Name of teacher:	Ivan Dražić	
Employed at: Since:	University of Rijeka, Faculty of Engineering 30.09.2022.	
Academic rank: Since: In:	Associate Professor Applied Mathematics and Mathematical Modelling, Natural sciences	
e-mail address, web pa	ivan.drazic@uniri.hr; https://riteh.uniri.hr/osoba/ivan-drazic/	
Knowledge of foreign I	anguages English, german (active); italian (passive)	
Qualifications	Ianguages       English, german (active); italian (passive)         - date of birth, nationality: 13.05.1980., Croatian       -         - First degree obtained at:       University of Rijeka, Faculty of Humanities and Social Sciences in Rijeka, title: Professor of Mathematics and Informatics (2004), Master's thesis: Distributions and Differential Equations in the Space of Distributions, mentor: N. Mujaković, Ph.D.         - Ph.D. degree obtained at:       University of Zagreb, Faculty of Science – Department of Mathematics, postgraduate scientific study of mathematics, title: PhD (2014), dissertation: Spherical symmetrical three-dimensional non-stationary motion of micropolar compressible viscous fluid, mentors: Prof. N. Mujaković, Ph.D. and Prof. Z. Tutek, Ph.D.         - additional education: -       -         - previous employments:       1.         1.       2017 – 2022, University of Rijeka, Faculty of Engineering, Department of Applied Mathematics, Physics, Foreign Languages and Kinesiology, Department of Applied Mathematics, Physics, Foreign Languages and Kinesiology, Department of Applied Mathematics, Prosinor lecturer         3.       2010 – 2016, University of Rijeka, Faculty of Engineering, Department of Applied Mathematics, Physics, Foreign Languages and Kinesiology, Department of Applied Mathematics, Physics, Foreign Languages and Kinesiology, Department of Applied Mathematics, Physics, Foreign Languages and Kinesiology, Department of Applied Mathematics, Physics, Foreign Languages and Kinesiology, Department of Applied Mathematics, Physics, Foreign Languages and Kinesiology, Department of Applied Mathematics, Physics, Foreign Languages and Kinesiology, Department of Applied Mathematics, Physics, Foreign Languages and K	

List of papers published in scientific journals	<ol> <li>Čotić Poturić, V., Čandrlić, S., Dražić, I.: A Scoring Algorithm for the Early Prediction of Academic Risk in STEM Courses, Algorithms (2025), 18(4), 177, JCR 2023: Q1 (Computer Science, Theory &amp; Methods), IF: 1.8, doi: 10.3390/a18040177</li> <li>Žužić, L., Dražić, I., Simčić, L., Hržić, F., Lerga, J.: A Bayesian and Markov chain approach to short-term and long-term personal watercraft trajectory forecasting, Journal of the Franklin Institute, 362 (3), 107509, JCR 2023: Q1 (Mathematics, Interdisciplinary applications), IF: 3.9</li> <li>Črnjarić, N., Dražić, I.: A Comprehensive Model and Numerical Study of Shear Flow in Compressible Viscous Micropolar Real Gases, Axioms (2024), 13 (12), 845, JCR 2023: Q1 (Applied mathematics), IF: 1.9</li> </ol>
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	symmetric compressible micropolar fluid flow with real gas equation of state,
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5.	Bašić-Šiško, A., Dražić, I.: Global existence theorem of a generalized solution for a
	one-dimensional thermal explosion model of a compressible micropolar real
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6.	Bašić-Šiško, A., Dražić, I.: Uniqueness of a generalized solution for a one-
	dimensional thermal explosion model of a compressible micropolar real
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7.	Bašić-Šiško, A., Dražić, I.: Local existence theorem for micropolar viscous real gas
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	IF: 3.007
8.	Bašić-Šiško, A., Dražić, I.: One-dimensional model and numerical solution to the
