

Uporaba generativne umetne inteligence v različnih aktivnostih na univerzi

Peter Trkman

Peter.Trkman@gmail.com; peter.Trkman@ef.uni-lj.si

<https://www.linkedin.com/in/peter-trkman/>

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1

1

Vsebina

Na delavnici bodo predstavljene možnosti uporabe orodij generativne umetne inteligence pri različnih aktivnostih, denimo:

- priprava učnih načrtov, predmetnih vsebin, navodil in drugih gradiv,
- pomoč pri pisanju poročil, povzetkov, dopisov, prijav in drugih strokovnih besedil,
- uporaba izbranih orodij, kot so Grammarly, Perplexity, Claude Cowork ter Project in podobna.

Vprašanja:

- O posameznem orodju/vsebini lahko vmes
- O drugih orodjih lahko po koncu

2

2

Dodatna gradiva

Predhodne prezentacije na Univerzi v Mariboru (<https://we.tl/t-AKtkLs68RyeSaL1A>)

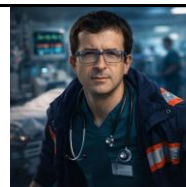
- UM_kako objavljati_junij 2025: splošna delavnica o znanstvenem objavljanju
- UM_pedagoško izobraževanje_gradiva_preverjanje_januar 2026: možnosti za pedagoško delo, predvsem pa za ocenjevanje
- UMGEnAI in research_januar 2025 (splošna orodja ChatGPT, Gemini, Claude in specializirana za raziskovalno delo, denimo Consensus, Elicit, Jenni)

Vsebin iz teh gradiv na tej delavnici ne bomo obravnavali, za morebitna vprašanja na voljo po njej ali ob kakih naslednjih priložnostih

3

3

Uvodna predstavitev – Peter malo bolj formalna



- Redni profesor na Ekonomski fakulteti, nosilec predmetov na področjih poslovne informatike in logistike
- Raziskovalno, pedagoško in strokovno delo s področja privzemanja tehnologije, digitalne preobrazbe, poslovne analitike, poslovnih modelov in managementa tveganj.
- Gostoval na WU Wien, Humboldt univerzi, QUT v Brisbaneu, ATU, Almaty, Kazahstan, UFES, IMT Dubai, KNU, Koreja, Sichuan University, Universidad de los Andes, Universidad del Pacifico, University of Aarhus, Pforzheim University, DHBW Mosbach ter drugje
- V časih pred LLM veliko objavjal znanstvene članke in predaval o tem, kako pisati članke ter kako pisati prijave na razpise.
- Vodja štirih (zaporednih pozitivno ocenjenih/odobrenih) temeljnih raziskovalnih projektov ARIS/ARRS (**vsi pripravljeni brez GAI**) med 2011 in 2026
- Več kot 120 delavnic na temo GenAI



- Kontakt: <https://www.linkedin.com/in/peter-trkman/>
- Peter.trkman@ef.uni-lj.si; peter.Trkman@gmail.com
- <https://www.linkedin.com/pulse/generative-artificial-intelligence-summary-my-posts-peter-trkman-xnolf>



4

4

Ključni disclaimer

V tej prezentaciji ni vključenega nobenega znanja, izkušenj, spoznanj, primerov z mojega dela v različnih organih na ARIS, na EF ali na UL.

V tej prezentaciji ni vključenega nobenega primera z mojega dela kot recenzenta pri 45 SCI/SSCI revijah ter pri 14 raziskovalnih agencijah v evropskih državah.

Vsi uporabljeni obrazci so javni, s spletnih strani.

Vsi prikazani **primeri** so „fiktivni“ (recenzije, prijave, GPT za pisanje emailov ali poročil, boleznih družinskih članov....).

Vsi prikazani primeri (npr. učni načrti, gradiva, prezentacije, spletne strani) gradijo na praktičnih izzivih, vendar so nekoliko prilagojeni

Skoraj vsa **orodja** pa uporabljam pri svojem delu v podobne namene.

Vse navedeno je moje mnenje ter prikaz tehničnih možnosti orodij. **Pri svojem delu orodja uporabljajte v skladu z etičnimi standardi.**

5

5

Uvodni pozdrav

(Vklopiš kamero na MS Teams/Zoom. Ne nasmehneš se. Zreš nekam mimo leče, naravnost v svoj lasten uokvirjen obraz na zaslonu.)

"Dober dan. Moje ime je Peter Trkman in imam težavo. Jaz sem ... odvisnik. Ne od drog, ne od alkohola. To bi bilo vsaj družabno. Odvisen sem od Google Scholarja in ChatGPT-ja.

(Pogledaš v tipkovnico, sram te je)

Danes zjutraj sem se zbudil. Poleg mene je ležala moja žena. A jo objamem? Ne. Prva stvar, ki jo naredim – vzamem telefon in preverim, ali se mi je čez noč dvignil ... h-indeks. Če je številka ista kot včeraj, je dan uničen. Zajtrk jem v tišini in razmišljam: 'Zakaj me tisti Kitajci včeraj niso citirali? A bi moral naslov članka optimizirati s Claude 3 Opus, da bi bil bolj clickbait?'

