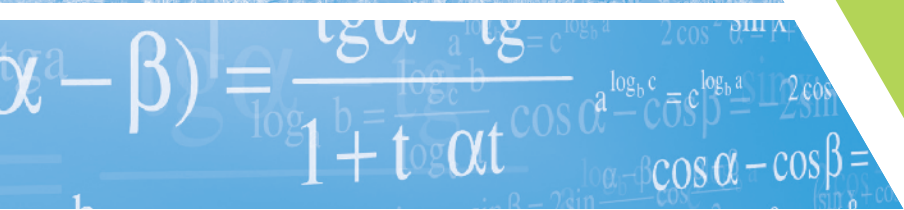




Univerza v Mariboru



Programska skupina
Računsko intenzivni kompleksni sistemi

FNM v 2021



Fakulteta za
naravoslovje in
matematiko

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UVODNA BESEDA DEKANA

Programska skupina *Računsko intenzivni kompleksni sistemi*, ki pod vodstvom **prof. dr. Matjaža Perca** deluje na Fakulteti za naravoslovje in matematiko (FNM) Univerze v Mariboru v sodelovanju s kolegi iz Fakultete za kemijo in kemijsko tehnologijo, je s svojimi delom in rezultati v tretjem letu delovanja več kot upravičila njeno ustanovitev in obstoj. Deluje v skladu z naravnostjo in vrednotami matične fakultete, kjer si nenehno prizadevamo za visoko kakovost našega dela in po večini uveljavljenih kriterijev umeščenost **v sam vrh raziskovalne odličnosti**. Programska skupina po relativni raziskovalni uspešnosti glede na financiranje (število FTE) ostaja **druga najboljša** izmed vseh programskih skupin. Veseli nas, da s tem pomembno prispevamo tudi k raziskovalni odličnosti Univerze v Mariboru in širše regije. Raziskovalcem na FNM tako še naprej uspeva ustvarjati največjo dodano vrednost, torej največ rezultatov glede na vložena javna sredstva.

Samostojna programska skupina fakulteti zagotavlja sistemsko financiranje raziskovalne dejavnosti, kar bo odpravilo enega največjih dosedanjih očitkov ob **akreditacijah s strani NAKVIS**. Na osnovi lastne programske skupine smo uspešni pri kandidaturi na razpisu za mlade raziskovalce. Pri tem ne gre zgolj za dodatne raziskovalce, ampak tudi za prispevek h **krepitevi ustvarjalnosti in kreativnosti** med mladimi v tem okolju. Nedvomno se vsak tak prispevek prej ali slej zrcali tudi pri gospodarski rasti in bolj uravnoteženemu splošnem razvoju naše regije.

Raziskovanje članic in članov ob že omenjeni raziskovalni odličnosti zaznamuje tudi **aktualnost in odzivnost na razmere v družbi**, saj se je skupina raziskovalcev takoj vključila v raziskovanje širjenja epidemije in njenih učinkov, nekaj članov programske skupine pa je bilo izjemno aktivnih tudi pri prostovoljnem gibanju FNM »Razlagamo.si«.

Pričujoča publikacija kaže na izjemno motiviranost in zanos, ki ga je programska skupina razvila med njenimi članicami in člani. Matjažu se iskreno zahvaljujem za vodenje in podporo, s katero **krepi pripadnost v kolektivu**, kar zagotavlja razvoj timskega sodelovanja pri raziskovanju in največje sinergijske učinke. Hvaležnost izražamo tudi vsem, ki ste nam zaupali ob ustanavljanju programske skupine in nam še naprej pomagata pri delu.

vršilec dolžnosti dekana FNM

Blaž Zmazek

UVODNA BESEDA VODJE PROGRAMSKE SKUPINE

Na Fakulteti za naravoslovje in matematiko je januarja 2019 začela teči naša prva matična programska skupina z naslovom Računsko intenzivni kompleksni sistemi, ki bo torej ob koncu leta 2021 praznovala svojo tretjo obletnico. Primarni cilj naše programske skupine ostaja združiti znanja s področja fizike, biologije, matematike in računalništva v inovativnem raziskovalnem delu, katerega cilj je postaviti Slovenijo v svetovni vrh raziskav na področju kompleksnih sistemov. Z odličnim delom v preteklih treh letih smo že zelo blizu temu cilju, tako po številu kot tudi kvaliteti objav, kakor tudi njihovi mednarodnih odmevnosti.

V enakem obdobju lani smo objavili 129 izvirnih znanstvenih člankov. Eno leto kasneje imamo že 210 izvirnih znanstvenih člankov. Gre torej za vrhunske objave, kar potrjujejo tudi številna vabljenja predavanj na konferencah po vsem svetu, kakor tudi zaupanje širše raziskovalne skupnosti članom programske skupine z uredniškim delom v najboljših fizikalnih in interdisciplinarnih raziskovalnih periodikah. Tudi citati so impresivni. Namreč, več kot 57000 čistih citatov smo zbrali člani programske skupine v zadnjih 10-ih letih, 32000 več kot v eno leto starejšem 10-letnem obdobju, naš skupni h-indeks pa je narasel iz 83 na 102.