	viscous and heat-conducting reactive micropolar real gas flow and thermal
	explosion, Iranian Journal of Science and Technology – Transactions of Mechanical
	Engineering 47, 19-39 (2023), JCR 2020: Q3 (Mechanical Engineering), IF: 1.596
9.	Bašić-Šiško, A., Dražić, I., Simčić, L.: One-dimensional model and numerical
	solution to the viscous and heat-conducting micropolar real gas flow with
	homogeneous boundary conditions, Mathematics and Computers in Simulation,
	195, 71-81 (2022), JCR 2020: Q1 (Applied mathematics), IF: 2.463
10	Bašić-Šiško, A., Dražić, I.: Local existence for viscous reactive micropolar real gas
	flow and thermal explosion with homogeneous boundary conditions, Journal of
	Mathematical Analysis and Applications, 509 (2), 125988 (2022) JCR 2020: Q1
	(Mathematics), Q2 (Applied mathematics), IF: 1.583
11	Bašić-Šiško, A., Dražić, I., Uniqueness of generalized solution to micropolar viscous
	real gas flow with homogeneous boundary conditions, Mathematical Methods in the
	Applied Sciences, 44 (6), 4330-4341 (2021), DOI: 10.1002/mma.7032, JCR 2020:
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12	Bašić-Šiško, A., Dražić, I., Global solution to a one-dimensional model of viscous
	and heat-conducting micropolar real gas flow, Journal of Mathematical Analysis and
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10	Q1 (Mathematics), Q2 (Applied mathematics), IF: 1.583
13	Dražić, I., Črnjarić-Žic, N., Simčić, L.: A shear flow problem for compressible viscous
	micropolar fluid: derivation of the model and numerical solution, Mathematics and
	Computers in Simulation 162, pp 249-267 (2019), JCR 2017: Q1 (Applied
	mathematics), IF: 1.476
14	Huang, L., Dražić, I.: Exponential stability for the compressible micropolar fluid with
	cylinder symmetry in R <sup>A</sup> 3, Journal of Mathematical Physics 60, 021507, pp 1-
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10	Dražić, I., Mujaković, N., Local existence of the generalized solution for three- dimensional compressible viscous flow of micropolar fluid with cylindrical symmetry,
	Boundary value problems 2019 (16), pp 1-25 (2019), JCR 2017: Q1 (Mathematics),
	Q2 (Applied mathematics), IF: 1.156
16	Dražić, I.: Dimensionless formulation for the one-dimensional compressible flow of
10	the viscous and heat-conducting micropolar fluid, Physics & Astronomy International
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17	Huang, L., Dražić, I.: Large-time behavior of solutions to the 3-D flow of a
	compressible viscous micropolar fluid with cylindrical symmetry, Mathematical
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	of the theory and recent progress, Global and Stochastic Analysis 5 (1), pp. 45-55 (2018)
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	<i>symmetry: a global existence theorem</i> , Mathematical Methods in the Applied Sciences 40 (13), pp. 4785-4801 (2017), JCR 2016: Q2 (Applied mathematics), IF: 1.017
21.	Dražić, I., Črnjarić-Žic, N., Mujaković, N.: <i>Three-dimensional compressible viscous micropolar fluid with cylindrical symmetry: derivation of the model and a numerical solution</i> , Mathematics and Computers in Simulation 140, pp. 107–124 (2017), JCR
22.	2016: Q2 (Applied mathematics), IF: 1.218 Mujaković, N., Simčić, L., Dražić, I.: <i>3-D flow of a compressible viscous micropolar</i> <i>fluid with cylindrical symmetry: uniqueness of a generalized solution</i> , Mathematical Methods in the Applied Sciences 40 (7), pp. 2686–2701 (2017), JCR 2016: Q2
23.	(Applied mathematics), IF: 1.017 Dražić, I., Mujaković, N., Simčić, L.: <i>3-D flow of a compressible viscous micropolar</i> <i>fluid with spherical symmetry: regularity of the solution</i> , Journal of Mathematical Analysis and Applications 438 (1), pp. 162-183 (2016), JCR 2014: Q1 (Mathematics), Q2 (Applied mathematics), IF: 1.120
