NhqRSupF_l8C)

Energy Efficiency Analysis of Variable Frequency Driven Centrifugal Pump in Merchant Vessel Cooling System

G Rilje, N Račić, D Đorđe, M Katalinić

10th IMSC-International Maritime Science Conference, 2023, 91-103

Poveznica [https://scholar.google.com/citations?](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:D03iK_w7-QYC)

[view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:D03iK_w7-QYC](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:D03iK_w7-QYC)

Maritime Alternative Fuels and Technologies for Sustainable future

Poveznica https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:a0OBvERweLwC

Determination of Benefits of the Application of CMMS Database Improvement Proposals

Stazić, Ladislav; Račić, Nikola; Stanivuk, Tatjana; Dobrota, Đorđe
Applied sciences (Basel), **13** (2023), 4; 2731, 13 doi:10.3390/app13042731 (međunarodna recenzija, članak, znanstveni)

Poveznica <https://www.mdpi.com/2076-3417/13/4/2731>

Exhaust emissions reduction and fuel consumption from the LNG energy system depending on the ship operating modes

Martinić-Cezar, Siniša; Bratić, Karlo; Jurić, Zdeslav; Račić, Nikola
Pomorstvo (Scientific Journal of Maritime Research), **36(2022)** (2022), 2; 338-346 doi:10.31217/p.36.2.17 (međunarodna recenzija, pregledni rad, znanstveni)

Poveznica https://www.pfri.uniri.hr/web/hr/dokumenti/pomorstvo/2022/12/17_678-Martinić-Cezar.et.al.pdf

Methodology for testing shaft slide bearings of the ship propulsion system

Vetma, Vladimir; Vulić, Nenad; Račić, Nikola
// Conference Proceedings "Mechanical Technologies and Structural Materials - MTSM 2022"/ Split: Croatian Society for Mechanical Technologies, **70** (2022), 161-168, 2022.

Poveznica <https://www.bib.irb.hr/1223705>

Technical and Ecological Aspects of Water-lubricated Stern Tube Bearings

V Pelić, T Mrakovčić, R Radonja, N Račić
Pomorski zbornik, 289-304, Rijeka 2022.

Poveznica https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:YFjsv_pBGBYC

EXPERIMENTAL INVESTIGATION OF MARINE ENGINE EXHAUST EMISSIONS

L Mihanović, M Jelić, G Radica, N Račić
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-14, 2021.

Poveznica https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:hMod-77fHWUC

Developments in Marine Hybrid Propulsion

Jelić, Maro; Radica, Gojmir; Račić, Nikola; Mrzljak, Vedran
6th International Conference on Smart and Sustainable Technologies (SpliTech) 2021 - Proceedings Split: IEEE, 2021. str. 1-6 doi:10.23919/SpliTech52315.2021.9566449

Analysis of two-stroke low speed marine engines operating on alternative fuels

Radica Gojmir, Mrakovčić Tomsilav, Račić Nikola, Jelić Maro, Lalić Branko, Pelić Vladimir, Bratić Karlo, Bulat Domagoj
9th global conference on global warming gcgw 2021- conference proceedings / Zagreb, Croatia, 2021. str. 279-282

EXHAUST EMISSIONS FROM MARINE 4-STROKE ENGINE ON THE THREE FUEL TYPES

Martinić, Siniša-Cezar; Bratić, Karlo; Slišković Merica; Račić Nikola
2ST INTERNATIONAL CONFERENCE OF MARITIME SCIENCE & TECHNOLOGY NAŠE MORE 2021 / Mišković, Dario (ur.).

Marine engines running on hydrogen additive in diesel fuel for emission reduction

Radica, Gojmir; Mrakovčić, Tomislav; Račić, Nikola; Jelić, Maro; Lalić, Branko; Pelić, Vladimir; Bratić, Karlo; Kozina, Ante; Bulat, Domagoj
6th International Conference on Smart and Sustainable Technologies (SpliTech) 2021 - Proceedings
Split: IEEE, 2021. Bol-Brač

An alternative and hybrid propulsion for merchant ships: current state and perspective

Jelić, Maro; Mrzljak, Vedran; Radica, Gojmir; Račić, Nikola
Energy sources part A-recovery utilization and environmental effects, 43 (2021), 1963354, 33 doi:
10.1080/15567036.2021.1963354

Podizanje razine sigurnosti plovidbe upotrebom sustava daljinskog nadzora na objektima pomorske signalizacije

Ivan Karin; Nikola Račić; Ivan Torlak; Tomislav Peša
MIPRO 2021. Opatija, Hrvatska, 2021. str. 136-142

Air Pollutant Emission Measurement

Račić, Nikola; Lalić, Branko; Komar, Ivan; Vidović, Frane; Stazić, Ladislav
Pedagogika (Sofia), 2021 - 6S (2021), 132-140 doi:10.53656/ped21-6s.11air

Fault Tree Analysis as a replacement for manufacturers maintenance instructions

Stazić, Ladislav; Knežević, Vlatko; Račić, Nikola; Orović, Josip
2nd International Conference of Maritime Science & Technology Naše more 2021, Dubrovnik 2021. str.
325-331

Experimental investigation of exhaust emission from marine diesel engines

Mihanovic, Luka; Jelic, Maro; Sumic, Tino; Radica, Gojmir; Racic, Nikola
5th International Conference on Smart and Sustainable Technologies (SpliTech)
Split: IEEE, 2020. str. 1-5 doi:10.23919/splitech49282.2020.9243740

Modelling, performance improvement and emission reduction of large two-stroke diesel engine using multi-zone combustion model

Muše, Ante; Jurić, Zdeslav; Račić, Nikola; Radica, Gojmir
Journal of Thermal Analysis and Calorimetry, 141 (2020), 1; 337-350 doi:10.1007/s10973-020-09321-7

Modeling and optimization of slow speed two stroke marine Diesel engine using Multi zone combustion model

Muše, Ante; Radica, Gojmir; Račić, Nikola; Jurić, Zdeslav
4th International Conference on Smart and Sustainable Technologies (SpliTech)
Bol, Republika Hrvatska: IEEE, 2019. str. 1-5 doi:10.23919/splitech.2019.8782998

Piston ring material in a two-stroke engine which sustains wear due to catalyst fines

Vukičević, Miroslav; Račić, Nikola; Ivošević, Špiro
Brodogradnja, 70 (2019), 2; 155-169 doi:10.21278/brod70208

Cruise ship traffic in the Adriatic Sea: environmental impact

Perić, Tina; Račić, Nikola
8th International Maritime Science Conference (IMSC 2019) Budva, Crna Gora, 2019. str. 49-58

Model vrednovanja onečišćenja mora otpadnim vodama s brodova za kružna putovanja

Perić, Tina; Mihanović, Vice; Račić, Nikola

● **USAVRŠAVANJE**

2008

Brodosplit, Tvornica dizel motora d.o.o.

Usavršavanje brodski motori MAN B&W, montaža i ispitivanje motora



Nikola Račić

Datum rođenja: 23/02/1968 | **Državljanstvo:** hrvatsko | **Spol:** Muško |

Telefonski broj: (+385) 21619404 (Službeni) | **E-adresa:** nikola.racic@pfst.hr |

WhatsApp Messenger: +385913701007 |

Adresa: Ruđera Boškovića 37, 21000, Split, Hrvatska (Službena)

O MENI

Rad u nastavi na svim razinama, mentoriranje doktoranada, znanstveno istraživanje osnovano na numeričkim i eksperimentalnim analizama procesa u motorima s unutarnjim izgaranjem kao i ostalih elemenata brodskih energetske sustava - posebno s aspekta emisija ispušnih plinova i energetske učinkovitosti.

