

**LISTA LUCRARI**

**LUCRĂRI CITATE**

- [1] **A.-T. Nedelcu**, O. Tărăbuță, C. Clinci and G. Ichimoaiei, "CFD approach used for modelling hydrodynamic analysis and motion characteristics of a remotely operated vehicle," *4th International Scientific Conference SEA-CONF 2018, IOP Conf. Series: Earth and Environmental Science 172 (2018) 012029*, 2018.
- [2] R. Boșneagu, **A.-T. Nedelcu** and I. Scurtu, "Scurtu, Black Sea - the geopolitical, economic, social and military importance," *Conference Series, Volume 1122, Resort - International Conference on Sustainable Future and Technology Development*, October 2018.
- [3] **A.-T. Nedelcu** and C.-P. Clinci, "A survey of autonomous vehicles in scientific applications," "*Mircea cel Batran*" Naval Academy Scientific Bulletin, vol. XX, no. 2, 2017.

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- [1] V. Blintsov, K. Trunin, Construction of a mathematical model to describe the dynamics of marine technical systems with elastic links in order to improve the process of their design, February 2020 Eastern-European Journal of Enterprise Technologies 1(9 (103)):56-66, DOI: 10.15587/1729-4061.2020.197358
- [2] Z. Bao-Ji, L. Xin-Di. S. Wen-Xuan, Resistance performance simulation of remotely operated vehicle in deep sea considering propeller rotation, August 2019, Proceedings of the Institution of Mechanical Engineers Part M Journal of Engineering for the Maritime Environment 234(6):147509021986760, DOI: 10.1177/1475090219867604
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- [2] R. Boșneagu, **A.-T. Nedelcu** and I. Scurtu, "Scurtu, Black Sea - the geopolitical, economic, social and military importance," *Conference Series, Volume 1122, Resort - International Conference on Sustainable Future and Technology Development*, October 2018.
- [3] **A.-T. Nedelcu** and C.-P. Clinci, "A survey of autonomous vehicles in scientific applications," *"Mircea cel Batran" Naval Academy Scientific Bulletin*, vol. XX, no. 2, 2017.
- [4] **A.-T. Nedelcu**, C. Faitar, L. Stan, N. Buzbuchi and L. M. Dumitrache, "The vehicle movement using computational fluid dynamics method," *Modern technologies and Industrial Engineering VII, (ModTech2019), IOP Conf. Series: Materials Science and Engineering 591* (2019) 012110, 2019.
- [5] **A.-T. Nedelcu**, O. Tarabuta, C. Clinci and G. Ichimoaei, "CFD approach used for modelling hydrodynamic analysis and motion characteristics of a remotely operated vehicle," *4th International Scientific Conference SEA-CONF 2018, IOP Conf. Series: Earth and Environmental Science 172* (2018) 012029, 2018.
- [6] **A.-T. Nedelcu**, N. Buzbuchi, C. Faitar and L. Stan, "Underwater vehicle –their past present and future development," *Conference Series, Volume 1122, Resort - International Conference on Sustainable Future and Technology Development*, 2018.
- [7] R. Boșneagu, S. Lupu, A. Pocora, S. Serban and **A.-T. Nedelcu**, "Calculating the position parameters at the kinematic maneuver for approaching and collision courses," *Resort 2018, IOP Conf. Series: Journal of Physics: Conf. Series 1122* (2018) 012019, 2018.
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- [9] C. Faitar, **A.-T. Nedelcu**, N. Buzbuchi, L. C. Stan and D. Juganaru, "Consideration of Energy Efficiency Operational Index evaluation," *onference Series, Volume 1122, Resort - International Conference on Sustainable Future and Technology Development*, 2018.
- [10] D. Atodiresei, **A.-T. Nedelcu**, A. Toma, S. Lupu, M. R. Apetroaei and A. Aptula, "Optimization the navigation route from Singapore to Santos by using the ship's software and processing the hydrometeorological parameters received in real time," *5th International Scientific Conference SEA-CONF 2019, IOP Conf. Series: Journal of Physics: Conf. Series 1297* (2019) 012027, 2019.
- [11] C. Faitar, **A.-T. Nedelcu**, L. Stan, N. Buzbuchi and L. Dumitrache, "Consideration of the energy balance of an internal combustion engine and the recovery of heat lost through the cooling water," *Modern technologies and Industrial Engineering VII, (ModTech2019), IOP*

