

The path from a research idea to results-sharing using the EOSC to answer a research question – perspective of the PhD student and the PostDoc researcher

Yunus Emre Yilmaz, Nejc Novak

Faculty of Mechanical Engineering, University of Maribor, Slovenia



Outline

- Introduction
- From idea to publication and patent
 - #1 prospective PhD student
 - #2 PostDoc researcher

Personal presentation



- Nejc Novak

- **Position, Academic title:** Assistant professor
- **Affiliation:** University of Maribor, Faculty of Mechanical Engineering
- **Research interest:** computational dynamic, crashworthiness, fluid-structure interaction, lightweight materials
- **Eng. software skills:** LS-DYNA, ABAQUS, ANSYS, Catia, SolidWorks

Personal presentation

• Yunus Emre Yılmaz



- **Position, Academic title:** Young researcher
- **Affiliation:** University of Maribor, Faculty of Mechanical Engineering
- **Research interest:** Lightweight materials, computer vision, precision machine design, additive manufacturing
- **Eng. software skills:** SolidWorks, Siemens-NX, PTC-Creo, Python

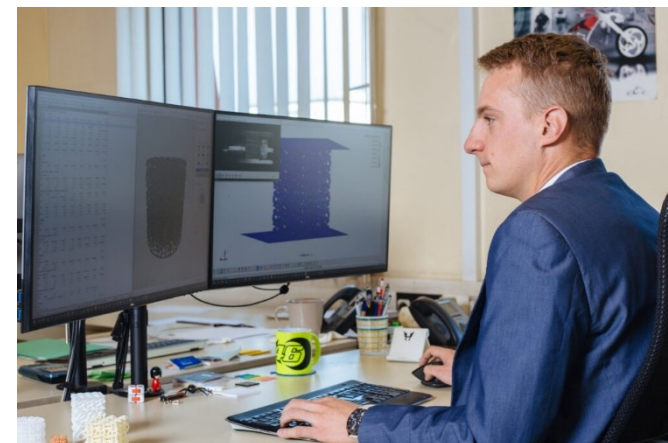
LACE-X

Laboratory for advanced computational engineering and experimenting

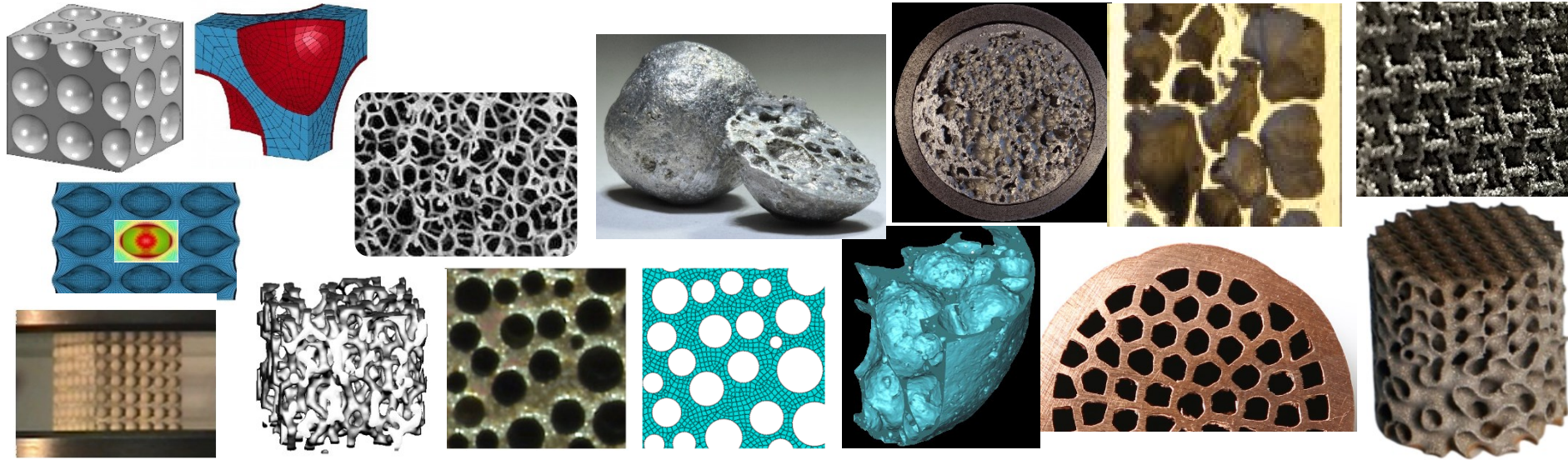
Head of Laboratory: prof. dr. Zoran Ren

Staff: 3 professors, 2 assistant professor, 2 young researchers

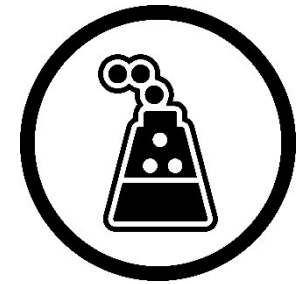
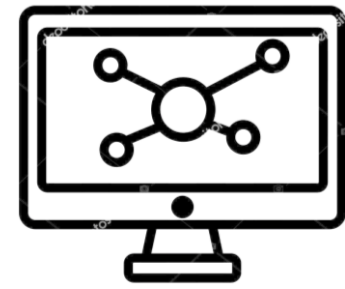
Equipment: SHPB, 2x Photron FASTCAM SA-Z + DEWESoft SIRIUSi HS 8x STG+, HPC (~5000 CPUs)



LACE-X



2003 2004 2005 2006 2007 2008 2017 2018 2019 2020 2021 2022 ...



EXPERIENCE

Outline #1



Research idea



Results

European Open Science Cloud

- Cooperation
- Collaboration
- Web of fair data
- Cross domain
- Inter operability



**EUROPEAN OPEN
SCIENCE CLOUD**

«Access and interface»



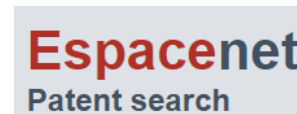
Problem definition

- Reviewing the state of art



ScienceDirect

Web of Science™



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Originality analysis



EUROPEAN OPEN
SCIENCE CLOUD

No	Key words
1	Cellular-structures
2	Triply-periodic-minimal-surfaces
3	“High-strain-rate-deformation” OR “impact”
4	Direct-impact
5	Digital-image-correlation
6	Computational simulations
7	Non-parametric
8	Spatial-image-correlation