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Fuel Exergy Based on the Chemical Equilibrium of Combustion Gases

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[view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:NhqRSupF_I8C](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:NhqRSupF_I8C)

Energy Efficiency Analysis of Variable Frequency Driven Centrifugal Pump in Merchant Vessel Cooling System

G Rilje, N Račić, D Đorđe, M Katalinić
10th IMSC-International Maritime Science Conference, 2023, 91-103

Poveznica [https://scholar.google.com/citations?](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:D03iK_w7-QYC)

[view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:D03iK_w7-QYC](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:D03iK_w7-QYC)

Maritime Alternative Fuels and Technologies for Sustainable future

G Radica, T Vidović, T Sumić, T Mrakovčić, N Račić, M Jelić, B Lalić, ...
10th IMSC-International Maritime Science Conference, 2023, 348-356

Poveznica [https://scholar.google.com/citations?](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:a0OBvERweLwC)

[view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:a0OBvERweLwC](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:a0OBvERweLwC)

Determination of Benefits of the Application of CMMS Database Improvement Proposals

Stazić, Ladislav; Račić, Nikola; Stanivuk, Tatjana; Dobrota, Đorđe
Applied sciences (Basel), **13** (2023), 4; 2731, 13 doi:10.3390/app13042731 (međunarodna recenzija, članak, znanstveni)

Poveznica <https://www.mdpi.com/2076-3417/13/4/2731>

Exhaust emissions reduction and fuel consumption from the LNG energy system depending on the ship operating modes

Martinić-Cezar, Siniša; Bratić, Karlo; Jurić, Zdeslav; Račić, Nikola

Pomorstvo (Scientific Journal of Maritime Research), **36(2022)** (2022), 2; 338-346 doi:10.31217/p.36.2.17 (međunarodna recenzija, pregledni rad, znanstveni)

Poveznica https://www.pfri.uniri.hr/web/hr/dokumenti/pomorstvo/2022/12/17_678-Martinić-Cezar.et.al.pdf

Methodology for testing shaft slide bearings of the ship propulsion system

Vetma, Vladimir; Vulić, Nenad; Račić, Nikola

// *Conference Proceedings "Mechanical Technologies and Structural Materials - MTSM 2022"/ Split: Croatian Society for Mechanical Technologies*, **70** (2022), 161-168, 2022.

Poveznica <https://www.bib.irb.hr/1223705>

Technical and Ecological Aspects of Water-lubricated Stern Tube Bearings

V Pelić, T Mrakovčić, R Radonja, N Račić
Pomorski zbornik, 289-304, Rijeka 2022.

Poveznica [https://scholar.google.com/citations?](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:YFjsv_pBGBYC)

[view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:YFjsv_pBGBYC](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:YFjsv_pBGBYC)

EXPERIMENTAL INVESTIGATION OF MARINE ENGINE EXHAUST EMISSIONS

L Mihanović, M Jelić, G Radica, N Račić

Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-14, 2021.

Poveznica [https://scholar.google.com/citations?](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:hMod-77fHWUC)

[view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:hMod-77fHWUC](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=5Hv9m64AAAAJ&sortby=pubdate&citation_for_view=5Hv9m64AAAAJ:hMod-77fHWUC)

Developments in Marine Hybrid Propulsion

Jelić, Maro; Radica, Gojmir; Račić, Nikola; Mrzljak, Vedran

6th International Conference on Smart and Sustainable Technologies (SpliTech) 2021 - Proceedings
Split: IEEE, 2021. str. 1-6 doi:10.23919/SpliTech52315.2021.9566449

Analysis of two-stroke low speed marine engines operating on alternative fuels

Radica Gojmir, Mrakovčić Tomsilav, Račić Nikola, Jelić Maro, Lalić Branko, Pelić Vladimir, Bratić Karlo, Bulat Domagoj

9th global conference on global warming gcgw 2021- conference proceedings / Zagreb, Croatia, 2021. str. 279-282

EXHAUST EMISSIONS FROM MARINE 4-STROKE ENGINE ON THE THREE FUEL TYPES

Martinić, Siniša-Cezar; Bratić, Karlo; Slišković Merica; Račić Nikola

2ST INTERNATIONAL CONFERENCE OF MARITIME SCIENCE & TECHNOLOGY NAŠE MORE 2021 / Mišković, Dario (ur.).

Dubrovnik: University of Dubrovnik, Maritime Department, 2021. str. 227-241 doi:504.5:621.43.068

Marine engines running on hydrogen additive in diesel fuel for emission reduction

Radica, Gojmir; Mrakovčić, Tomislav; Račić, Nikola; Jelić, Maro; Lalić, Branko; Pelić, Vladimir; Bratić, Karlo; Kozina, Ante; Bulat, Domagoj

6th International Conference on Smart and Sustainable Technologies (SpliTech) 2021 - Proceedings
Split: IEEE, 2021. Bol-Brač

An alternative and hybrid propulsion for merchant ships: current state and perspective

Jelić, Maro; Mrzljak, Vedran; Radica, Gojmir; Račić, Nikola

Energy sources part A-recovery utilization and environmental effects, 43 (2021), 1963354, 33 doi: 10.1080/15567036.2021.1963354

Podizanje razine sigurnosti plovidbe upotrebom sustava daljinskog nadzora na objektima pomorske signalizacije

Ivan Karin; Nikola Račić; Ivan Torlak; Tomislav Peša
MIPRO 2021. Opatija, Hrvatska, 2021. str. 136-142

Air Pollutant Emission Measurement

Račić, Nikola; Lalić, Branko; Komar, Ivan; Vidović, Frane; Stazić, Ladislav
Pedagogika (Sofia), 2021 - 6S (2021), 132-140 doi:10.53656/ped21-6s.11air

Fault Tree Analysis as a replacement for manufacturers maintenance instructions

Stazić, Ladislav; Knežević, Vlatko; Račić, Nikola; Orović, Josip
2nd International Conference of Maritime Science & Technology Naše more 2021, Dubrovnik 2021. str. 325-331

Experimental investigation of exhaust emission from marine diesel engines

Mihanovic, Luka; Jelic, Maro; Sumic, Tino; Radica, Gojmir; Racic, Nikola
5th International Conference on Smart and Sustainable Technologies (SpliTech)
Split: IEEE, 2020. str. 1-5 doi:10.23919/splitech49282.2020.9243740

Modelling, performance improvement and emission reduction of large two-stroke diesel engine using multi-zone combustion model

Muše, Ante; Jurić, Zdeslav; Račić, Nikola; Radica, Gojmir
Journal of Thermal Analysis and Calorimetry, 141 (2020), 1; 337-350 doi:10.1007/s10973-020-09321-7

Modeling and optimization of slow speed two stroke marine Diesel engine using Multi zone combustion model