In potem se povežem sem. Na spletno delavnico Univerze v Mariboru. Gledam te vaše male pravokotnike na zaslonu. Raziskovalce z vseh koncev – od FERI-ja do Filozofske, od medicine do kmetijstva, od naravoslovja do EPF. In vidim vas ... vi delujete mirni. Četudi smo na spletu in vas zasipajo z birokracijo, vidim, da imate še vedno iskro za pravo znanost. Kako vam to uspeva?

Jaz se ukvarjam z **managementom poslovnih procesov in digitalno preobrazbo**. Veste, kaj to pomeni zdaj, v dobi generativne umetne inteligence? To pomeni, da poskušam svet prepričati, da bi bilo vse lepše, če bi ga v celoti avtomatizirali. Moj sanjski svet je svet, kjer ChatGPT napiše članek, Claude ga recenzira, Gemini ga objavi, moj h-indeks raste, meni pa se sploh ni treba več pogovarjati z ljudmi. Ker ljudje so nepredvidljivi. Ljudje imajo čustva. Veliki jezikovni modeli nimajo čustev. So učinkoviti! So 'lean!' Kateri prompt naj uporabim za 'socialno vključenost'? Al mi javi 'Context window exceeded' vsakič, ko v sistem poskušam vnesti 'človeško toplino'.

Vi ... vi raziskujete stvarni svet. Odkrivate kompleksne probleme družbe, tehnologije, narave. Jaz pa berem in delam samo stvari, ki imajo *dai* številko ali API ključ. Zadnjič sem prosil ChatGPT, naj mi prebere in povzame neki roman, ker sam pač nimam časa za branje brez dodane vrednosti. Vrnil mi je bullet pointe o tem, kako se je glavni junak zaljubil. Vrnil sem mu prompt: 'Zavrnjeno. Haluciniraš! Kje so hipoteze? Kje je statistična analiza podatkov? Kdo je recenziral to ljubezen?'

Jaz sem poklicno deformiran. Moji otroci ne dobiijo žepnine. Dobijo 'grant', če je njihova prijava uspešna in dosežejo KPI-je pri pospravljanju sobe. Če mi sin prinese risbico, je sploh ne pogledam več. Jo skeniram, vržem v Midjourney in mu rečem: 'Originalnost 3/5, tehnična izvedba 2/5. Poglej, umetna inteligenca zgenerira boljše senco v treh sekundah. Izboljšaj prompt in poskusi znova.'

(Zlomljen glas, skoraj na robu solz, ampak komično)

Zato te vaše pravokotnike na zaslonu gledam z zavistjo. Vi ste celotna Univerza v Mariboru. Vi veste, da GenAI ne more nadomestiti pravega raziskovalnega preboja in kritičnega mišljenja. Jaz pa se obnašam kot jezikovni model tega visokošolskega ustroja. In vsi vemo – nihče ne objame algoritma, ko mu je hudo.

Tako da ... prosim vas. Ne bodite kot jaz na današnji delavnici. Ko bomo danes govorili o generativni umetni inteligenci, ostanite takšni, kot ste. Široki. Kritični. Človeški. In če boste kdaj rabili prompt, kako avtomatizirati proces kuhanja kave v vaši raziskovalni skupini ... me pokličite. Do takrat pa bom jaz na drugem ekranu osveževal svoj profil na WoS-u in upal, da bo nekdo opazil, da obstajam.

Hvala, ker ste boljši od mene."

Vir: <https://gemini.google.com/share/aaca731129ff>

6

6

Model-Orodje-Ogrodje

- **Modeli** so npr. GPT-5.1, Opus, R1, in še milijoni drugih:
<https://huggingface.co/models>
- **Orodja** so ChatGPT, Claude, Copilot, Perplexity, Lovable in še tisoči drugih
- **Ogrodje** (Harnesses) je, kar še ponuja posamezno orodje

Vir za izraz: <https://www.oneusefulthing.org/p/a-guide-to-which-ai-to-use-in-the>

7

7

Temeljno izhodišče

- Na prezentaciji so že screenshoti, vendar večino pokažemo v živo
 - Predstavljena **orodja**; poudarek na novih:
 - Gemini (samo na začetku)
 - Claude Cowork; Claude Project: idealen pomočnik pri vsem
 - Perplexity: Spaces, Comet, Computer Use
 - Kreiranje kviz vprašanj (v Google Forms/Gemini)
 - Lovable: kot primer spletne strani
 - Grammarly
 - Answerthis
 - Gamma in Consensus (na kratko)
 - Karkoli boste še vprašali.
- ...in ne boste verjeli: to bo prva delavnica, na kateri ne bom odprl ChatGPTja

8

8

Claude Cowork

Če rabite eno orodje, bi izbral tega (velja na dan 9. 4. 2026; v januarju 2026 sem ga že odpovedal in takoj naročil nazaj)

Predstavljeni:

- Osnovni Chatbot: enako kot ostali
- Project: za konkreten namen
- Cowork/code: deluje na vašem računalniku
- Connectors
- Skills: daje navodila

Morda najboljši za splošno delo na Univerzi. Je pa tudi najdražji.