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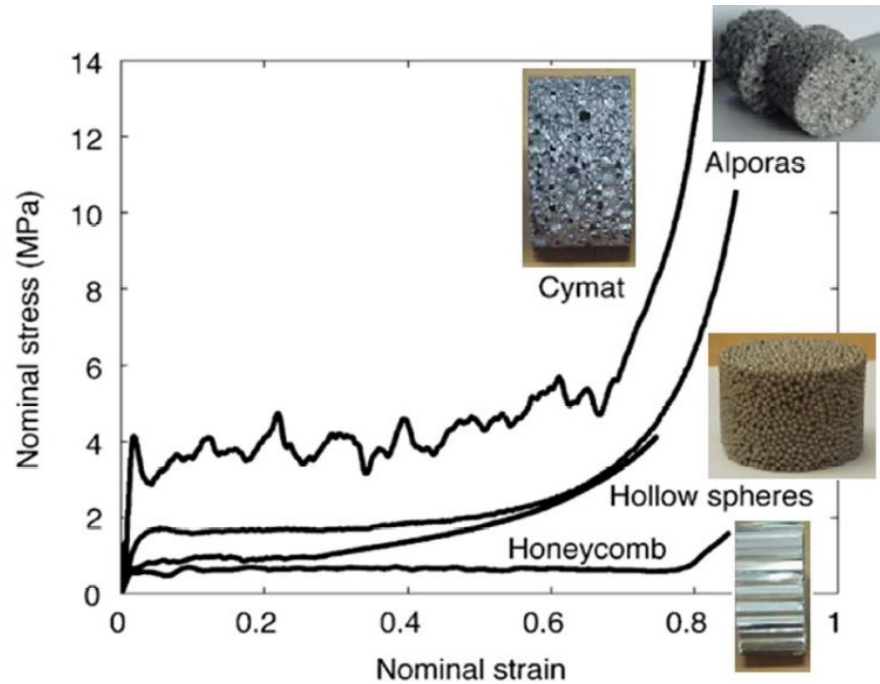


Espacenet
Patent search



Scopus

Problem definition



long plateau stress \rightarrow high energy dissipation

Figure 1: Pre-collapse stage, plateau stage, densification stage [1]

Problem definition

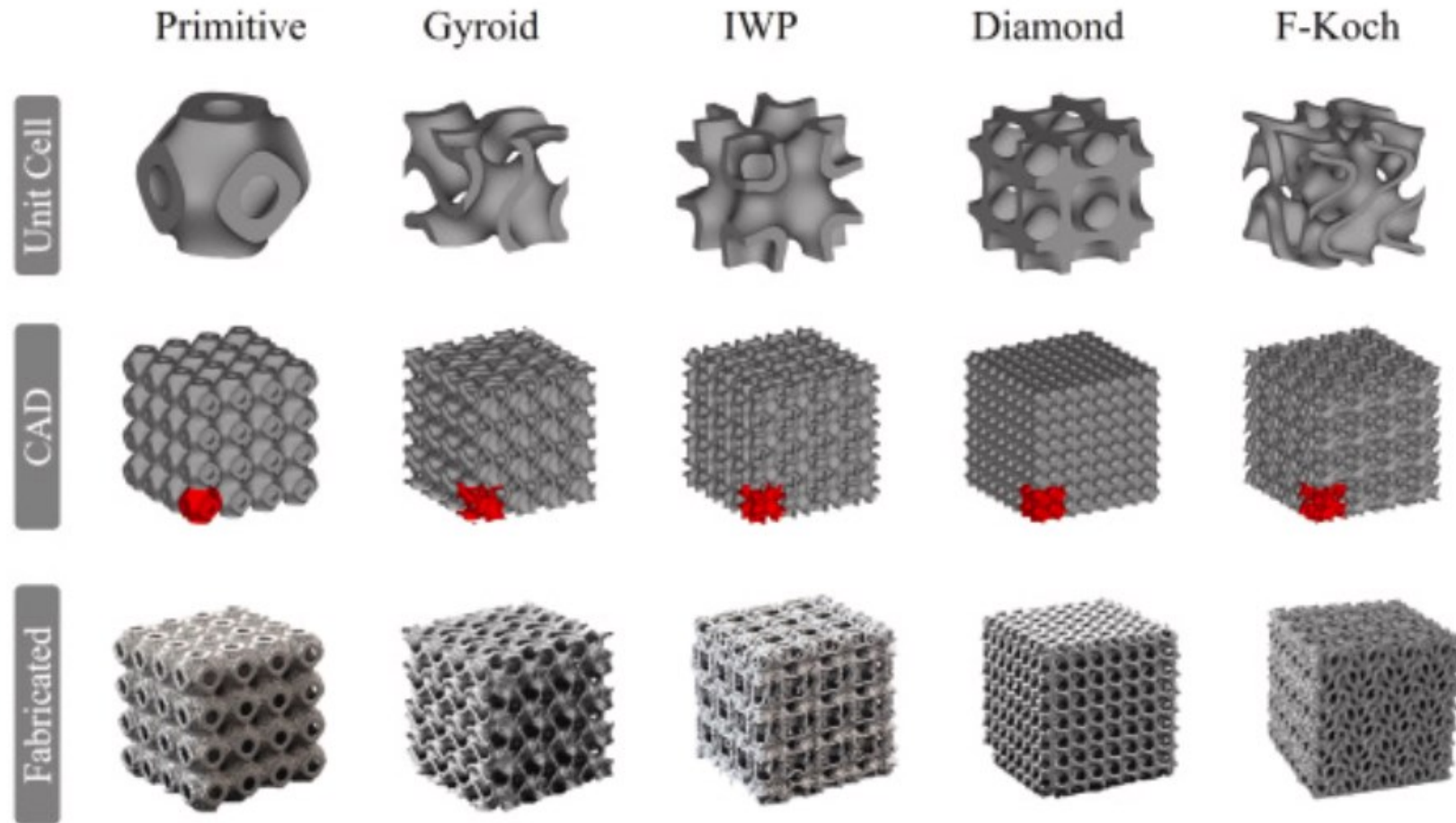
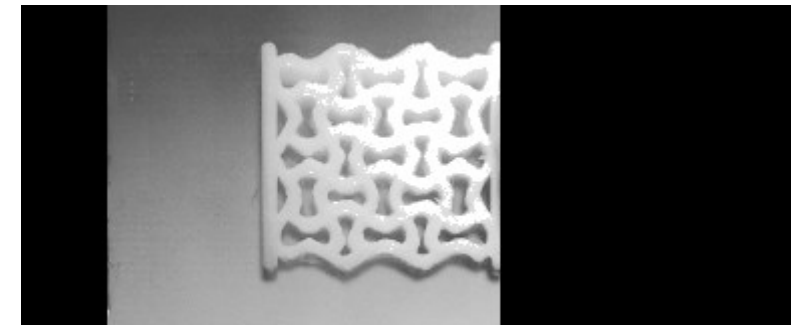
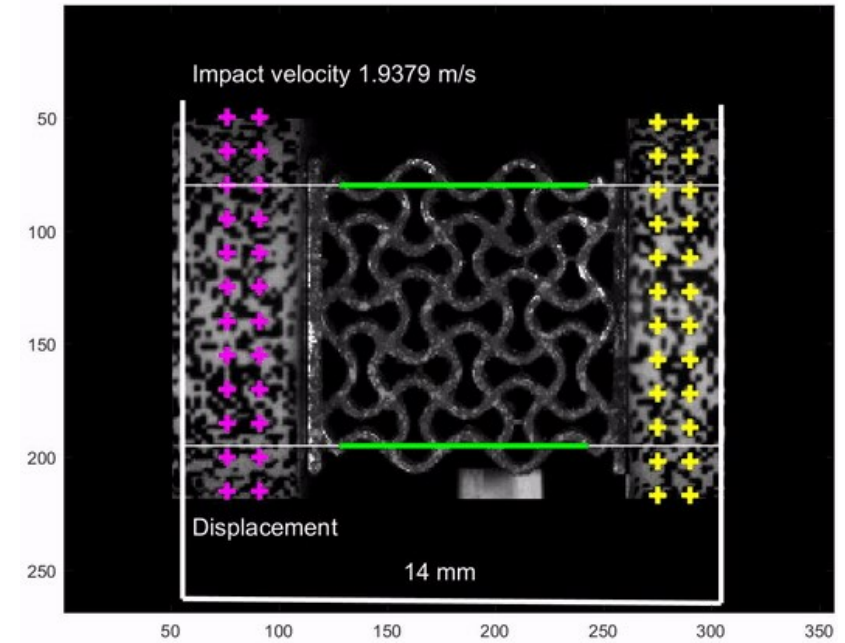
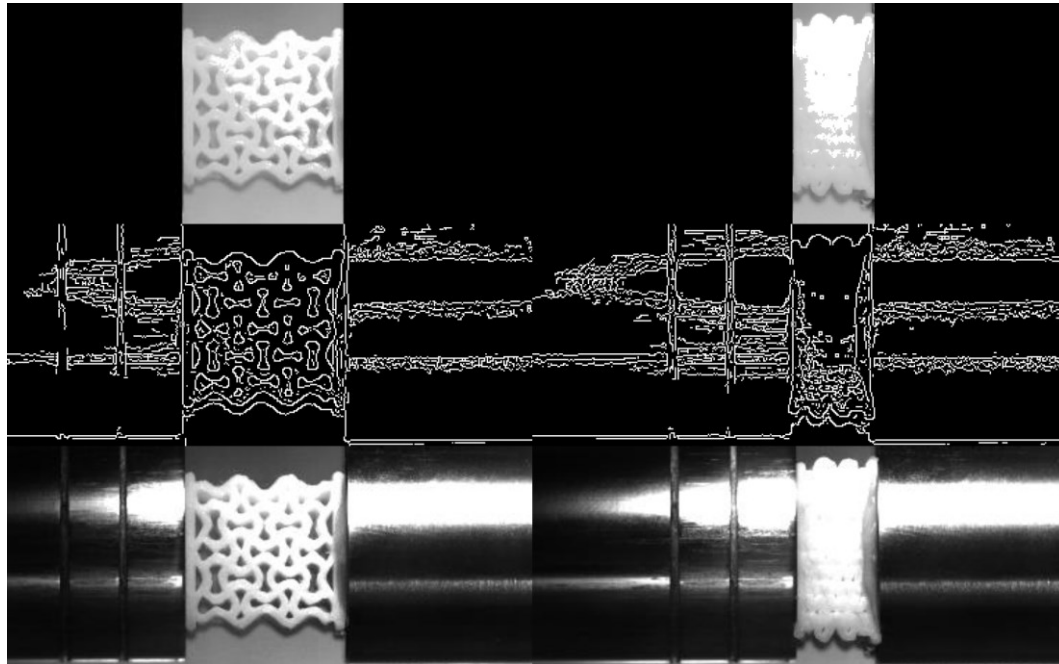