Muše, Ante; Radica, Gojmir; Račić, Nikola; Jurić, Zdeslav
4th International Conference on Smart and Sustainable Technologies (SpliTech)
Bol, Republika Hrvatska: IEEE, 2019. str. 1-5 doi:10.23919/splitech.2019.8782998

Piston ring material in a two-stroke engine which sustains wear due to catalyst fines

Vukičević, Miroslav; Račić, Nikola; Ivošević, Špiro
Brodogradnja, 70 (2019), 2; 155-169 doi:10.21278/brod70208

Cruise ship traffic in the Adriatic Sea: environmental impact

Perić, Tina; Račić, Nikola
8th International Maritime Science Conference (IMSC 2019) Budva, Crna Gora, 2019. str. 49-58

Model vrednovanja onečišćenja mora otpadnim vodama s brodova za kružna putovanja

KLASA: 029-06/23-06/0014
URBROJ: 2181-197-00-23-0003
Split, 3. studenoga 2023. godine

Na temelju članka 43. Zakona o visokom obrazovanju i znanstvenoj djelatnosti ("Narodne novine", broj 119/2022) te članka 48. i članka 60. Statuta Pomorskog fakulteta, Fakultetsko vijeće je, na 14. elektroničkoj sjednici održanoj 3. studenoga 2023. godine donijelo

ODLUKU

o izboru prof. dr. sc. Nikole Račića na više radno mjesto redoviti profesor u trajnom izboru u znanstvenom području tehničkih znanosti, polju strojarstvo, grana brodsko strojarstvo na Zavodu za brodstrojarstvo

Obrazloženje:

Utvrđuje se da je na 12. sjednici održanoj 4. listopada 2023. godine Fakultetsko vijeće donijelo Odluku o pokretanju postupka izbora dr. sc. Nikole Račića na više radno mjesto redoviti profesor u trajnom izboru u znanstvenom području tehničkih znanosti, polju strojarstvo, grana brodsko strojarstvo na Zavodu za brodstrojarstvo. Na istoj sjednici su imenovani članovi Stručnog Povjerenstva za davanje ocjene o ispunjavanju zakonskih kriterija za izbor u sljedećem sastavu:

- prof. dr. sc. Nenad Vulić, predsjednik
- prof. dr. sc. Gojmir Radica, član, Sveučilište u Splitu FESB
- prof. dr. sc. Maro Jelić, član Sveučilište u Dubrovniku, Pomorski odjel

Fakultetsko vijeće je usvojilo obrazloženo mišljenje Stručnog povjerenstva za davanje ocjene o ispunjavanju zakonskih kriterija za izbor, da prof. dr. sc. Nikola Račić ispunjava kriterije za izbor na više radno mjesto redovitog profesora u trajnom izboru te je temeljem toga donijelo Odluku o ispunjavanju kriterija za izbor prof. dr. sc. Nikole Račića na više radno mjesto redoviti profesor u trajnom izboru u znanstvenom području tehničkih znanosti, polju strojarstvo, grana brodsko strojarstvo, kao u izreci.

Matični odbor za područje tehničkih znanosti - polja strojarstva, brodogradnje, tehnologije prometa i transport, zrakoplovstva, raketne i svemirske tehnike donio je 4. srpnja 2018. godine Odluku o izboru dr. sc. Nikole Račića u znanstveno zvanje višeg znanstvenog savjetnika u trajnom zvanju u znanstvenom području tehničkih znanosti, polje strojarstvo.

Sljedeći Uputu o primjeni odredbi Zakona o visokom obrazovanju i znanstvenoj djelatnosti koje se odnose na postupak izbora i reizbora na znanstveno-nastavna radna mjesta dobivenu od Ministarstva znanosti i obrazovanja, KLASA: 640-03/22-03/00013, URBROJ: 533-04-22-0001 Odluka Fakultetskog vijeća neće se prosljeđivati Matičnom odboru.

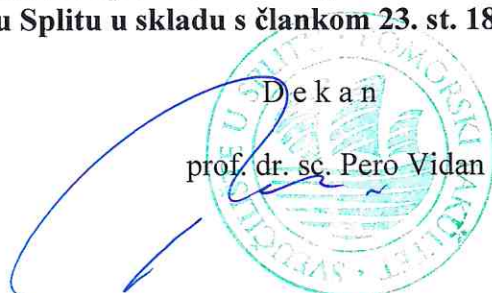
S prof. dr. sc. u trajnom izboru Nikolom Račićem, sklopit će se aneks ugovora o radu.

Ovu Odluku Fakultet dostavlja Sveučilištu u Splitu u skladu s člankom 23. st. 18. Statuta Sveučilišta u Splitu.

Dostaviti:

- Sveučilištu u Splitu
- prof. dr. sc. Nikoli Račiću
- Članovima Povjerenstva
- Službi za kadrovske i opće poslove
- Arhivi

Dekan
prof. dr. sc. Pero Vidan





Matični odbor za područje tehničkih znanosti

- polja strojarstva, brodogradnje, tehnologije prometa i transporta, zrakoplovstva, raketne i svemirske tehnike

KLASA: UP/I-640-03/18-01/0795

URBROJ: 355-06-04-18-0002

Zagreb, 4. srpnja 2018.

Na temelju članka 33. i 35. Zakona o znanstvenoj djelatnosti i visokom obrazovanju (NN 123/03, 198/03, 105/04, 174/04, 46/07, 45/09, 63/11, 94/13, 139/13, 101/14 i 60/15) Matični odbor za područje tehničkih znanosti – polja strojarstva, brodogradnje, tehnologije prometa i transporta, zrakoplovstva, raketne i svemirske tehnike, na 5. sjednici održanoj 4. srpnja 2018. donosi

ODLUKU

o izboru u znanstveno zvanje

Dr. sc. NIKOLA RAČIĆ, izvanredni profesor Pomorskog fakulteta Sveučilišta u Splitu, izabire se u znanstveno zvanje znanstvenog savjetnika u trajnom zvanju u znanstvenom području tehničkih znanosti – polje strojarstvo.

Obrazloženje

Sukladno članku 33. i 35. Zakona o znanstvenoj djelatnosti i visokom obrazovanju pristupnik dr. sc. Nikola Račić, podnio je dana 19. ožujka 2018. Tehničkom fakultetu Sveučilišta u Rijeci zahtjev za izbor u znanstveno zvanje znanstvenog savjetnika u trajnom zvanju, u znanstvenom polju strojarstvo.

Na prijedlog Stručnog povjerenstva imenovanog na sjednici Fakultetskog vijeća Tehničkog fakulteta Sveučilišta u Rijeci, dana 27. travnja 2018., koje je za pristupnika dalo svoje mišljenje o ispunjenju uvjeta iz čl. 15. i čl. 43. Pravilnika o uvjetima za izbor u znanstvena zvanja (NN 28/17), Fakultetsko vijeće Tehničkog fakulteta Sveučilišta u Rijeci na svojoj sjednici održanoj 29. lipnja 2018. utvrdilo je da pristupnik ispunjava sve uvjete za izbor u znanstveno zvanje znanstvenog savjetnika u trajnom zvanju u znanstvenom području tehničkih znanosti – polje strojarstvo.

Matični odbor prihvatio je prijedlog Fakultetskog vijeća Tehničkog fakulteta Sveučilišta u Rijeci te na 5. sjednici održanoj 4. srpnja 2018. izabrao pristupnika u znanstveno zvanje znanstvenog savjetnika u trajnom zvanju.