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- [12] C. Faităr, **A.-T. Nedelcu**, N. Buzbuchi, L. Stan and M. L. Dumitrache, "Optimizing the energy efficiency of vessels using recovery boilers," *IOP Conference Series: Materials Science and Engineering*, vol. 916.
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- [15] P. Serban, **A.-T. Nedelcu**, A. Pocora and A. Bacioiu, "Comparison of CFD determined squat on sailing ship MIRCEA with empirical methods," *Scientific Bulletin of Naval Academy (SBNA)*, ISSN: 2392-8956; ISSN-L: 1454-864X, vol. 2, 2019.
- [16] **A.-T. Nedelcu**, D. Atodiresei and N. Buzbuchi, "Oceanographic research and recordings made on the north-west coast of the Black Sea," *International Journal Of Conservation Science*, vol. 11, no. 2, 2020.
- [17] D. Atodiresei, **A.-T. Nedelcu**, A. Toma, S. Lupu, M. Apetroaei and A. Akan, "Optimization the navigation route from Singapore to Santos by using the ship's software and processing the hydrometeorological parameters received in real time," *Journal of Physics: Conference Series*, vol. 1297, 2019.
- [18] C. Faitar, L. Stan and **A.-T. Nedelcu**, "Considerations on economic and ecological analysis of naval propulsion systems," *ModTech 2018 IOP Conf. Series: Materials Science and Engineering* 400 (2018) 082011.
- [19] **A.-T. Nedelcu**, C. Faităr, N. Buzbuchi, L. C. Stan and M. L. Dumitrache, "Simulation regarding the forward part of underwater remotely operated vehicle designed for research in maritime and river districts," *9 th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2020, University "POLITEHNICA" of Bucharest Faculty of Mechanical Engineering and Mechatronics - Faculty of Biotechnical Systems Engineering*.

#### **Reviste de specialitate de circulație națională recunoscute CNCSIS**

1. **A.-T. Nedelcu** and C.-P. Clinci, "A survey of autonomous vehicles in scientific applications," *"Mircea cel Batran" Naval Academy Scientific Bulletin*, vol. XX, no. 2, 2017.
2. **A.-T. Nedelcu**, C. Faitar and N. Buzbuchi, "The Analysis of Immersion Movement of

Remotely Operated Vehicle. ISSN 2247 – 9635," *Mechanical Testing and Diagnosis*, vol. 4, pp. 5-8, 2017(VII).

3. **A.-T. Nedelcu** and A. Toma, "Calculation of drag force of type 22 Frigate using PTC Mathcad Program," "Mircea cel Batran" Naval Academy Scientific Bulletin. ISSN 1454-864X, vol. XIX, no. 2, 2016.
4. **A.-T. Nedelcu**, A. Toma and D. Atodiresei, "Assessment of the marine wave energy for the north-western area of the Black Sea," "Mircea cel Batran" Naval Academy Scientific Bulletin. ISSN 1454-864X, vol. XX, no. 1, 2017.
5. **A.-T. Nedelcu**, A. Toma and D. Atodiresei, " Optimization of training ship " Mircea" underway on route Constanta to New York," "Mircea cel Batran" Naval Academy Scientific Bulletin. ISSN 1454-864X, vol. XX, no. 1, 2017.
6. **A.-T. Nedelcu**, S. Lupu, A. Toma and C. Clinci, "Ship maneuvering prediction based Pivot Point Estimation," *Scientific Bulletin of Naval Academy XXI*, vol. 2, 2018.
7. A. Toma, V. Chirita and **A.-T. Nedelcu**, "Implementation of non-lethal defense systems aboard commercial vessels for close combat terrorist threats," "Mircea cel Batran" Naval Academy Scientific Bulletin. ISSN 1454-864X, vol. XX, no. 1, 2017.
8. **A.-T. Frâncu**, "Dispozitive utilizate pentru antrenarea operatorilor în luptă antisubmarin," *Buletinul Forțelor Navale nr. 22/2015*.