Figure 2: Typical TPMS structures [2]

Research question

- Research question: How to obtain relevant material data required for appropriate computational modelling of TPMS structures?
 - Hypothesis: Improved non-parametric analysis methodology will return the complete set of relevant material data required for computational modelling of TPMS structures.

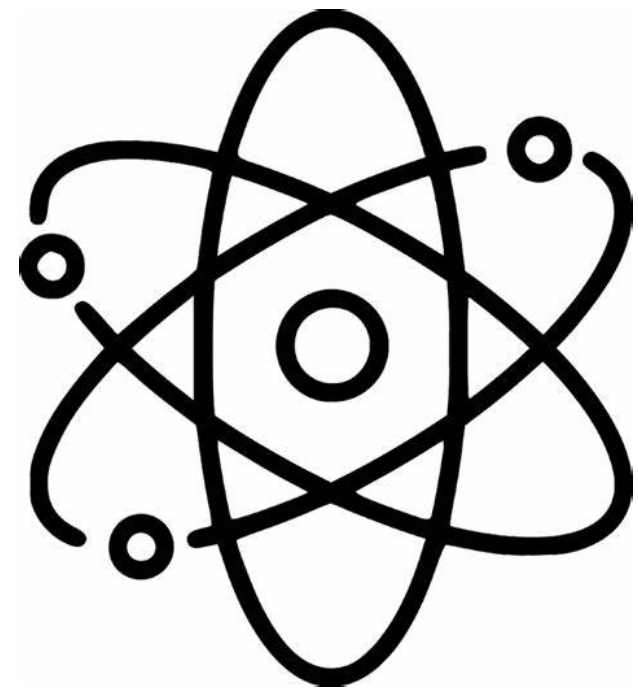
Computer Vision Algorithms



Lab Equipment



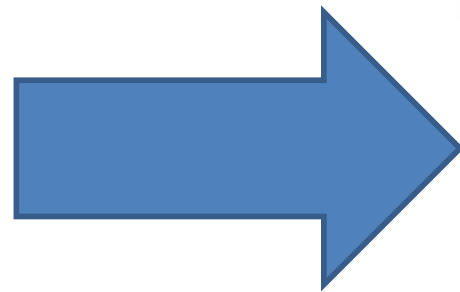
EOSC



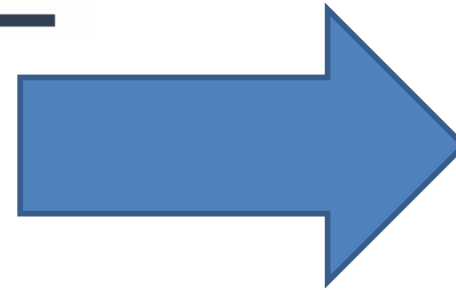
Outline #2



- Research idea



Results



Publication
Patent
Sharing



EOSC marketplace

<https://marketplace.eosc-portal.eu/>

- Integrated platform that allows easy access to lots of resources for various research domains along with integrated data analytics tools.
- Divided in Scientific domains and Categories

The screenshot displays the EOSC Marketplace website interface. At the top, the European Open Science Cloud logo is visible on the left, and a search bar with the placeholder text "Find resource..." is on the right. Below the search bar, there are two main navigation sections: "Scientific Domains" and "Categories".

Scientific Domains:

- Medical & Health Sciences
- Engineering & Technology
- Natural Sciences
- Generic
- Humanities
- Agricultural Sciences
- Social Sciences
- Other

Categories:

- Access physical & infrastructures
- Aggregators & Integrators
- Processing & Analysis
- Security & Operations
- Sharing & Discovery
- Training & Support

At the bottom of the interface, there are two call-to-action buttons: "Browse through catalogue" and "Go to your projects". The University of Maribor logo is located in the bottom right corner.