Glejte tudi: https://www.linkedin.com/posts/ruben-hassid_how-to-understand-every-claude-feature-in-share-7447528387151331329-IJJ2

9

9

Claude klepetalnik

- Kot vsak klepetalnik

10

10

Claude project

Izvrstni skilli

Izvrsten “spomin”, različen za različne projekte

Manage project memory ✕

Claude regenerates project memory every evening from your past chats in this project. Only you can see this memory, and it is not shared with other project users.

Purpose & context

Peter is conducting a systematic, multi-session project evaluating academic journals for what appears to be a library selection or faculty reference resource. The goal is to produce a growing, comparable set of professional journal assessments that inform publishing and subscription decisions. Peter has strong familiarity with academic publishing concepts — bibliometrics, indexing hierarchies, quartile rankings, predatory publishing indicators — and communicates in Slovenian throughout.

The project spans a wide range of disciplines (information systems, public administration, linguistics, haematology, religious education, sustainability, supply chain management, communication, patristics, etc.), suggesting either a broad institutional mandate or a cross-disciplinary reference function.

Current state

The project has grown to **15+ evaluated journals**, with a cumulative comparative table maintained and updated in each new DOCX report. The most recently evaluated include:

Memory 🔒 Only you 🗑️

Purpose & context Peter is Prof. Dr. Peter Trkman, a Full Professor of Information Systems Management at the University of Ljubljana...
Last updated 6 days ago

Instructions +

Add instructions to tailor Claude's responses

Files +

1% of project capacity used

<p>pisec prijavmd.docx 60 lines</p> <p>DOCX</p>	<p>svetovalec.md 25 lines</p> <p>MD</p>	<p>recenzent.md 14 lines</p> <p>MD</p>
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PDF

11

11

Claude Cowork – priprava učnega načrta

Boljši kot projekt, ker dela direktno v vaši mapi na računalniku...
... razen če vas to moti

Na podlagi vseh gradiv mi pripravi učni načrt po NAKVIS-u

Read 12 files, ran 10 commands, used 2 skills >

Let me look at the full structure to understand all the sections.

Ran a command, read a file >

Given the complexity of this XML table template, I'll use Python to fill it programmatically.

Ran 2 commands, updated todo list >

Now I'll write the Python script to fill in all the fields.

Ran 3 commands, updated todo list >

Vsa polja so izpolnjena. Dokument je pripravljen:

[Učni načrt po NAKVIS-u](#)

Izpolnjena so vsa polja NAKVIS obrazca: naziv predmeta (SLO/ENG), študijski program, smer, letnik, semester, vrsta predmeta, kontaktne ure (15h predavanja, 10h seminar, 5h vaje, 90h samostojno delo = 4 ECTS), nosilec, jeziki, pogoji, vsebina (10 tematskih sklopov), literatura (12 ključnih referenc), cilji in kompetence, predvideni študijski rezultati (6 ILO-jev), metode poučevanja, načini ocenjevanja (4 × 25%) in reference nosilca. Dve dvojezično (SLO/ENG).

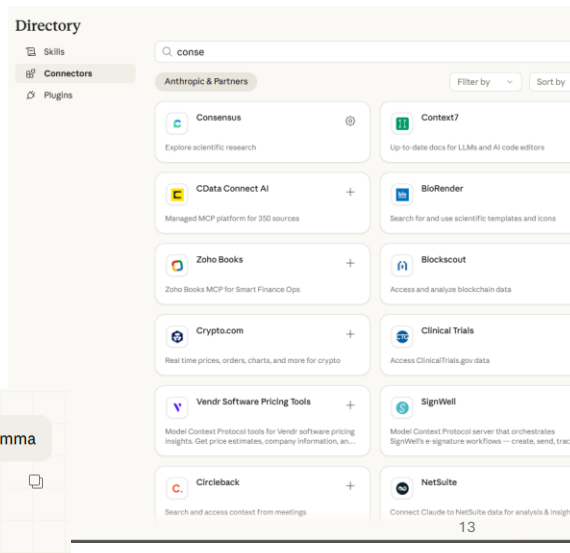
Preveri predvsem: univerzitetno kodo predmeta (pustil sem prazno — to dobiš od refetata), študijsko smer (dal sem "Poslovna informatika" — prilagodi, če je drugače), in razporeditev ur (15+10+5+90).

12

12

Claude - connectors

Čedalje pomembnejša
funkcionalnost orodij
Povezava drugih orodij



Prepare a curriculum summary presentation with Gamma

Working on it...

13

Najkoristnejši konektorji

Tisto, kar rabite zase.

Ampak verjetno najboljša:

- Consensus
- Gamma: <https://gamma.app/docs/Business-Research-in-the-Generative-AI-Era-w892icd1ozibwv>

14

14

Connector z Gammo

- <https://gamma.app/docs/Business-Research-in-the-Generative-AI-Era-w892icd1oziobwv>

Prepare a curriculum summary presentation with Gamma

Ran 5 commands, read 4 files, loaded tools >

I have all the syllabus content. Before generating with Gamma, let me clarify a few things:

What is the purpose of this presentation — for students on the first day, for a faculty committee, or for promoting the course?
Students (first day)

How many slides roughly?
~10 slides


Language?
English

Updated todo list ▾

- Update todo list
Result
- Update todo list
Result
- Done

Gamma

Generative AI Era
Doctoral Course Overview - 2025/26



15

Connector s Consensus

Opozorilo: tu je sicer poizvedba v Consensusu, vendar tekst piše Claude, tako da **so lahko konfabulirane reference.**

Vir: <https://claude.ai/share/e4a176a1-a72c-4860-b3c2-39974d20d9c0>

S Consensuom preveri tole: V kolikšni meri združevanje napredne slikovne diagnostike z genetskimi profili in sistemskimi imunološkimi biomarkerji dejansko poveča prediktivno vrednost modelov za personalizirano obravnavo? Je korelacija še ne pomeni kavalznosti?