UPUTA O PRAVNOM LIJEKU: Protiv Odluke o izboru u znanstveno zvanje pristupnik nema pravo žalbe, ali može pokrenuti upravni spor pred Upravnim sudom u Rijeci u roku od 30 dana od dana dostave pristupniku. Tužba se predaje Upravnom sudu u Rijeci neposredno u pisanom obliku, usmeno na zapisnik ili se šalje poštom odnosno dostavlja elektronički.

Predsjednik Matičnog odbora
Prof. emeritus Mladen Franz

Odluka se dostavlja:

1. Dr. sc. Nikola Račić
2. Tehnički fakultet u Rijeci
3. Ministarstvo znanosti i obrazovanja

Curriculum Vitae

First name(s) / Surname(s)	Danilo Nikolic		
Address(es)	(Business) Put I Bokeljske brigade 44, Dobrota, 85330 Kotor, Montenegro (Home) Džordža Vašingtona 92, Podgorica, Montenegro		
Telephone(s)	+382 (0) 32 303184	Mobile:	+382 (0) 67 615 512
Fax(es)	+382 (0) 32 303184		
E-mail	danilo.nikolic@ucg.ac.me , dannikol@t-com.me		
Nationality	Montenegrin		
Date of birth	08-05-1969		
Gender	Male		
Employment / Occupational field	Full professor at the University of Montenegro Internal combustion engines, Fossil and alternative fuels, Fuel combustion and exhaust emission, Environmental protection and sustainable development in maritime transport		
Work experience			
Occupation or position held	University of Montenegro Management: • Rector of the University of Montenegro (2017 - 2021) • Dean of the Faculty of maritime studies in Kotor (2011 – 2017) • Founder and coordinator of the Centre for research, innovations and entrepreneurship @ Faculty of maritime studies (2016 –) Academic advances: • Full professor (2017 -) • Associate professor (2009 – 2017) • Assistant professor (2003 – 2009) • Teaching assistant (1995 – 2003)		
Main activities and responsibilities	Lecturing, research, faculty/university management		
Name and address of employer	University of Montenegro, Cetinjska 2, 810000 Podgorica, Montenegro		
Type of business or sector	Higher education / Public		
Dates	From October 1995 – up to now		
Occupation or position held	Member of the Scientific Committee for Transport of HAZU - Croatian Academy of Sciences and Arts		
Main activities and responsibilities	Transportation research		
Name and address of employer	Croatian Academy of Sciences and Arts		
Type of business or sector	Public		
Dates	2019 – up to now		
Occupation or position held	Member of Montenegrin Council for higher education		
Main activities and responsibilities	Implementation of Montenegrin law on higher education in Montenegro		
Name and address of employer	Ministry for education of Montenegro		
Type of business or sector	Public		
Dates	2015 – 2017		
Occupation or position held	President of the committee for oil and gas		
Main activities and responsibilities	Introduction of standards EN and ISO		

Name and address of employer	Montenegrin Institute for standardisation
Type of business or sector	Public
Dates	2010 – up to now
Occupation or position held	Committee member for energy efficiency and environmental protection
Main activities and responsibilities	Project activities
Name and address of employer	Montenegrin Chamber of Commerce
Type of business or sector	Public
Dates	2009 – 2013
Occupation or position held	Council President of Montenegrin Environmental Protection Agency
Main activities and responsibilities	Activities related to governing of Montenegrin EPA
Name and address of employer	Montenegrin EPA - Environmental Protection Agency, Podgorica, Montenegro
Type of business or sector	Public agency
Dates	2008 - 2012
Education	
Title of qualification awarded	Visiting professor / researcher
Principal subjects/occupational skills covered	Diesel engine, alternative fuels and exhaust emission
Name and type of organisation providing education and training	University of Michigan, Dept. of Mechanical eng., W.E. Lay automotive laboratory, Ann Arbor, MI, USA
Dates	2007/2008
Title of qualification awarded	Visiting researcher
Principal subjects/occupational skills covered	Alternative fuels and exhaust emission
Name and type of organisation providing education and training	Japanese National Institute of Advanced Industrial Science & Technology, Clean Power System Group, Tsukuba, Ibaraki, Japan
Dates	2005/2006
Title of qualification awarded	PhD title obtained
Principal subjects/occupational skills covered	Diesel engine, fuels and exhaust emission
Name and type of organisation providing education and training	University of Montenegro, Faculty of mechanical engineering, Podgorica, Montenegro / KEIO University, Dept. of System Design, Tokyo, Japan
Dates	2002
Title of qualification awarded	Visiting researcher
Principal subjects/occupational skills covered	Diesel engine, fuels and exhaust emission
Name and type of organisation providing education and training	KEIO University, Dept. of System Design, Tokyo, Japan
Dates	2000/2001
Title of qualification awarded	Master of sciences title obtained
Principal subjects/occupational skills covered	Marine diesel engine, fuels and exhaust emission
Name and type of organisation providing education and training	University of Belgrade, Faculty of mechanical engineering, Belgrade, Serbia
Dates	1999

Title of qualification awarded	Bachelor of science diploma obtained
Principal subjects/occupational skills covered	Motor vehicles and exhaust emission
Name and type of organisation providing education and training	University of Montenegro, Faculty of mechanical engineering, Podgorica, Montenegro
Dates	1995
Trainings	
Title of qualification awarded	Certificate of Completion
Principal subjects/occupational skills covered	Energy Transition through 2050 - Climate Science, Low Carbon Energy and Carbon Capture Strategies that Lead to Net-Zero
Name and type of organisation providing education and training	International Human Resources Development Corporation IHRDC www. https://ihrdc.com/about-ihrdc/
Dates	2022
Title of qualification awarded	Certificate of Participation
Principal subjects/occupational skills covered	Digital Sustainable Technologies in the Blue Economy
Name and type of organisation providing education and training	NTNU Norwegian University of Science and Technology
Dates	2022
Title of qualification awarded	Certificate of Attendance
Principal subjects/occupational skills covered	Regional training on Directive (EU) 2016/802 and other EU Maritime Environmental Legislation
Name and type of organisation providing education and training	EMSA European Maritime Safety Agency
Dates	2019
Title of qualification awarded	Certificate of Completion
Principal subjects/occupational skills covered	Energy Efficiency In Shipping
Name and type of organisation providing education and training	Lloyds Maritime Academy https://informaconnect.com/lloyds-maritime-academy/
Dates	2017
Title of qualification awarded	Certificate of Completion
Principal subjects/occupational skills covered	Overview of Offshore Systems
Name and type of organisation providing education and training	Petroskills https://www.petroskills.com/
Dates	2017
Title of qualification awarded	Certificate of Completion
Principal subjects/occupational skills covered	Marine Pollution Prevention & Management
Name and type of organisation providing education and training	Lloyds Maritime Academy https://informaconnect.com/lloyds-maritime-academy/
Dates	2016
Title of qualification awarded	Diploma