Veseli in ponosni smo, da poleg izjemnega znanstveno-raziskovalnega dela zelo aktivno in uspešno delujemo tudi strokovno v slovenskem raziskovalnem prostoru. Še posebej smo ponosni, da je dekan, prof. dr. Blaž Zmazek prejel priznanje Jabolko navdiha, v marcu 2021. Priznanje Jabolko navdiha podeljuje predsednik Republike Slovenije Borut Pahor. Prof. dr. Zmazek je tako postal eden izmed 17 »herojev korone« po izboru bralcev slovenskih regionalnih spletnih medijev, ki so prejeli omenjeno priznanje.

Prepričani smo, da je do sedaj opravljeno odlično delo uvod v še boljše nadaljevanje dela v naši programski skupini, o čemer bomo vselej z veseljem poročali v četrtem zborniku, katerega tretji izvod sledi na naslednjih straneh. Še pred tem pa iskrena hvala vsem članom programske skupine za predanost vrhunskemu znanstveno-raziskovalnemu delu.

Vodja programske skupine

Matjaž Perc

PROGRAM P1-0403

- RAČUNSKO INTENZIVNI

KOMPLEKSNI SISTEMI

Vodja programa: red. prof. dr. Matjaž Perc

Raziskovalna / Razvojna dejavnost:

Naravoslovje / Matematika / Numerična in računalniška matematika

Kategorizacija po metodologiji ARRS - naravoslovje (2019):

Kvalitativne ocene		
A1 - objave	Točke	Ocena
Upoštevane točke	2672.72	4.00
A" - izjemni dosežki	362.61	0.24
A' - zelo kvalitetni dosežki	1405.68	0.94
A1/2 - pomembni dosežki	1849.72	1.00
Ocena A1		6.18
Citiranost		Podatki
CI10 - število čistih citatov znanstvenih del v zadnjih 10 letih (2009-2019)		21158
CI _{max} - najodmevnejše delo v zadnjih 10 letih (2009-2019)		1037
h-indeks v zadnjih 10 letih (2009-2019)		77

Kategorizacija po metodologiji ARRS - naravoslovje (2020):

Kvalitativne ocene		
A1 - objave	Točke	Ocena
Upoštevane točke	2528.50	4.00
A" - izjemni dosežki	399.09	0.27
A' - zelo kvalitetni dosežki	1179.77	0.79
A1/2 - pomembni dosežki	1828.45	1.00
Ocena A1		6.06
Citiranost		Podatki
CI10 - število čistih citatov znanstvenih del v zadnjih 10 letih (2010-2020)		24605
CI _{max} - najodmevnejše delo v zadnjih 10 letih (2010-2020)		1134
h-indeks v zadnjih 10 letih (2010-2020)		83

Kategorizacija po metodologiji ARRS - naravoslovje (2021):

Kvalitativne ocene		
A1 - objave	Točke	Ocena
Upoštevane točke	3306,80	4,00
A'' - izjemni dosežki	564,57	0,38
A' - zelo kvalitetni dosežki	1864,58	1,00
A1/2 - pomembni dosežki	2320,69	1,00
Ocena A1		6,38
Citiranost		Podatki
CI10 - število čistih citatov znanstvenih del v zadnjih 10 letih (2010-2020)		57186
CI _{max} - najodmevnejše delo v zadnjih 10 letih (2010-2020)		9112
h-indeks v zadnjih 10 letih (2010-2020)		102

Kategorizacija po metodologiji ARRS - naravoslovje (2019, 2020 in 2021):

Kvalitativne ocene		
A1 - objave	Točke	Ocena
Upoštevane točke	9625,92	4,00
A'' - izjemni dosežki	1581,64	1,00
A' - zelo kvalitetni dosežki	4881,87	1,00
A1/2 - pomembni dosežki	6285,12	1,00
Ocena A1		7,00
Citiranost		Podatki
CI10 - število čistih citatov znanstvenih del v zadnjih 10 letih (2011-2021)		57186
CI _{max} - najodmevnejše delo v zadnjih 10 letih (2011-2021)		9112
h-indeks v zadnjih 10 letih (2011-2021)		102