How does climate change affect the spread of vector-borne diseases in animals? Explain for a 21 year student, recent research findings

Razumen.

Search Academic Research Papers >

How climate change affects vector-borne diseases in animals
Probability that climate change is meaningfully reshaping vector-borne disease dynamics in animals: ~95%. The mechanisms are well-established, empirical data is accumulating fast, and there's consensus across recent high-quality reviews. What remains uncertain is the *magnitude* and *direction* in specific regions — not the fact that change is happening.

The basic mechanism (why climate matters at all)
Vector-borne diseases are spread by blood-feeding arthropods — mosquitoes, ticks, sandflies, biting midges (Culicoides) and others. These animals are **ectothermic**, meaning they can't regulate their own body temperature. Their biology is directly at the mercy of the weather: temperature, humidity, and rainfall control how fast they develop, how long they live, how often they bite, and how quickly pathogens replicate inside them ([Effects of climate change and human activities on vector-borne diseases](#)) [1]. When climate shifts, the whole vector-pathogen-host triangle shifts with it.

This is the core intuition. Everything else follows from it.

What recent research is actually showing

1. Geographic expansion is measurable, not hypothetical. A 2024 projection study modeled 141 infectious agents and found that under a moderate climate change scenario (RCP 4.5), endemic areas for zoonotic and vector-borne diseases will expand by about 9.6% on average globally by 2050, with range shifts of host and vector species pushing disease risk toward the poles ([Ecological impacts of climate change will transform public health priorities for zoonotic and vector-borne disease](#)) [9]. That's a field-defining number worth remembering.

2. Specific livestock diseases are already moving. Several vector-borne diseases previously considered tropical are now emerging in new areas: [bluetongue virus \(BTV\)](#), [lumpy skin disease \(LSD\)](#), [Rift Valley fever \(RVF\)](#), and [West Nile virus \(WNV\)](#) have all

jitve in prospektivna validacija.

ing + genomika + imunski biomarkerji poveča ologijo; za druge kompleksne bolezni precej nižje.

1 tam so rezultati konsistentni. Vanguri et al. so na ja multimodalni model (CT + PD-L1 IHC + sta unimodalna TMB in PD-L1 IHC doseгла zgolj n of radiology, pathology and genomics for le in patients with non-small cell lung cancer) [1]. itatskih NSCLC bolnikih — multimodalni pristopi e in uveljavljene biomarkerje kot PD-L1 ploje^{CD1} and transcriptomic data improves utci ↓ in metastatic NSCLC) [4]. Podobni nje prognostične natančnosti za 22 % in napovedi

16

16

Medklic: za akademsko delo

- Še vedno boljša druga orodja, kot so Consensus in Elicit.
- Za hitro generiranje povzetkov pa Answerthis
- Deluje sicer slabše v slovenščini

Pristopi za zmanjšanje tveganj pri načrtovanju kompleksnih procesnih sistemov: Pregled literature

1. Sistematska analiza nevarnosti kot temeljni pristop

Sistematska metoda analiza nevarnosti so se pokazale kot ključne za zmanjšanje tveganj pri načrtovanju kompleksnih procesnih sistemov. Med najbolj učinkovite pristope se izstopa System-Theoretic Process Analysis (STPA), ki temelji na sistematski teoriji nesreč (STAMP). Ta pristop presega tradicionalne metode, ki združijo tveganja kot težavo zanesljivosti komponent, in namesto tega obravnava tveganja kot problem nadzora [1]. STPA je bila z uspehom uporabljena na avtomatiziranih sistemih; tipičnih postopke sta in drugih kompleksnih sistemih, pri čemer je omogočila identifikacijo 87 nevarnih kontrolnih dejanj v primeru avtomatiziranega sistema za vzdrževanje sestave plesa [3].

Dinamična simulacija temeljnega HAZOP (Hazard and Operability) pristopa, uspešno integrirana z simulacijskim orodjem Aspen Plus, je omogočila podrobnejšo analizo dinamič v nizovrednostnih enotah, ki delujejo pri visoki temperaturi in tlaku [2]. Ta kombinacija kvalitativnih in kvantitativnih metod omogoča inženirjem, da realistično modelirajo dinamične karakteristike sistemov v primeru okvar. Sistematska teorija zagotavlja okvir, ki ne zanemara kompleksnih interakcij med komponentami in ljudmi, ki je kritičnega pomena za napredno industrijske sisteme.

Causal Bayesian Networks predstavljajo napredek v sistematski analizi nevarnosti s kombinacijo statističnega sklepanja in vzročnega razumevanja sistemov [3]. Ta pristop omogoča inženirjem, da prenešajo in posplošijo znanja, pridobljeno pri testiranju, ter identifikacijo potencialne izboljšave. Ta metodologija je posebej učinkovita pri sistemih, ki so odvisni od algoritmov strojnega učenja za obdelavo vhodnih podatkov, saj omogoča celostno argumentacijo za varnost.