#### VOLUME DE CONFERINȚE:

- [1] **A.-T. Nedelcu**, N. Buzbuchi, C. Faitar, L. Stan and L. Dumitrache, "The vehicle movement using computational fluid dynamics method," *Modern technologies and Industrial Engineering VII, (ModTech2019), IOP Conf. Series: Materials Science and Engineering 591 (2019) 012110*.
- [2] C. Faitar, **A. T. Nedelcu** and N. Buzbuchi, "Consideration of heat recovery for a diesel twostroke engine," *Mechanical Testing and Diagnosis ISSN 2247 – 9635*, vol. 1, pp. 18-21, 2018.
- [3] **A.-T. Nedelcu**, C.Faitar and M.L. Dumitrache, "The Analysis of Immersion Movement of Remotely Operated Vehicle," *Mechanical Testing and Diagnosis*, vol. 4, pp. 5-8, 2017(VIII).
- [4] **A.-T. Nedelcu**, C. Faitar and M.L. Dumitrache, "CFD Analysis for a Remotely Operated Vehicle in Horizontal Plan," *Mechanical Testing and Diagnosis*, vol. 1, pp. 5-10, 2018(VIII).
- [5] C. Faitar, **A. T. Nedelcu** and M. L. Dumitrache, "Improving the heat balance by using the exhaust gases for a tanker ship," *Mechanical Testing and Diagnosis ISSN 2247 – 9635*, vol. 2, pp. 11-14, 2018(VIII).

- [6] C. Faitar, **A.-T. Nedelcu**, L. Stan, N. Buzbuchi and L. Dumitrache, "Consideration of the energy balance of an internal combustion engine and the recovery of heat lost through the cooling water," *Modern technologies and Industrial Engineering VII, (ModTech2019), IOP Conf. Series: Materials Science and Engineering 591* (2019) 012110, 2019.
- [7] "Studiu și măsurători privind influența curenților costieri asupra litoralului românesc de la Capul Midia la Mangalia"- Conferința Direcției Hidrografice Februarie 2020
- [8] Membru comitet organizare cea de-a XLII a editie a Sesiunii de Comunicari Stiintifice Studentesti CADET - NAV 2020- Academia Navală Mircea cel Bătrân;
- [9] Membru comitet organizare Seminarul absolventilor 2020;

## PARTICIPĂRI ÎN PROIECTE DE CERCETARE-DEZVOLTARE

1. Proiect Științific de Cercetare-Dezvoltare nr. 129/2019 " *Studiu și măsurători privind influența curenților costieri asupra litoralului românesc de la Capul Midia la Mangalia*" – autor
2. Proiect Științific de Cercetare-Dezvoltare nr. 134/2020 – " *Studiu privind optimizarea unui voaj în jurul lumii a NS "Mircea" din punct de vedere al condițiilor hidrometeorologice*" – membru
3. Proiect Științific de Cercetare-Dezvoltare nr. 126/2019 " *Studiu privind necesitatea acreditării unui program de studiu Navigatie și Transport Maritim și Fluvial în limba engleză*" – membru
4. Proiect Științific de Cercetare-Dezvoltare nr. 185/2018 " *Tinte navale gonflabile din material textile* – membru
5. Proiect Științific de Cercetare-Dezvoltare nr. 155/2018 " *Kit practice pentru studierera și identificarea navelor în funcție de luminile și semnele specific confor Regulamentului international pentru prevenirea abordajelor pe mare (COLREG)*" – membru
6. Proiect Științific de Cercetare-Dezvoltare nr. 130/2019 " *Studiu privind modernizarea și dezvoltarea laboratorului de Echipamente de navigație. Robotică navală*" – membru
7. Proiect Științific de Cercetare-Dezvoltare nr. 131/2019 " *Studiu privind dezvoltarea unui laborator de Oceanografie fizică. Hidrografie marină*" – membru
8. Proiect Științific de Cercetare-Dezvoltare nr. 138/2019 " *Analiza teoretică și experimentală a calității aerului și a surselor de poluare din incinte*" – membru
9. Proiect " *Modernizarea bazei de cercetare aplicativă și instruire practică, pentru dezvoltarea abilităților de proiectare și cercetare, a studentilor, masternzilor și doctoranzilor din Universitatea Maritimă Constanța*" – cod proiect CNFIS-FDI-2019-0504 – membru

10. Proiect ”*Stagii de practică inovative pentru dobândirea de competențe în sectoarele economice cu potențial competitiv*” , Cod emis: 133383, Cod apel: POCU/626/6/13/133383, Proiect cofinanțat din Fondul Social European prin Programul Operațional Capital Uman 2014-2020-, Poziția în cadrul proiectului: Expert organizare/desfășurare/evaluare stagii de practică