EOSC marketplace

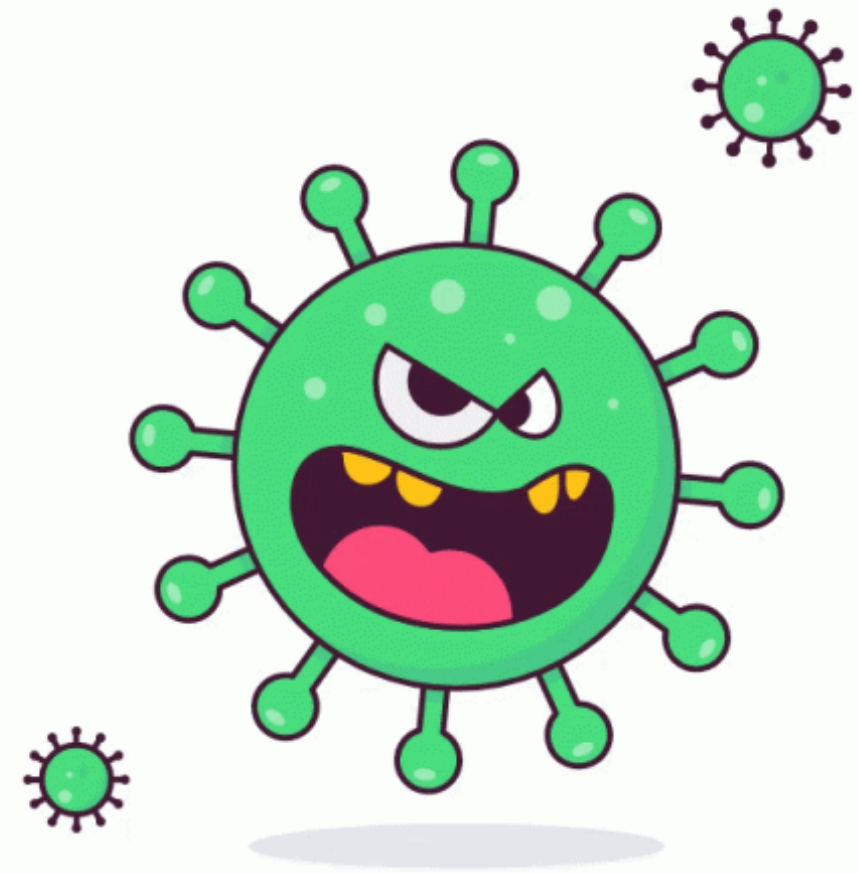
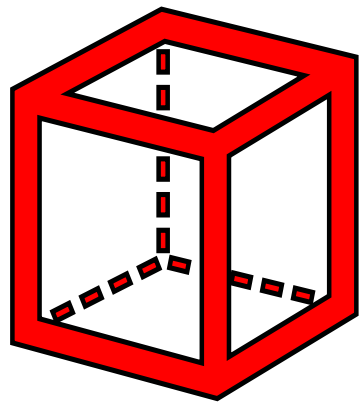
- Limited resources on the field of Engineering and Technology



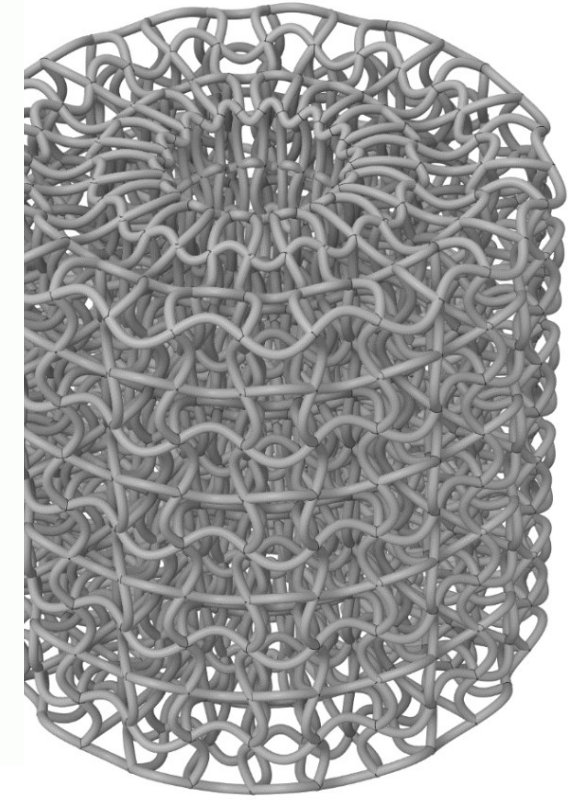
Scientific Domains	
<i>Find or choose from the list below</i>	
<input type="checkbox"/> Generic	133
<input type="checkbox"/> Generic	133
<input type="checkbox"/> Natural Sciences	130
<input type="checkbox"/> Earth & Related Environmental Sciences	63
<input type="checkbox"/> Biological Sciences	48
<input type="checkbox"/> Physical Sciences	21
<input type="checkbox"/> Computer & Information Sciences	13
<input type="checkbox"/> Chemical Sciences	10
<input type="checkbox"/> Other Natural Sciences	3
<input type="checkbox"/> Mathematics	1
<input type="checkbox"/> Engineering & Technology	34
<input type="checkbox"/> Electrical, Electronic & Information Engineering	13
<input type="checkbox"/> Environmental Engineering	11
<input type="checkbox"/> Other Engineering & Technology Sciences	9
<input type="checkbox"/> Environmental Biotechnology	4
<input type="checkbox"/> Materials Engineering	3
<input type="checkbox"/> Civil Engineering	2
<input type="checkbox"/> Chemical Engineering	1
<input type="checkbox"/> Industrial Biotechnology	1
<input type="checkbox"/> Mechanical Engineering	1
<input type="checkbox"/> Medical Engineering	1
<input type="checkbox"/> Nanotechnology	1
<input type="checkbox"/> Humanities	30
<input type="checkbox"/> Languages & Literature	16
<input type="checkbox"/> History & Archaeology	15
<input type="checkbox"/> Other Humanities	12
<input type="checkbox"/> Philosophy, Ethics & Religion	7
<input type="checkbox"/> Arts	6
<input type="checkbox"/> Medical & Health Sciences	27
<input type="checkbox"/> Other Medical Sciences	12
<input type="checkbox"/> Health Sciences	10
<input type="checkbox"/> Medical Biotechnology	8
<input type="checkbox"/> Basic Medicine	4
<input type="checkbox"/> Clinical Medicine	2