ČLANI PROGRAMSKE SKUPINE



asist. dr. PETRA CAJNKO

raziskovalno področje: Naravoslovje / Matematika in
Družboslovje / Ekonomija / Vzgoja in izobraževanje

https://scholar.google.si/citations?view_op=list_works&hl=sl&hl=sl&user=nC6QKTIAAAAJ



doc. dr. BRINA DOJER

raziskovalno področje: Kemija

<https://scholar.google.com/citations?user=N-RUp1QAAAAJ>



mag. PETRA FIC ŽAGAR

raziskovalno področje: Naravoslovje / Računalniško intenzivne
metode in aplikacije



red. prof. dr. AJDA FOŠNER
raziskovalno področje: Naravoslovje / Matematika



doc. dr. BOJAN HVALA
raziskovalno področje: Matematika / Algebra
<https://scholar.google.com/citations?user=gh9tmIYAAAAJ>



red. prof. dr. FRANČ JANŽEKOVICH
raziskovalno področje: Biologija / Zoologija in zoofiziologija
<https://scholar.google.com/citations?user=Qy0mND4AAAAJ>



doc. dr. EVA KLEMENČIČ

raziskovalno področje: Naravoslovje / Fizika

<https://scholar.google.com/citations?hl=sl&user=lgataCIAAAAJ>



doc. dr. TINA KLENOVŠEK

raziskovalno področje: Biologija / Zoologija in zoofiziologija

<https://scholar.google.com/citations?user=S9tZNiYAAAAJ>



doc. dr. VESNA KLOKOČOVNIK

raziskovalno področje: Biologija

<https://scholar.google.com/citations?user=aPuDdx8AAAAJ>



izr. prof. dr. REBEKA KOVAČIČ LUKMAN
raziskovalno področje: Tehnika / Kemijsko inženirstvo



prof. dr. MITJA LAINŠČAK
raziskovalno področje: Medicina / srce in ožilje
<https://scholar.google.com/citations?hl=sl&user=8MFdldcAAAAJ>



doc. dr. JANJA MAJER KOVAČIČ
raziskovalno področje: Naravoslovje / kemija



red. prof. dr. MATJAŽ PERC

raziskovalno področje: Fizika / Teoretična fizika

<https://scholar.google.com/citations?user=nfY5WDMAAAAJ>



doc. dr. IGOR PESEK

raziskovalno področje: Računalništvo in informatika / Inteligentni sistemi - programska oprema

<https://scholar.google.com/citations?user=SkJ3wy4AAAAJ>



doc. dr. NATAŠA PIPENBAHER

raziskovalno področje: Biologija

<https://scholar.google.com/citations?user=HM4D-z0AAAAJ>



izr. prof. dr. MATEJA PLOJ VRTIČ

raziskovalno področje: Vzgoja in izobraževanje

<https://scholar.google.com/citations?user=sDwBS0UAAAAJ>



doc. dr. JAN PODLESNIK

raziskovalno področje: Biologija / Zoologija in zoofiziologija

<https://scholar.google.com/citations?hl=sl&user=Xi1WnHAAAAAJ>



izr. prof. dr. MITJA SLAVINEC

raziskovalno področje: Fizika / Fizika kondenzirane materije



izr. prof. dr. NINA ŠAJNA

raziskovalno področje: Biologija / Botanika

https://scholar.google.com/citations?user=_PsQRvcAAAAJ



izr. prof. dr. SONJA ŠKORNIK

raziskovalno področje: Biologija / Botanika

<https://scholar.google.com/citations?user=FWG4Mq0AAAAJ>



red. prof. dr. BLAŽ ZMAZEK

raziskovalno področje: Matematika / Teorija grafov

<https://scholar.google.com/citations?user=cSlpproAAAAJ>



doc. dr. MILAN SVETEC
raziskovalno področje: Naravoslovje / fizika



asist. MARKO ŠTERK
raziskovalno področje: Medicina / Metabolne in hormonske motnje
<https://scholar.google.com/citations?user=fsqf5lcAAAAJ&hl=sl>



asist. dr. TADEJA VAJDIČ
raziskovalno področje: Biotehnika / Biotehnologija



doc. dr. JERNEJ ZAVRŠNIK

raziskovalno področje: Medicina / Javno zdravstvo (varstvo pri delu)

PUBLIKACIJE

Število posameznih publikacij:

Ilzvirni znanstveni članek: 210

Pregledni znanstveni članek: 10

Kratki znanstveni prispevek: 9

Strokovni članek: 21

Poljudni članek: 8

Poleg zgoraj naštetega so člani programske skupine objavili še: objavljeni strokovni prispevek na konferenci (vabljeni predavatelj), 17 objavljenih znanstvenih prispevkov na konferenci, 1 objavljen strokovni povzetek na konferenci, 6 objavljenih povzetkov znanstvenih prispevkov na konferenci (vabljeni predavatelj), 56 objavljenih povzetkov znanstvenega prispevka na konferenci, 5 objavljenih povzetkov strokovnih prispevkov na konferenci, 13 samostojnih znanstvenih sestavkov ali poglavij v monografski publikaciji, 12 samostojnih strokovnih sestavkov ali poglavij v monografski publikaciji, znanstveno monografijo, učna gradiva, 2 patenta in številna druga dela.

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2018-11-27 Zoisova nagrada
2019-06-26 Častni doktorat Istanbul Technical University
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