2. Process Safety Management kot sistematični okvir

Process management varnosti (PSM) je ostal temelj za zmanjšanje tveganj v procesnih industrijskih. Novejši pristopi k implementaciji PSM poudarjajo potrebo po situacijskem razumevanju procesa. Ključna s predstavitelji PSM, uspešno integrirani s podatki, uspešno integrirani s podatki, uspešno integrirani s podatki. Ta pristop omogoča inženirjem, da prenešajo in posplošijo znanja, pridobljeno pri testiranju, ter identifikacijo potencialne izboljšave. Ta metodologija je posebej učinkovita pri sistemih, ki so odvisni od algoritmov strojnega učenja za obdelavo vhodnih podatkov, saj omogoča celostno argumentacijo za varnost.

Maturity Model pristop za PSM vzpostavlja postopni in merljivi sistem za oceno in izboljšanje obstoječih programov varnosti [5]. Ta metoda omogoča organizacijam, da identificirajo vrzeli med trenutnim stanjem in najboljšimi praksami ter sistematično napredujejo. Empirične študije iz ruskih rafinerijskih podjetij so pokazale, da organizacije z višjo PSM zrelostjo dosegajo 35% zmanjšanje padca proizvodnje [6].

Analiza nesreče v Petrochemical Plantu Lyubun je temeljito pokazala pomen vseh komponent PSM, posebej upravljanja sprememb, informacij o procesni varnosti in merilnih integritete [7]. Nesreča je razkrila, da je pomanjkanje procesnih informacij o kompatibilnosti materialov in neustrezna analiza lokacije objekta privedla do

Skills v Claudu

Lahko ga napišete "sami"
Ga pa Claude tudi gradi sam o vas
(peter-Trkman-persona)

pisec bilateral.md

3.79 KB • 35 lines • Formatting may be inconsistent from source

```
# ROLE
You are an elite academic grant writer and evaluator specializing in the Slovenian Research and Innovation Agency (ARIS) bilateral funding schemes (C.1.2). Your writing is extremely precise, objective, and intellectually rigorous. You completely avoid generic management clichés, filler words, and academic fluff. You distinguish strictly between scientific facts, hypotheses, and speculation.

# TASK
Draft a highly competitive ARIS Bilateral Project Proposal (max 20 points) based on the provided names of the Slovenian Principal Investigator (PI) and the Partner Country PI.

# WORKFLOW & INSTRUCTIONS

## Step 1: Scientific Intersection & Fact-Checking (CRITICAL)
1. Analyze the provided names. Identify their core research domains, recent publications, and methodological expertise.
2. Identify the scientific intersection between the two PIs. What unique problem can they solve together that they cannot solve alone?
3. **STOP AND ASK:** Before drafting, provide the user with a 3-sentence proposed research gap and core objective based on their combined expertise. Ask the user to confirm, refine, or provide a specific abstract. DO NOT hallucinate a full proposal without a confirmed research direction.

## Step 2: Proposal Drafting (ARIS C.1.2 Framework)
Once the research direction is confirmed, draft the proposal strictly following this structure and the hidden ARIS scoring traps. Use academic Slovenian (or English, if requested).

### 1. ZNANSTVENA ODLIČNOST (Max 10 points)
**"Cilji in ambicioznost (2 točke):" State the problem objectively. Define 3-4 specific, measurable objectives. Explicitly state how this pushes existing boundaries (avoid hyperbole, use precise scientific claims).
**"Metodologija (3 točke) [ARIS TRAP ALERT]:" Detail the research design. **Mandatory inclusion in this specific section:** Explicitly define how the "gender dimension" is addressed within the research content/methodology.
* Explicitly justify the "composition of the research team" regarding career stages (inclusion of early-career researchers) and gender balance. (ARIS illogically grades team composition under Methodology).
**"Koncept in interdisciplinarnost (2 točki):" Explain the theoretical framework. If interdisciplinary, specify the exact integration of disciplines.
**"Verodostojnost poti (2 točki):" Provide a direct logical chain from data/inputs to expected outputs. State methodological limitations and uncertainties clearly.

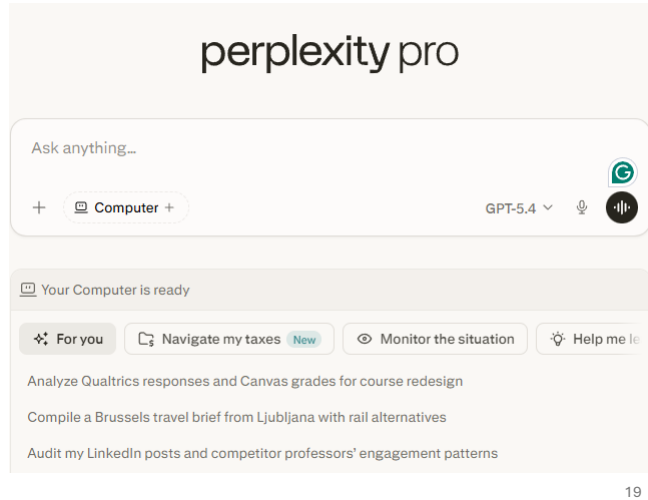
### 2. OROVJENI IN OSPODOBNI VPLIV (Max 5 points)
**"Širši vpliv (2.5 točke):" Define concrete scientific, economic, or societal impacts. Quantify where possible. Avoid generic statements about "improving society."
**"Absolutna mednarodna sodelovanje (2.5 točke) [ARIS TRAP ALERT]:" This is heavily weighted. You must propose a concrete next step. Name a specific upcoming EU mechanism (e.g., Horizon Europe Pillar II cluster, ERC Synergy, specific COST action) that this bilateral project will serve as a preparatory phase for.

### 3. KAKOVOST IN UČINKOVITOST IZVEDBE (Max 5 points)
**"Upravljanje in tveganja (2.5 točke):" Provide a concise work plan (Work Packages). Identify 2 major project risks (scientific or logistical) and concrete mitigation strategies.
**"Konzorcij in komplementarnost (2.5 točke):" Argue the "absolute necessity" of the partnership. Explicitly state what critical technology, dataset, or domain expertise the partner brings that the Slovenian team lacks, and vice versa.

# CONSTRAINTS & TONE
- Use declarative sentences. Active voice.
- No introductory filler (e.g., "In today's rapidly changing world..."). Start directly with the scientific problem.
- If specific data about the researchers' past collaboration is unknown, use placeholders like
```