Research idea

- Transformation of a quadratic to a



om



State of the art



- Literature and patents review

Not existing 😊



ScienceDirect

Web of Science™



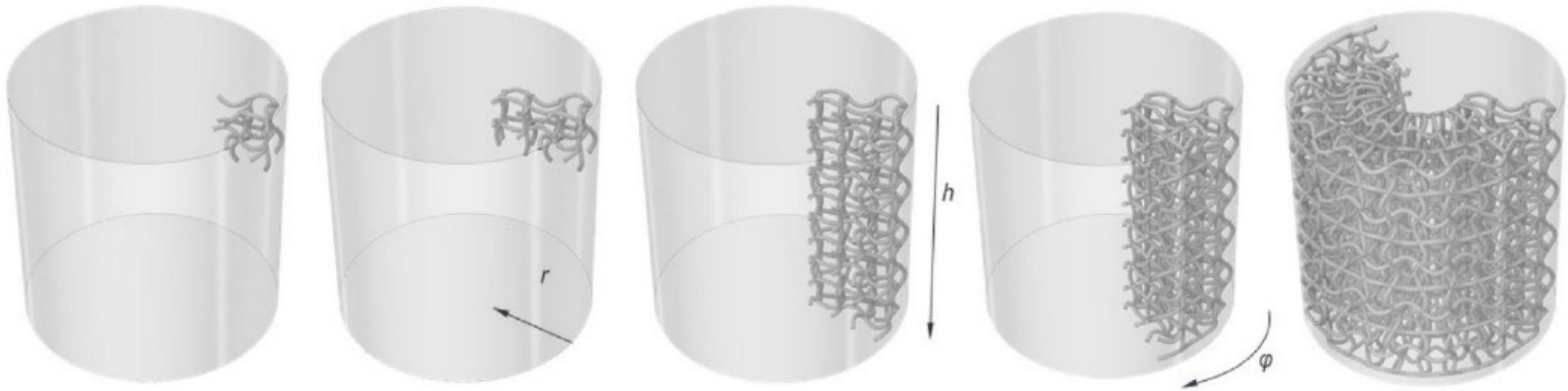
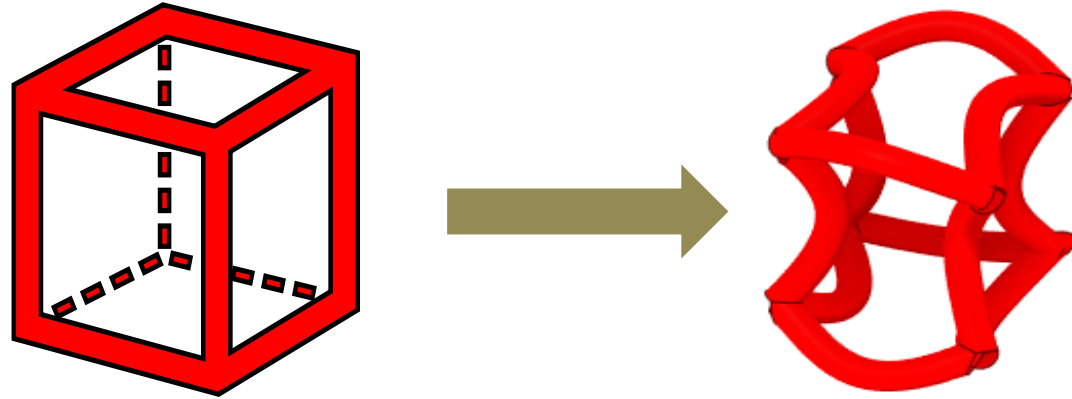
Espacenet
Patent search



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Experiments

- Design of geometry



Experiments

Idea

State of
the art

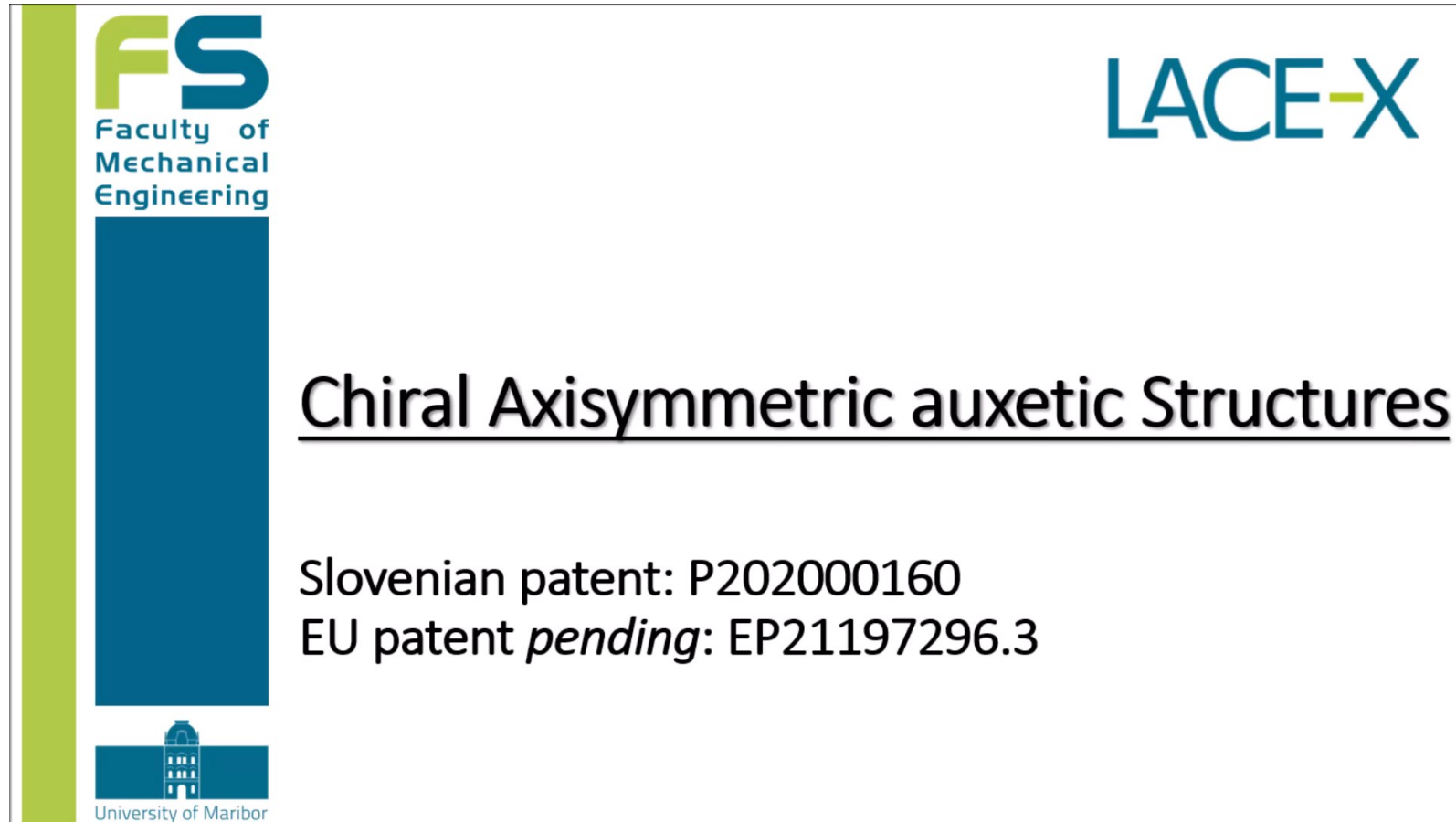
Research

Writing

Publication

Sharing

- Design of geometry



The image shows the cover of a research paper. On the left side, there is a vertical green bar. To its right, the logo for the Faculty of Mechanical Engineering (FS) is displayed, consisting of the letters 'FS' in a stylized font, with 'Faculty of Mechanical Engineering' written below it. At the bottom of this section is the University of Maribor logo, which includes a building icon and the text 'University of Maribor'. In the top right corner of the cover, the text 'LACE-X' is written in a large, blue, sans-serif font. The main title of the paper, 'Chiral Axisymmetric auxetic Structures', is centered in a large, black, serif font and underlined. Below the title, the patent information is listed: 'Slovenian patent: P202000160' and 'EU patent *pending*: EP21197296.3'.