Principal subjects/occupational skills covered	LNG fuelled ships - BASIC									
Name and type of organisation providing education and training	NTNU Norwegian University of Science and Technology									
Dates	2016									
Title of qualification awarded	Certificate of Training									
Principal subjects/occupational skills covered	Rolls-Royce Marine Acon LNG Familiarisation course									
Name and type of organisation providing education and training	Rolls-Royce (Norway)									
Dates	2014									
Personal skills and competences										
Mother language (s)	Montenegrin									
Other language (s)	English									
Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
	<i>(*) Common European Framework of Reference for Languages</i>									
Social skills and competences	Good to communicate with people with diverse background, internationally, based on many years of living abroad - USA (3 years) and Japan (1 years).									
Organisational skills and competences	Proficient leadership skills (Rector of the University of Montenegro, Dean of Faculty for maritime studies Kotor, Council president at Montenegrin EPA, Executive director at different companies) and team work (different research activities)									
Additional information										
Grants and awards										
	• Fulbright fellowship at the University of Michigan in Ann Arbor, Dept. of Mechanical eng., W.E. Lay Automotive lab., USA, 2007-2008 • Fellowship from Japanese National Institute of Advanced Industrial Science & Technology - AIST, Clean fuels laboratory, Tsukuba Science city, Japan, 2005-2006. • Fellowship from KEIO University, Iida Laboratory, Tokyo, Japan, 2000-2001									
Memberships in international organizations	• A member of SAE – Society of Automotive Engineers (USA)									
Community service	• A member of the Commission for driver's license examination in Montenegro for all driving categories in front of Ministry for education. 1995 - 2000									

Annexes	List of publications, projects
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Annex 1 – Selected projects

1. Green Corridors for Carbon-Neutral Cruise and Ferry Shipping in the ADRION Region – GREENROUTES. Interreg VI - B IPA Adriatic Ionian – IPA ADRION - Cooperation Programme 2021-2027 – 1st Call for proposals. Project consortium coordinator prof. dr Danilo Nikolic (2024 - 2027).
2. Joint approach to Blue circular Economy for Adriatic and Ionian Region – JOINABLE. Interreg VI - B IPA Adriatic Ionian – IPA ADRION - Cooperation Programme 2021-2027 – 1st Call for proposals. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2024 - 2027).
3. Developing innovation network for uptake of solutions in robotics and sensors to improve monitoring and prevention of pollution of freshwater and sea ecosystems – ROBONETCBC. Interreg VI-A, IPA CBC Croatia - Bosnia and Herzegovina – Montenegro, Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2024 - 2027).
4. Innovative Systems to enhance Antifraud Customs Controls (ISACC +). Interreg IPA SA Capitalisation Small-Scale Call. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2024 - 2025).
5. Enhancing knowledge and skills at WB HEIs in preparation for zero carbon maritime transport and logistics society, Call: ERASMUS-EDU-2023-CBHE. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (15/01/2023 - 14/01/2026).
6. Development of Regional Joint Master Program in Maritime Environmental Protection and Management / MEP&M, Erasmus + CBHE Call for proposal 2020 EAC/A03/2019. Project consortium coordinator prof. dr Danilo Nikolic (15/01/2021 - 14/01/2024).
7. Sea Waste from Adriatic to Enhance Marine Composites, A bilateral cooperation research project between Italy and Montenegro, School of Science and Technology - University of Camerino and Faculty of maritime studies Kotor – University of Montenegro, co-financed by the Italian and Montenegrin Governments (1.1.2023-31.12.2024). Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic.
8. Smart and Green Ports – SG_Ports, Interreg IPA Cross-border Cooperation Italia-Albania-Montenegro (2022 – 2023). Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic.
9. Sustainable development of BLUE economies through higher education and innovation in Western Balkan Countries – BLUEWBC, Erasmus + CBHE Call for proposal 2019 EAC/A03/2018. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (15/01/2020 - 14/01/2023).
10. Partnership for the prOMotion of a maRiTIme cross-border Strategy PORTS 4.0 - Interreg IPA Cross-border Cooperation Italia-Albania-Montenegro. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2020 – 2021).
11. Reforming doctoral studies in Montenegro and Albania – MARDS, Erasmus + CBHE Call for proposal 2018 EAC/A03/2017. Member of project team for coordinating institution University of Montenegro prof. dr Danilo Nikolic (15/01/2020 - 14/01/2023).
12. Protection underwater heritage through its digitalization and valorization as a novel touristic offer – WRECKS4ALL, Interreg IPA Cross-border Cooperation Croatia-Bosnia and Herzegovina-Montenegro 2014-2020, 2nd Call for Proposals. Project consortium coordinator (2020 – 2022).
13. Fostering Internationalization at Montenegrin HEIs through Efficient Strategic Planning - IESP, Erasmus + CBHE Call for proposal 2019 EAC/A03/2018. Project consortium coordinator prof. dr Danilo Nikolic (15/11/2019 - 14/11/2021).
14. Partnership for the Observation and study of new Routes and Transnational Sea-highways – PORTS Interreg IPA Cross-border Cooperation Italia-Albania-Montenegro. Coordinator for partner institution University of Montenegro prof. dr Danilo Nikolic (2018 – 2020).
15. International certification of maritime education in Montenegro – EDUMAR. HERIC program. University of Montenegro, Maritime Faculty Kotor, project leader prof. dr Danilo Nikolic (14/04/2016 - 14/5/2017).
16. Montenegro Sustainable Maritime Competence Development Initiative, HERD Maritime 2010-2014, Higher education, research and development in the Western Balkans - maritime sector programme 2012-2014. Project partner UofM Maritime Faculty Kotor, project leader for partner institution prof. dr Danilo Nikolic, collaboration between University of Montenegro/Maritime faculty Kotor with Alesund University College, Norway (june 2013 – june 2016).
17. Modernizing and harmonizing maritime education in Montenegro and Albania – MarED, TEMPUS IV – 6th Call for proposals, project coordinator University of Montenegro/Maritime faculty Kotor, project leader prof. dr Danilo Nikolic (01/12/2013 - 30/11/2016).
18. Development of Sustainable Interrelations between Education, Research and Innovation at WBC Universities in Nanotechnologies and Advanced Materials where Innovation Means Business. TEMPUS IV – 6th Call for proposals. Project partner University of Montenegro/Maritime faculty Kotor, project leader for partner prof. dr Danilo Nikolic (01/12/2013 - 30/11/2016).
19. Possibilities for Production of Liquid Biofuels from Renewable Sources and Their Applications for Diesel Engine Propulsion on the Ships in Montenegro - BIOWPOWER. National Project financed by the Ministry of Science: University of Montenegro, Maritime Faculty Kotor, project leader prof. dr Danilo Nikolic (2012 - 2016).
20. Possibilities of exhaust gas emission reduction from ships in Montenegrin and Croatian parts of Adriatic sea with implementation of Marpol Annex VI code. Project leader prof. dr Danilo Nikolic. Supported by Montenegrin Ministry

of Science (bilateral cooperation with Croatia); collaboration between University of Montenegro/Maritime faculty Kotor with Maritime faculty, University of Split, Croatia (2013-2015.g.)

21. Production of liquid biofuels from renewable sources and their use in diesel engines on merchant and navy ships in Montenegro. Project leader prof. dr Danilo Nikolic. National project supported by Montenegrin Ministry of Science, 2012-2015.
22. Exploring the possibility of production of biofuels from waste materials and its application in the internal combustion engines. Project leader prof. dr Danilo Nikolic. Supported by Montenegrin Ministry of Science (bilateral cooperation with Bosnia and Herzegovina); collaboration between Maritime faculty in Kotor with Mechanical faculty, University of Sarajevo, Bosnia and Herzegovina (2012-2014.g.)