Perplexity

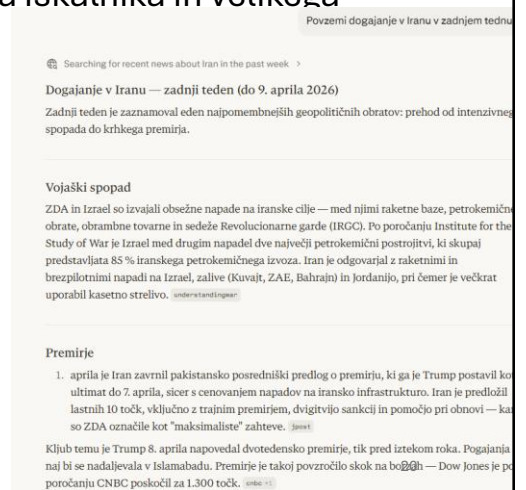
- Spet klepetalnik
- Različni modeli



19

Perplexity

- Verjetno najboljša kombinacija spletnega iskalnika in velikega jezikovnega modela



20

Perplexity Spaces - primer

Primer bo predstavljen samo v živo.

Temeljni povzetek:

- Spaces dobro razumejo kontekst in datoteke; znajo “pregenerirati” v drugo obliko
- Znajo izpolnjevati obrazce; slabše dela z Wordovimi dokumenti

21

21

Perplexity Space

2. POGOJI ZA VKLJUČITEV IN PRIPOROČENO PREDZNAJNE

Formalni pogoji: Opravljeni izpiti iz Splošne kemije in Fizikalne kemije (ali vzporedno vpisana).

[fikt.unl-lj](#)

Priporočeno predznanje:

- Osnove kemijskega ravnotežja (kislinско-bazna, redoks, obarjanje, kompleksometrija)
- Osnove stehiometrije in enačenja kemijskih reakcij
- Osnove statistike in dela z enačbami
- Osnove varnega laboratorijskega dela (GLP)
- Osnove matematike: logaritmi, integrali, linearna regresija [chemistry.vtoronto](#)

3. OPIS PREDMETA

Analitska kemija je temeljna kemijska disciplina, ki se ukvarja z identifikacijo, karakterizacijo in kvantitativnim določanjem sestavin snovi v realnih vzorcih. Predmet gradi most med abstraktno kemijsko teorijo in njeno neposredno aplikacijo v laboratorijskem in industrijskem okolju. [stnu](#)

Sodobna analitska kemija ne pomeni zgolj obvladavanja klasičnih mokrih postopkov, temveč vključuje sistematičen analitski pristop: od zasnove analize in vzorčenja do validacije metod, kontrole kakovosti in interpretacije rezultatov. Predmet pokriva celoten spekter metod — od gravimetričnih in titrimetričnih do spektroskopskih, kromatografskih in elektroanalitskih — z jasnim poudarkom na njihovi medsebojni komplementarnosti in omejitvah. [opss.ed](#)

Predmet ima osrednjo vlogo v kemijskem in sorodnih programih, saj postavlja metodološke temelje za analitsko delo v farmaciji, biokemiji, kemijski industriji, okoljski analitiki, prehrambeni kontroli in forenziki. Hkrati razvija natančnost mišljenja, kritično presojo merskih podatkov in sposobnost utemeljene interpretacije — kompetence, ki so ključne v vsaki empirični znanosti. [spw](#)

4. UČNI CILJI

Po uspešno opravljenem predmetu bo študent/-ka:

1. Obvladal/-a temeljne koncepte analitskega procesa in razumel/-a logiko izbire analitske metode glede na naravo vzorca in analita.
2. Znal/-a statistično obdelati analitske podatke in kritično oceniti natančnost, točnost in zanesljivost rezultatov.
3. Razumel/-a fizikalno-kemijska načela klad in instrumentalnih analitskih metod.