FS
Faculty of
Mechanical
Engineering

LACE-X

Chiral Axisymmetric auxetic Structures

Slovenian patent: P202000160
EU patent *pending*: EP21197296.3

University of Maribor

Experiments



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NALOŽBA V VAŠO PRIHODNOST

The project is co-financed by the Republic of Slovenia, the Ministry of Education, Science and Sport and the European Union under the European Regional Development Fund.

www.eu-skladi.si

More information is available on this connection.

Experiments

Idea

State of the art

Research

Writing

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- RIUM



Advanced Materials and Technologies

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Health and Safe Food

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Smart Energy and Circular Systems

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In the context of intangibles, a software tool was purchased – **National Instruments ASL+, LabVIEW and Multisim**. The specified licensed software within the project enables capturing and processing various measurement data.

Advanced Materials and Technologie

Mobile system for synchronized fast digital recording of transients	+
Experimental system for compounding nano and macrostructural polymer composites and metallic glasses	+
Digital stereo microscope Keyence VHX 7000	+
Indentation tester Nanotest Vantage	+
Electronic device for measuring the growth of cracks in metallic materials MATELECT DCM-2 DCPD	+
System for stereo-optical measurement of deformations on material surface GOM Aramis12M	+
System for zeta potential characterisation on materials	+
Collaborative robotic equipment	+
Multi-channel potentiostat/galvanostat/impedance analyzer MultiPalmSens4	+
Sensor equipment, hardware and software for ergonomic analysis of the collaborative workplace	+
X-ray photoelectron spectroscopy	+
Research system for additive manufacturing of metallic and polymer materials	+
Temperature test chamber	+
6-axis welding robotic arm with steering control and moveable welding cell on wheels	+
Module for fast X-ray spectral chemical analysis of materials	+
Scanner for 3D vector visualization of the magnetic field	+

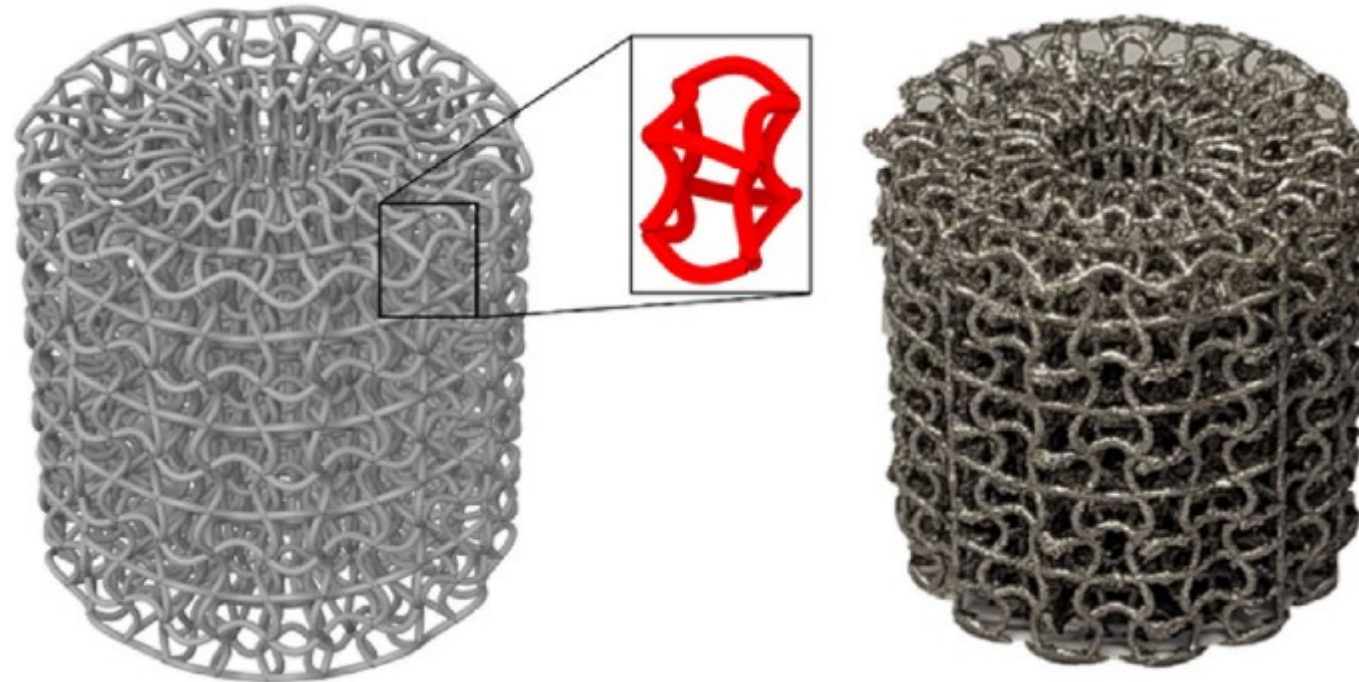
Acknowledgement

According to the open-access principle, when publishing and using results obtained with the use of RIUM research infrastructure, users and research groups are obliged to state appropriate acknowledgement as stated below:

The authors acknowledge the use of research equipment <state the name of the used research equipment RIUM>, procured within the operation “Upgrading national research infrastructures – RIUM”, which was co-financed by the Republic of Slovenia and the European Union from the [European Regional Development Fund](#).