24.	Dražić, I., Mujaković, N., <i>3-D flow of a compressible viscous micropolar fluid with spherical symmetry: large time behavior of the solution</i> , Journal of Mathematical Analysis and Applications 431 (1), pp. 545-568 (2015), JCR 2014: Q1 (Mathematics), Q2 (Applied mathematics), IF: 1.120
25.	Dražić, I., Mujaković, N., <i>3-D flow of a compressible viscous micropolar fluid with spherical symmetry: a global existence theorem</i> , Boundary value problems 98, pp. 1-21 (2015), JCR 2014: Q1 (Mathematics), Q2 (Applied mathematics), IF: 1.014
26.	Mujaković, N., Dražić, I., <i>3-D flow of a compressible viscous micropolar fluid with spherical symmetry: uniqueness of a generalized solution</i> , Boundary value problems 226, pp. 1-17 (2014), JCR 2013: Q1 (Mathematics), Q2 (Applied mathematics), IF: 0.836
27.	Dražić, I., Mujaković, N., <i>3-D flow of a compressible viscous micropolar fluid with spherical symmetry: a local existence theorem,</i> Boundary value problems 69, pp. 1-28 (2012), JCR 2011: Q1 (Mathematics), Q2 (Applied mathematics), IF: 0.911
28.	Mujaković, N., Dražić, I., <i>The Cauchy problem for one-dimensional flow of a compressible viscous fluid: stabilization of the solution</i> , Glasnik matematički 46 (1), pp. 215-231 (2011), JCR 2010: Q3 (Mathematics), Q4 (Applied mathematics), IF: 0.475
29.	Dražić, I., Barišić, B., Mujaković, N. <i>Implementation of Shishkin mesh in the modelling of spring-mass system</i> , Transaction of the VŠB – Technical University of Ostrava LVI (1), pp. 49-52 (2010),
30.	Dražić, I., Barišić, B., Jurasić, K. <i>Modeling of orthoptic curve associated to couple of circles</i> , Technological engineering 6 (2), pp. 13-16 (2009)
31.	Dražić, I., Mujaković, N., <i>Approximate solution for 1-D compressible viscous</i> <i>micropolar fluid model in dependance of initial conditions,</i> International Journal of Pure and Applied Mathematics 42, pp. 535-540 (2008)
32.	Dražić, I., Barišić, B., Mujaković, N., <i>The implementation of iterative outer</i> approximation method for elasto-plastic torsion problem, Technological engineering 5 (1), pp. 37-39 (2008)
33.	Mujaković, N., Dražić, I., <i>Numerical approximations of the solution for one- dimensional compressible viscous micropolar fluid model</i> , International Journal of Pure and Applied Mathematics 38, pp. 285-296 (2007)

proof of teaching qualifications	All works from the previous list	
Leader of the following research projects	<ul> <li>Project of Initial Support to Research of the University of Rijeka No. 17.10.2.2.01, Initial-Edge Problems in the Research of Micropolar Continuum Models, principal investigator (2017)</li> <li>Project of Initial Support to Research of the University of Rijeka no. 16.09.2.2.01, Initial-edge problems in the research of compressible micropolar thermally conductive fluid, principal investigator (2016)</li> </ul>	

Participant in the following research projects	1.	HRZZ project Multiscale Problems in Fluid Mechanics (HRZZ-IP-2019-04-1140)
	2.	UNIRI Projects of Experienced Scientists 2023: Mathematical Modeling of
		Micropolar Fluid and Numerical Spectral Analysis Using Data-Driven Algorithms (uniri-experienced-nature-23-184)
	3.	UNIRI Projects of Experienced Scientists 2023: Development of an Information
		System for Early Detection of Failure in Students in STEM Subjects (uniri- experienced-society-23-236)
	4.	Support to the research of the University of Rijeka: Analysis of mathematical models of fluid mechanics and technical systems using data-driven algorithms for the Koopman operator (uniri-prirod-18-118-1257)
	5.	The research support project of the University of Rijeka no. 13.14.1.3.03, Mathematical and Numerical Modeling kompresibilnog mikropolarnog fluida

Supervision of PhD theses	1 completed, 2 in progress
Examination of PhD theses	0