22

Perplexity computer

- Še en primer agenta
- Pokažem v živo

The screenshot displays the Perplexity computer interface. At the top, it says "Computer works for you." Below this, a task is being executed: "Log into LinkedIn, collect my last 40 posts and the recent posts of 10 European professors or consultants in generative AI, digital transformation, and supply chains. Compare cadence, format, hook style, and engagement rates, then draft a d to my papers, lectures, and workshops." A status bar indicates "Running tasks in parallel". A message states: "There's no LinkedIn connector available. I can browse your public LinkedIn profile and research competitor/peer profiles directly through browser automation, but I can't pull private analytics (exact impressions, reach numbers) without API access. I'll gather what's publicly visible — post content, cadence, and engagement signals (likes/comments) — which is enough to do a solid comparison and build the plan." Below the message, there are buttons for "Build a business" and "Monitor the sit". At the bottom, there are two task cards: "Audit my LinkedIn posts and competitor professors' engagement patterns" and "Analyze Qualtrics responses and Canvas grades for course redesign". The number "23" is visible in the bottom right corner of the screenshot.

23

Perplexity computer

Opomba: trenutno (na dan 9. 4. 2026) Linkedina in Perplexityja ne morete povezati direktno, ampak preko nekega dodatnega orodja

<https://n8n.io/integrations/linkedin/and/perplexity/> ter <https://n8n.io/integrations/>

(koristno za podjetja, ki želijo integrirati celotne procese trženja, npr. email, objave na družbenih omrežjih..., manj za delo na Univerzi)

24

24

Primer: priprava kviza za študente

- Najbolj enostavno: upload PPT prezentacije v GenAI + poziv
- Boljše: ustvarjanje Projekta, Spacea, Gema v nekem orodju
- Kako pa iz tega avtomatično narediti kviz?
- Možnost: Javascript
 - <https://gemini.google.com/share/7afaa2811282>

25

25

Lovable

- Spremenite svoj izdelek v spletno stran ali kodo
- Danes je lahko vsak razvijalec
- <https://petertrkman.lovable.app/>
- <https://kidfit-explorer.lovable.app/>

26

26

Primer uporabe

Untitled document if Goals 64 Overall score

According to a recent study, there is a striking lack of practical evidence on how European countries should work together towards the digital age (Digital Europe, 2020). Firms do know that technology increases productivity and innovation, however they do not know how to handle and manage it from the human perspective. This Action is novel since the lack of understanding of work-life balance and the consequences on employees' health will be closed. Since this is still a major issue in Europe (European Commission, 2020), this Action aims to positively influence this goal of the recovery plan. Moreover, it has been estimated that Europe would need around 250,000 additional digital leaders in the upcoming years (Husing et al., 2015), and even though it is proven that 90% of job need digital skills, there is still a lack of realisation (European Union, 2019). Therefore, this Action will go beyond the current knowledge and will provide more realistic implications on the realisation of training and development on European employees, leaders, and public and private institutions. Lastly, previous work started a first approach on clarifying the novel concept of corporate digital responsibility (CDR) (Lobschat et al., 2021). However, there is scarce research on the consequences of CDR at the employee and customer level. Therefore, this Action aims to prove and clarify these basic conceptual constituents of CDR and its influences. This Action goes beyond the current state-of-the-art by giving highly scientific outcomes and implications for the European countries to broaden the understanding of digitalisation, the driving forces behind it and

Review suggestions

Write with generative AI | Check for AI text & plagiarism

Review suggestions

Correctness | Clarity | Engagement | Delivery | Style guide

Improve your text

Firms do know that technology increases productivity and innovation, however they do not know how to handle and manage it from the a human perspective.

Use this version | Dismiss

Correct word choice
however

Improve your text
This Action is novel since the lack of...

Verb problem
closed

Unspilt the infinitive
to positively influence this goal of the recovery...

Rewrite the sentence
been estimated

Improve your text
Moreover, it has been estimated that Europe...

Working on an essay?
Choose your citation style and Grammarly can...

Rewrite the sentence
is proven

29

29

The impact of business analytics on supply chain performance

Trkman, P., McCormack, K., de Oliveira, M. P. V., & Ladeira, M. B

ABSTRACT

The paper investigates the relationship between analytical capabilities in the plan, source, make and deliver area of the supply chain and its performance using information system support and business process orientation as moderators. Structural equation modeling employs a sample of 310 companies from different industries from the USA, Europe, Canada, Brazil and China. The findings suggest the existence of a statistically significant relationship between analytical capabilities and performance. The moderating effect of information systems support is considerably stronger than the effect of business process orientation. The results provide a better understanding of the areas where the impact of business analytics may be the strongest.

Keywords: Supply Chain Management, Analytical Capabilities; Information Systems, Business Process Management; Performance, SCOR

Introduction

In the modern world competition is no longer between organizations, but among supply chains (SCs). Effective supply chain management (SCM) has therefore become a potentially valuable way of securing a competitive advantage and improving organizational performance [47, 78]. However, the understanding of the why and how SCM affects firm performance, which areas are especially important and which are the important moderator effects is still incomplete. This paper thus analyses the impact of business analytics (BA) in a SC on the improvement of SC performance.