Annex 2 – Selected papers/reviews published in journals

1. Carlo Santulli, Cristiano Fragassa, Ana Pavlovic and Danilo Nikolic, Use of Sea Waste to Enhance Sustainability in Composite Materials: A Review, J. Mar. Sci. Eng. 2023, 11(4), 855; <https://doi.org/10.3390/jmse11040855>
2. Nada Marstijepovic, Sead Cvrk, Radmila Gagic, Ivan Filipovic, Danilo Nikolic, Application of biodiesel derived from olive oil production wastes at marine diesel engine and evaluation of gaseous emission trends, Thermal Science 2023 Volume 27, Issue 3 Part B, Pages: 2195-2203, <https://doi.org/10.2298/TSCI220707218M>
3. Gagic, R.; Skuric, M.; Djukanovic, G.; Nikolic, D. Establishing Correlation between Cruise Ship Activities and Ambient PM Concentrations in the Kotor Bay Area Using a Low-Cost Sensor Network. Atmosphere 2022, 13, 1819. <https://doi.org/10.3390/atmos13111819>
4. Giulia Zanier, Francesco Giunto, Andrea Petronio, Federico Roman, Radmila Gagić, Danilo Nikolic, Kotor Bay Area Hydrodynamics and Pollutant Dispersion Simulations: A Tool for Contingency Plans. EbookTechnology and Science for the Ships of the Future, 2018. Pages 604 – 611, DOI 10.3233/978-1-61499-870-9-604
5. Nikolić Danilo, Gagić Radmila, Ivošević Špiro, Estimation of Air Pollution from ships in the Boka Kotorska Bay (2016). The Boka Kotorska Bay Environment, part of the series The Handbook of Environmental Chemistry pp 1-12. ISBN 1867-979X. Springer.
6. Nikolić Danilo, Cvrk S., Marstijepović N., Gagic R., Filipovic I., Influence of Biodiesel Blends on Characteristics of Gaseous Emissions From Two Stroke, Low Speed Marine Diesel Engines. Advances in Application of Industrial Biomaterials pp 49 - 63. Print ISBN 978-3-319-62766-3, online ISBN 978-3-319-62767-0. Springer.
7. Nikolić Danilo, Marstijepović N., Cvrk S., Gagic R., Filipovic I. (2016) Evaluation of pollutant emissions from two-stroke marine diesel engine fueled with biodiesel produced from various waste oils and diesel blends. Brodogradnja/Shipbuilding: Theory and Practice of Naval Architecture, Marine Engineering and Ocean Engineering, Vol.67 No.4 December 2016. (online), pp 81-90. ISSN 0007-215X, eISSN 1845-5859.
8. Aleksandar Nikolić, Danilo Nikolić, Emilija Nikolić, Vesna Vujačić “Urban Noise Modelling In Boka Kotorska Bay”, Promet – Traffic&Transportation, Vol. 26, 2014, No. 2, 151-157, ISSN 0353-5321 print, ISSN 1848-4069 online
9. Branko Lalić, Ivan Komar, Danilo Nikolić, “Optimization of Ship Propulsion Diesel Engine to Fulfill the New Requirements for Exhaust Emissions”, TOMS, Transactions On Maritime Science 31, April 2014 Vol.3.No1.ISSN 1848-3305.
10. Nikolić A., Nikolić Danilo, "Evolution of equivalent noise levels in tourist resort Donja Lastva", Mathematica Montisnigri Vol XXIV (p. 261-270), 2012.
11. Kastratović G., Nikolić Danilo, (2013), Control of pollutant emissions from marine diesel engines. Kvalitet i izvrsnost, Year II, No 3-4, 2013, pp 64-67, ISSN 2217 – 852X.
12. Ivošević, Š., Bauk, S., Nikolić Danilo, Structural degradation of the bulk-carriers caused by the corrosion, Journal of Technics Technologies Education Management, (ISSN: 1840-1503), Vol.8, No.1, 2/3 2013.
13. Nikolić Danilo, Vujadinović R., “Legislation Harmonization in Republic of Montenegro With Eu in the Area of Motor Fuels Quality”, Kvalitet, Časopis za unapređivanje kvaliteta, broj 7-8 86-89), ISSN 0354-2408, Srbija, Septembar 2007.
14. Vujadinović R., Nikolić Danilo, Dobovišek Ž., “Alternative approach to the modelling of CO2 emission from passenger vehicles”, FUELS and LUBRICANTS, Journal for Tribology, Lubrication, Application of Liquid and Gaseous Fuels and Combustion Engineering, Volume 46 (129-148), ISSN 0350-350, Croatia, May 2007.
15. Shiotani H., Goto S., Kinoshita K., Nikolić Danilo, "Characteristics of Aldehydes and VOCs Emission from Off-Road Engines" SAE (Society of Automotive Engineers) Journal of Fuels and Lubricants (719-725), ISSN 978-0-7680-1836-3, SAD, Mart 2007.
16. Nikolić Danilo, Iida Norimasa, “Effect of intake CO2 concentrations on fuel spray flame temperatures and soot formations” Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, Volume 221, Number 12/2007, (1567–1574), ISSN 0954-4070, Professional Engineering Publishing, V. Britanija, Decembar 2007.
17. Oguma M., Goto S., Tsujimura T., Nikolić Danilo, “Analysis of Particulate Matter (PM) Emitted from DME Powered Direct Injection Diesel Engine – Measurement of PM Size Distribution”, JSAE (Japanese Society of Automotive Engineers) Review, Volume 28, No2 (181-186), ISSN 1349-4724, Japan, April 2007.

18. Nikolic Danilo, Vujadinovic R., Norimasa Iida, „Experimental study on effects of different EGR ratio on flame temperature and soot formation using diesel fuels with different T90 distillation temperatures“, Strojniški Vestnik (str 863-871), ISSN 0039-2480, Slovenija, Decembar 2006.
19. Vujadinovic R., Nikolic Danilo, Ž. Dobovišek, „Alternative approach to modelling of CO2 emission from motor vehicles«, Fuels and Lubricants, Journal for Tribology, Lubrication, Application of Liquid and Gaseous Fuels and Combustion Engineering, Zagreb 2006. ISSN 0350-350X
20. Shinya Takahashi, Nikolic Danilo, Kazunari Wakimoto, Norimasa Iida, „Effects of Aromatics Contents and 90% Distillation Temperature of Diesel Fuels on Flame Temperature and Soot Formation“, Society of Automotive Engineers Transactions, Journal of Fuels and Lubricants, SAE, USA, 2003.

Last up-date: May, 2024.



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Datum / Date 05. 07. 2017

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Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore“ br. 44/14, 47/15, 40/16, 42/17) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 05.jula 2017.godine, donio je

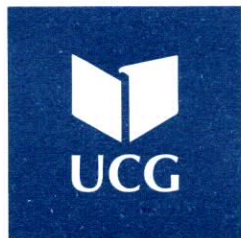
**ODLUKU
O IZBORU U ZVANJE**

Dr Danilo Nikolić bira se u akademsko zvanje redovni profesor Univerziteta Crne Gore za oblast Motori i vozila na Pomorskom fakultetu, na neodređeno vrijeme .