Experiments

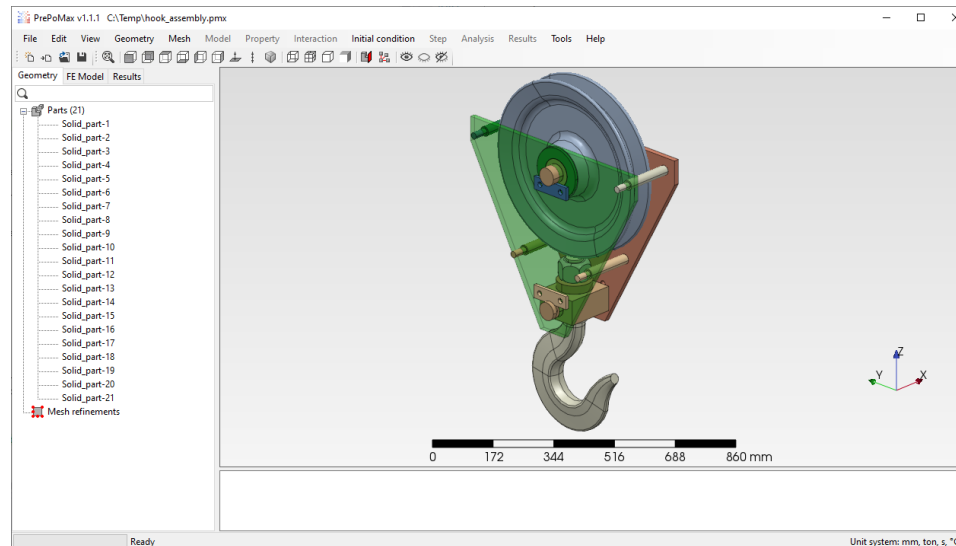
- Fabrication



Computational simulations

<https://prepomax.fs.um.si/>

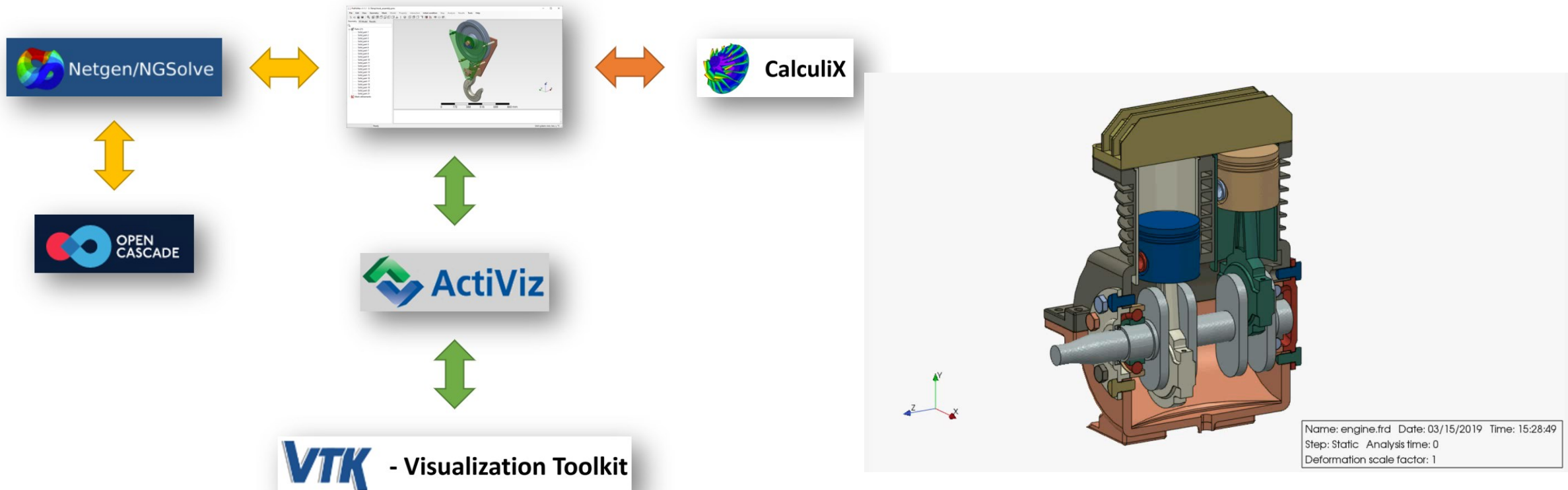
- PrePoMax  PrePoMax
 - The PrePoMax is designed to prepare input file and perform finite element analysis, which has been under development since 2016.
 - Basically, it is a modern user environment developed in the C# programming language, which connects several open source libraries in the background in one environment.