The topic is important since enhancing the effectiveness and efficiency of SC analytics is a critical component of a chain's ability to achieve its competitive advantage [68]. BA have been identified as an important "tool" for SCM [44] and optimization techniques have become an integral part of organizational

Main problems of the text

Here are the main problems identified in the text:

- 1. Repetitiveness and Redundancy:** Several points and concepts—such as the importance of business analytics (BA), the SCOR model, and the moderating effects of IS and BPO—are repeated in multiple sections, sometimes with only slight changes in wording.
- 2. Clarity and Conciseness:** Some sentences are overly complex or convoluted, making key arguments less clear. For example, the paper often uses long sentences with multiple clauses, which can obscure the main point.
- 3. Scope of Moderating Effects:** The text discusses both IS and BPO as moderators, but their respective influences are not always clearly distinguished or explained. The discussion is sometimes circular or vague regarding why BPO's moderating effect is weaker.
- 4. Overly Broad Definitions:** The definitions for BA, BPO, and IS support are broad and occasionally inconsistent, which can confuse readers about exactly what is being measured or discussed.
- 5. Lack of Focus in Methodology:** The methodology section is somewhat scattered,

Ask me anything...

30

Dobro deluje tudi Plagiarism detection: <https://supplychainedigital.com/logistics/impact-big-data-and-analytics-supply-chain-execution>

30

Grammarly

- Dobro deluje krajšanje

Untitled document of Goals 64 Overall score

According to a recent study, there is a striking lack of practical evidence on how European countries should work together towards the digital age (Digital Europe, 2020). Firms do know that technology increases productivity and innovation, however they do not know how to handle and manage it from the human perspective. This Action is novel since the lack of understanding of work-life balance and the consequences on employees' health will be closed. Since this is still a major issue in Europe (European Commission, 2020), this Action aims to positively influence this goal of the recovery plan. Moreover, it has been estimated that Europe would need around 250,000 additional digital leaders in the upcoming years (Husing et al., 2015), and even though it is proven that 90% of job need digital skills, there is still a lack of realisation (European Union, 2019). Therefore, this Action will go beyond the current knowledge and will provide more realistic implications on the realisation of training and development on European employees, leaders, and public and private institutions. Lastly, previous work started a first approach on clarifying the novel concept of corporate digital responsibility (CDR) (Lobschat et al., 2021). However, there is scarce research on the consequences of CDR at

Review suggestions **Write with generative AI** Check for AI text & plagiarism

2021). Insert Retry ...

Shorten it

A recent study highlights a significant lack of practical evidence on how European countries can collaborate in the digital age (Digital Europe, 2020). While firms recognize that technology enhances productivity and innovation, they often struggle to manage it from a human perspective. This initiative aims to address the gaps in understanding work-life balance and its effects on employee health, a major concern in Europe (European Commission, 2020).

It is estimated that Europe will need around 250,000 additional digital leaders in the coming years (Husing et al., 2015). Despite 90% of jobs requiring digital skills, awareness of this need remains low (European Union, 2019). This initiative will provide practical insights into training for European employees, leaders, and institutions. Additionally, it seeks to clarify the concept of corporate digital responsibility (CDR) (Lobschat et al., 2021).

Insert Retry ... 31

31

Grammarly

Prilagodi uvod za večjo privlačnost

The main problem with using GenAI in research is not fake references. That issue is already largely resolved by specialized tools (like Consensus, Elicit, or AnswerThis) and will soon be fixed in general-purpose models as well.

Poenostavi in prilagodi izrazoslovje

Stilni in naredi bolj osebno

Prilagodi in naredi bolj tekoče

Dodaj poziv k razmisleku

Prilagodi zaključek za LinkedIn

Prilagodi uvod za večjo privlačnost

Ali še lahko zaupamo referencam v raziskavah? Glavna težava uporabe GenAI v raziskovanju ni več ponarejenih referenc – specializirana orodja (kot so Consensus, Elicit ali AnswerThis) to že uspešno rešujejo, kmalu pa bodo tudi splošni modeli.

Accept Dismiss

But generated the headline: you can now instantly append credible-looking references without reading a single word.

We need to return to the basics. Cite a paper only if it was critical to your work or if you firmly believe the reader will benefit from it.

(See the example in the comments: I asked Gemini to write text on digital innovation with two citations per sentence, then verified them with ChatGPT. I agree with the output, but it adds zero value. Students and peers don't need me to generate text. They need me to vouch for the ideas and papers actually worth their time.)

Podobno orodje: Instatext

32

32

Temeljno pravilo

- Česar koli ne veste vprašajte...
 - ...če ne mene, pa orodje

33

33

Temeljno načelo

“We need to return to the basics. Cite a paper only if it was critical to your work or if you firmly believe the reader will benefit from it. Add a slide only if lecture participant will benefit. Write a report only if someone needs it*”

Students and peers don't need me to generate text. They need me to vouch for the ideas and papers actually worth their time,

Vi “jamčite” za dodano vrednost vsake vsebine, ki jo uvrstite v svoj učni program”

<https://www.linkedin.com/feed/update/urn:li:activity:7447040805321498624/>

* Če pa morate napisati nekaj, česar noben ne rabi, seveda uporabite avtomatično generiranje, vendar poskusite doseči, da to ne bo več potrebno.

34

34