**Senat Univerziteta Crne Gore
Predsjednica**



Prof. Radmila Vojvodić



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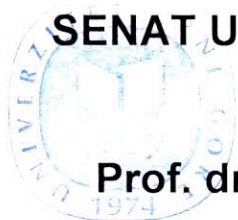
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Datum / Date 08. 12 2023

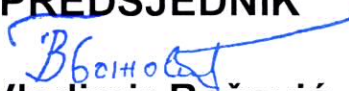
Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore“, br. 44/14, 47/15, 40/16, 42/17, 71/17, 55/18, 3/19, 17/19, 47/19, 72/19 i 74/20 i 104/21 i 86/22) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 8.12.2023. godine, donio je

ODLUKU O IZBORU U ZVANJE

Dr MIROSLAV VUKIČEVIĆ bira se u akademsko zvanje **docent Univerziteta Crne Gore** za oblast **Brodomaštinstvo** na **Pomorskom fakultetu Univerziteta Crne Gore**, na period od pet godina.



SENAT UNIVERZITETA CRNE GORE
PREDSJEDNIK


Prof. dr Vladimir Božović, rektor

PERSONAL INFORMATION

Miroslav Vukičević



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Business – Faculty of Maritime Studies, Put I Bokeljske brigade 44, 85330, Kotor, Montenegro

+38232303184 +38267560114

miroslav.v@ucg.ac.me; vukicevic.miroslav@gmail.com

Sex Male | Date of birth 16/09/1981 | Nationality Montenegrin

WORK EXPERIENCE

From 2016 up to now

Teaching Assistant

University of Montenegro, Faculty of Maritime Studies (Put I Bokeljske brigade 44, Kotor, 85330, Montenegro)

- Researcher in the following fields: Marine auxiliary sistem, Marine Biology, Ecological Engineering, Engineering Education
- Business or sector: High-education institution

From 2004 up to 2016

Marine engineer *MITSUI O.S.K. LINES*

From 2000 up to 2004

Sports trainer Handball club Kotor, Boka

EDUCATION AND TRAINING

2022

PhD

PhD

University of Montenegro, Faculty of Maritime Studies Kotor, Montenegro

- Methodology for reducing the impact of catalytic residues on the durability of piston rings in low speed marine engines

2016

Master of Sciences

MSc

University of Montenegro, Faculty of Maritime Studies Kotor, Montenegro

- The possibility of using simulation software in order to predict nitrogen oxide (NOx) emissions from MAN B&W marine engines

2004

Bachelor of Sciences

BSc

University of Montenegro, Faculty of Maritime Studies Kotor, Montenegro

- Marine engineering

2000

Valedictorian in High School - Naval High School Kotor

[24/09/2018] till [28/09/2018] Erasmus + teaching mobility at UNIVERSITY OF THE AEGEAN, Chios, Greece

[7/03/2020] till [14/03/2020] Erasmus + teaching mobility at Óbuda University, HU BUDAPES, Hungary

[27/09/2021] till [12/10/2021] Erasmus + teaching mobility at University of Dubrovnik, Croatia

PERSONAL SKILLS

Mother tongue(s)

Montenegrin

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	
Italian	B1	B1	B1	B1	

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills Very good

Organisational / managerial skills Good ability for teamwork; From February 2023 he was head of the Training Center for seafarers at the Faculty of Maritime Studies Kotor.

Computer skills Microsoft Office and Internet applications (regular Internet user)

Driving licence A, B category

ADDITIONAL INFORMATION

- Able to communicate concisely and accurately.
- Good organizational skills.
- Willingness to work hard.
- Attends a lot of conferences about marine engineering

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References

Projects:

- Zero C (*Erasmus + project) "Enhancing knowledge and skills at WB HEIs in preparation for zero carbon maritime transport and logistics society", 1.11.2023 – 31.10.2026)
- COST Action: CA22122 - Rethinking the Blue Economy
- Razvoj regionalnog zajedničkog master programa za zaštitu i upravljanje morskom sredinom – MEP&M" (Erasmus+ CBHE projekat br. 619239-EPP-1-2020-1-ME-EPPKA2-CBHE-JP)
- Erasmus + project Sustainable development of BLUE economies through higher education and innovation in Western Balkan Countries, akronim – BLUEWBC, January 2020 – January 2023.
- Montenegro Sustainable Maritime Competence Development Initiative, HERD Maritime 2010-2014, Higher education, research and development in the Western Balkans - Maritime Sector Programme 2012-2014. Project partner UoM Maritime Faculty Kotor, Project Leader for partner Prof. Dr. Danilo Nikolić, collaboration between Maritime Faculty Kotor with Alesund University College, Norway (June 2013 – June 2015);
- Modernizing and harmonizing maritime education in Montenegro and Albania – MarED, TEMPUS IV – 6th Call for proposals, project coordinator UoM Maritime Faculty Kotor (01/12/2013 - 30/11/2016);

Seminars:

- **23. Generalna skupština konfederacije udruženja pomorskih kapetana zemalja EU, Kotor 4. Maj 2018**
- **Lloyd's Register training course: Leaders of the Future, 17 - 19 October 2023 Kotor, Montenegro**

Papers/reviews published in journals:

1. **M. Vukičević**, B. Drašković, P. Mustur, T. Šorović: "Environmental benefits and energy efficiency arising from optimization of vessel's voyage" 12 International conference on social and technological development STED, 15 -18 June 2023 In Trebinje, Bosnia and Herzegovina ISSN 2303-498X
2. I. Petrović, Š. Ivošević, **M. Vukičević** What is a Risk of Increased Traffic in Boka Bay? –

Journal of Maritime Sciences (JMS) Vol. 23, No. 2/2022; November 2022 DOI:
<https://doi.org/10.56080/jms221106>

3. Zorica Đurović, Milica Vuković-Stamatović & **Miroslav Vukičević**: "How much and what kind of vocabulary do marine engineers need for adequate comprehension of ship instruction books and manuals?" :ISSN: 1576-4737 Círculo de Lingüística Aplicada a la Comunicación 88,123-133, <https://dx.doi.org/10.5209/clac.78300>
4. Zorica Đurović & **Miroslav Vukičević**: "Hybrid Twinning on Marine Engine Simulators" Journal of Maritime Sciences (JMS) Vol.23 No.1/2022, ISSN 2787-8880 DOI:
<https://doi.org/10.56080/jms220508>
5. Bratić, K., Stazić, L., **Vukičević, M.** and Lalić, B. (2021) "Cruise Vessels Air Pollution Inventory for the Port of Kotor", Transactions on Maritime Science. Split, Croatia, 10(1), pp. 200–207. doi: 10.7225/toms.v10.n01.016.
6. Vukičević, M., Račić, N., Ivošević, Š.: Piston ring material in two-stroke engine which sustains wear due to catalyst fines, ISSN 0007-215X eISSN 1845-5859, Brodogradnja Vol. 70, No.2, 2019 <http://dx.doi.org/10.21278/brod70208>
7. Ivošević Š., Rudolf R., Majerić P., Kovač D., **Vukičević M.**, "Pregled baznih istraživanja mogućnosti primjene materijala sa oblikom u nautičkoj industriji" God.35 Broj 22, Kotor 2019, ISSN 0352-1052
8. **Vukičević M.**, Račić N., Vukašinović D. "Tretman teškog goriva sa aspekta štetnog teškog brodskog goriva sa aspekta štetnog djelovanja katalitičkih nečistoća" God.35 Broj 22, Kotor 2019, ISSN 0352-1052

Papers published in proceedings of the conferences:

1. **Vukičević M.**, Drašković B., Vukašinović D. "Scavenging drain analysis (SDA) from two-stroke diesel engine – most useful analysis" 12 International conference on social and technological development STED, 15 -18 June 2023 In Trebinje, Bosnia and Herzegovina ISSN 2637-3298
2. D. Vukašinović , **M. Vukičević** , I. Petrović , R. Gagić : "Passenger vessel control loss and oil spill in port of Kotor area", KIMC3 3rd Kotor International Maritime Conference, November 2023 ISBN 978-86-80031-67-5
3. D.Kovač, S.Cvrk, **M. Vukičević**: "The possibility of increasing the efficiency of ship propulsion with cycle gas turbines" , Energetika 2023 , Zlatibor 12-15.09.2023,Srbija
4. **Miroslav Vukičević**, Nikola Račić & Boris Hrnčić: "CAUSES OF WEAR ON PISTON RINGS AND CYLINDER LINERS - "ISHIKAWA DIAGRAM" 2nd Kotor International Maritime Conference (KIMC 2022), November 27-30, 2022 Kotor, Montenegro ISBN 978-86-7664-226-7
5. **Miroslav Vukičević**, Igor Petrović, Zorica Đurović & Lazar Dragović: "HOW TO IMPROVE MONTENEGRIN SEAFARER COMPETITIVENESS IN THE INTERNATIONAL MARKET" 2nd Kotor International Maritime Conference (KIMC 2022), November 27-30, 2022 Kotor, Montenegro ISBN 978-86-7664-226-7
6. Vera Kapetanović, Igor Stanovčić, **Miroslav Vukičević**, Igor Petrović & Tatjana Dlabac: "KEY PERFORMANCE INDICATORS OF THE QUALITY MANAGEMENT SYSTEM IN THE FUNCTION OF MONITORING THE EDUCATION AND TRAINING OF SEAMEN AT THE FACULTY OF MARITIME STUDIES KOTOR" 2nd Kotor International Maritime Conference (KIMC 2022), November 27-30, 2022 Kotor, Montenegro ISBN 978-86-7664-226-7
7. Nikola Jelić and Luka Mijušković "THE IMPORTANCE OF TRAINING FOR OFFICERS AND CREW SERVING ON SHIPS SUBJECT TO IGF CODE" Supervisor: Assoc. Prof. Tatjana Dlabac, **Miroslav Vukičević**, MSc,2nd Kotor International Maritime Conference (KIMC 2022), November 27-30, 2022 Kotor, Montenegro ISBN 978-86-7664-226-7
8. Nemanja Tabaš, Ana Simeunović, Blagoje Mičeta& Vasilije Kovačević "PERFORMANCE OF THE ELECTRICITY PRODUCTION ON THE ENGINE ROOM SIMULATOR"

	Supervisor: Assoc. Prof. Tatijana Dlabač, Miroslav Vukičević, MSc, 2nd Kotor International Maritime Conference (KIMC 2022), November 27-30, 2022 Kotor, Montenegro ISBN 978-86-7664-226-7 9. Igor Petrović, Špiro Ivošević & Miroslav Vukičević: "Does Increased Traffic Increase Risk in Boka Bay?" 1ST Kotor International Maritime Conference (KIMC 2021) 26-27 November 2021, Kotor, Montenegro 10. Zorica Đurović & Miroslav Vukičević: "Hybrid "Twinning" in Maritime Education" 1ST Kotor International Maritime Conference (KIMC 2021) 26-27 November 2021, Kotor, Montenegro 11. Tripo Moškov, Filip Petričević & Miroslav Vukičević: "The Benefits of Sailing Skills for Future Seafarers" 1ST Kotor International Maritime Conference (KIMC 2021) 26-27 November 2021, Kotor, Montenegro 12. Miroslav Vukičević, Zorica Đurović, Boris Hrnčić & Karlo Bratić: "Optimization of Fuel Purifier Operation for More Efficient Elimination of Small Abrasive Impurities" 1ST Kotor International Maritime Conference (KIMC 2021) 26-27 November 2021, Kotor, Montenegro 13. Š. Ivošević, P. Majerić, M. Vukičević, R. Rudolf: "A Study of the Possible Use of Materials With Shape Memory Effect in Shipbuilding" Journal of Maritime and Transportation Sciences, Vol. Special edition No. 3, 2020. Page 265-277. ISSN 0554-6397 Konferencijski članak (Conference paper) 14. Vukičević, M., Cvrk, S, Kovač, D, Lalić, B., "Measurement of torsional vibration on Propeller Shafts Using Code Discs and Optical Forks" 8th International maritime science conference IMSC 2019, Budva, 11-12 April 2019 ISSN 1847-1498 Page 345-351 15. Vukičević, M., Ivošević, Š, Rudolf, R, Majerić, P.; "An Analysis of the Influence of Abrasive Particles in Fuel on the Degree of Damage to Piston Rings" 8th International maritime science conference IMSC 2019, Budva, 11-12 April 2019 ISSN 1847-1498 Page 301-315 16. Bogdanović M., Vukičević M.; "The environmental impacts of the offshore oil and gas industry" 21st DKMT Conference on Environment and Health, 06-08 June 2019, Faculty of Technology Novi Sad, Serbia ISBN 978-86-6253-107-0 Page 60-68 17. Vukičević M., Bogdanović M., Kovač D., Vujičić S.; "Prospective jobs for Montenegrin seafarers in the epicontinental area of Montenegro "1st International conference of maritime science & technology Naše more 2019, Dubrovnik, 17 – 18th October 2019, ISBN 978-953-7153-52-6 Page 600-610 18. Vukičević M., Račić N., Vukašinović D.; "Ways of reducing the content of catalytic fines in marine heavy fuel oil "1st International conference of maritime science & technology Naše more 2019, Dubrovnik, 17 – 18th October 2019, ISBN 978-953-7153-52-6, Page 611-624 19. Š. Ivošević, P. Majerić, M. Vukičević, R. Rudolf: "A study of the possible using of materials with shape memory effect in nautics" Eighth conference on marine technology in memoriam of the academician Zlatko Winkler November 15 and 16, 2019, Faculty of Engineering University of Rijeka (ISSN 0554-6397 Print, ISSN 1848-9052 Online): 20. Vukičević Miroslav, Mraković Ivan, Ivošević Špiro: "Analysis of the influence of preventive maintenance of main engines on working parameters and emissions ", 5ta konferencija "Održavanje 2018" Zenica, 10-12 maj 2018., str. 247 - 254, ISSN 1986-583X 21. Miroslav Vukičević, Radmila Gagić, Danilo Nikolić: "Application of simulation software in estimation of NOx emissions from ship's main engine at different loads ", Internacionalna konferencija IMSC Split, 2017 str. 531-543, ISSN 1847-1498 22. Gagić, R., Vukičević, M., Nikolić, D: "Estimation of PM emissions from cruise ships in Kotor Bay" 6th International conference WeBIOPATR 2017, Belgrade, Serbia, 6.-8.
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