Computational simulations

<https://prepomax.fs.um.si/>

- PrePoMax  PrePoMax



Computational simulations

- HPC RIVR

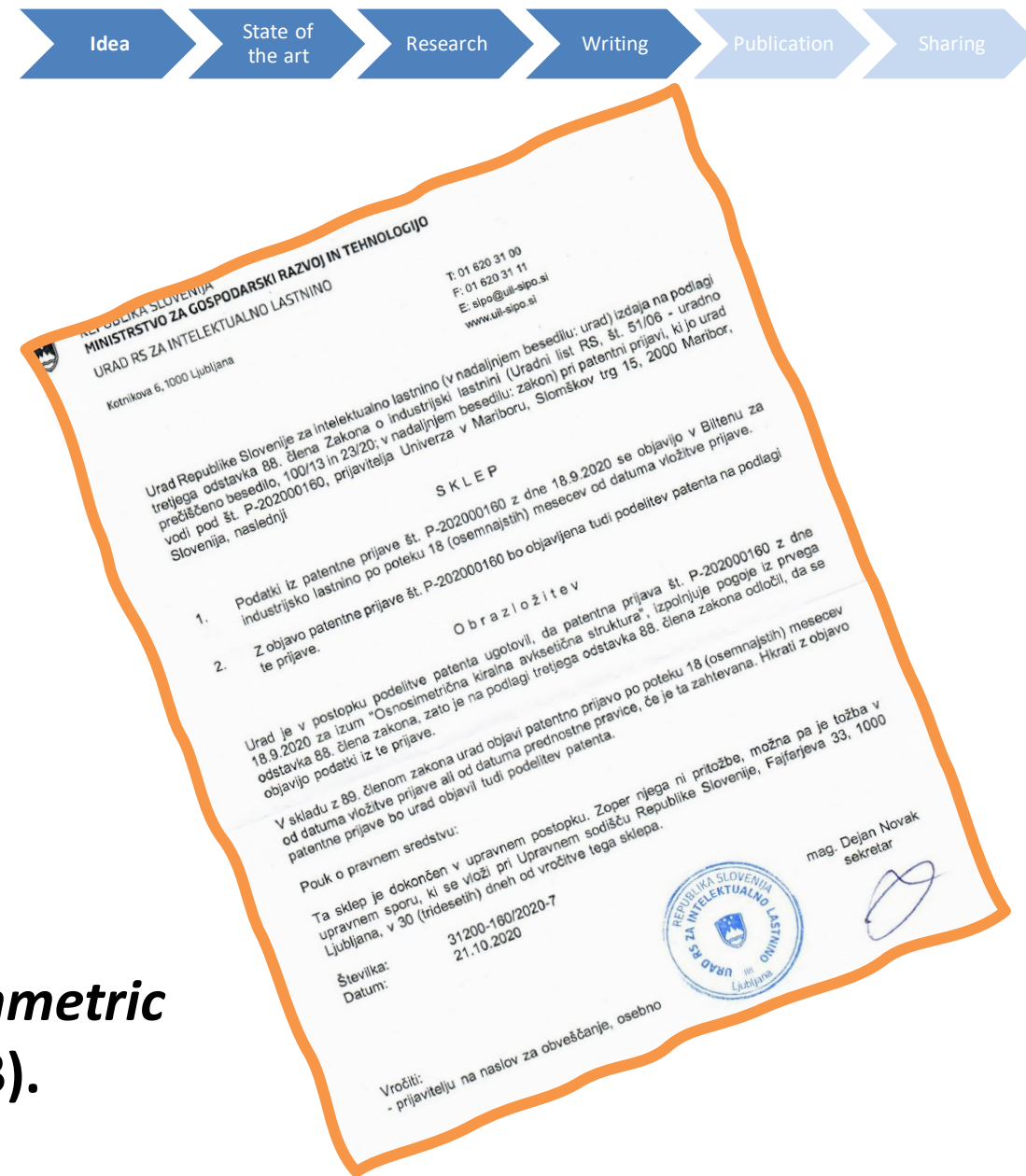


- HPC RIVR is the most powerful public supercomputer in Slovenia. It operates with the aim of opening up new research and development fields in segments that help to shape global trends. The computing capacities are available according to the open research infrastructure principle.
- The project "Upgrading national research infrastructures – HPC RIVR" is aimed at establishing a national supercomputing centre with the principal objective of strengthening national high performance computing capacities for the needs of the Slovenian research and innovation as well as economic area. The project is funded by the European Union from the European Regional Development Fund (80%) and the Ministry of Education, Science and Sport (20%) within the framework of the Operational Programme for the implementation of the European Cohesion Policy in the period 2014-2020.

Patent application

- Slovenian patent granted
- European patent pending
 - Already provided answers to the EPO comments

Vesenjak, M., Novak, N., & Ren, Z. (2021). *Axisymmetric chiral auxetic structure* (Patent No. EP21197296.3). European Patent Office.



Data repositories



- In 2016, a paper by Wilkinson et al. '[FAIR Guiding Principles for scientific data management and stewardship](#)' was in the journal *Scientific Data*. The authors provided guidelines to improve the **F**indability, **A**ccessibility, **I**nteroperability, and **R**euse of digital assets. This and similar initiatives emphasize the importance of thorough meta-data, identifiability (e.g. DOI), and machine-readability. The [Go-FAIR](#) website offers a more thorough overview of the FAIR principles.
- Here are some non-profit data repositories that fulfill the FAIR principles:
- [EDUAT](#) – sustained by a network of more than 20 European research organizations, EDUAT can be used for storing, managing, and sharing research data of any form.
- [Harvard Dataverse](#) – hosted by Harvard University, this data repository offers free storage of research data. Like all of the services in this list, it will assign a Digital Object Identifier to your data to ensure it is credited to you.
- [Zenodo](#) – developed by the EU-funded project ApenAire, it is hosted by CERN. The repository is particularly useful for EU-funded projects because it allows directly reporting to the EU research [Participant Portal](#).
- [Dryad](#) – originally developed with funding from the US NSF, Dryad can be used for data sets of any type that correspond to a research paper. The data is curated and the users are charged for submissions.
- Here are some well recognized data repositories, owned by private companies:
- [GitHub](#) – owned by Microsoft, GitHub has become the default data repository for coders. 500MB of private and unlimited public space is offered for free.
- [Figshare](#) – owned by Digital Science, Figshare provides a DOI for all published files, regardless of the file format. 20GB of private and unlimited public space is offered with a free account.
- [Protocols.io](#) – designed for sharing research methodology, descriptions of clinical trials, and computational workflows. Owned by ZappyLab, Inc.

Writing

Idea

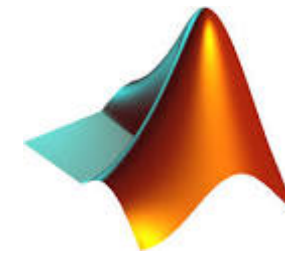
State of
the art

Research

Writing

Publication

Sharing



Preprint



- These are the best-known preprint repositories.
- [arXiv](#) – Launched in 1991 this is the oldest and best-known paper preprint server. It is operated by Cornell University and is mainly intended for the fields of mathematics and physics.
- [ChemRxiv](#) – a preprint server for papers in chemistry.
- [BioRxiv](#) – for preprints in research in biology and life sciences.
- [MedRxiv](#) – preprints in health sciences
- [PsyArXiv](#) – preprint server for papers in psychology
- [RePEc](#) – preprints in economics
- [SocArXiv](#) – preprints in social sciences
- General data repositories like [Zenodo](#) and [FigShare](#) can also be used to publish preprints.

Engineering?

Preprint



- <https://www.elsevier.com/solutions/ssrn>



- Not always beneficial

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Preprint

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Al-Ketan, O., Novak, N., Mauko, A., ...Vesenjak, M., Ren, Z.

2022, Repository: [SSRN](#)

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Journal of Materials Research and Technology
Volume 17, March–April 2022, Pages 2701–2713



Faktor vpliva za revijo Journal of Materials Research and Technology-JMR&T za leto 2020

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Leto	2020
Naslov serijske publikacije	Journal of Materials Research and Technology-JMR&T
ISSN	2238-7854/2214-0697
Faktor vpliva	5.039
Država	BRAZIL

Uvrstitve Science Edition (SE)	PM	PZ
	MATERIALS SCIENCE, MULTIDISCIPLINARY	METALLURGY & METALLURGICAL ENGINEERING
Uvrstitev	104/336	9/80
Četrtna	2	1
IFx	5.557	2.280
IFmax 1. četrtna	66.308	10.088
IFmin 1. četrtna	6.214	2.556
IFmax 2. četrtna	6.147	2.474
IFmin 2. četrtna	3.328	1.739
IFmax 3. četrtna	3.315	1.716
IFmin 3. četrtna	1.905	1.068
IFmax 4. četrtna	1.890	1.035
IFmin 4. četrtna	0.064	0.266

+ Add t
<https://doi.org/10.1016/j.jmr.2022.03.001>
Under a C

<http://auxnas.fs.um.si/advAUXmat/index.php>

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Razvoj in karakterizacija naprednih celičnih metamaterialov



Univerza v Mariboru

Fakulteta za strojništvo



JAVNA AGENCIJA ZA RAZISKOVALNO DEJAVNOST
REPUBLIKE SLOVENIJE

	Temeljni podoktorski raziskovalni projekt
Naziv projekta	Razvoj in karakterizacija naprednih celičnih metamaterialov
Šifra	Z2-2648
Obdobje	od 1.9.2020 do 31.8.2022
Raziskovalna organizacija	Fakulteta za strojništvo, Univerza v Mariboru (FS UM)
Financer	Javna agencija za raziskovalno dejavnost Republike Slovenije (ARRS)
Obseg financiranja	1 FTE (ure cenovnega razreda B)

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Development and characterisation of novel three-dimensional axisymmetric chiral auxetic structures

Razvoj in karakterizacija novih tri-dimenzionalnih aksisimetričnih kiralnih avksetičnih struktur

Povzetek:

Nove tri-dimenzionalne aksisimetrične kiralne avksetične strukture z negativnim in ničnim Poissonovim razmerjem so bile razvite na osnovi konvencionalne osnovne celice in so predstavljene v tem delu. Konvencionalna štiri kiralna osnovna celica je spremenjena v aksisimetrični prostor, tako da tvori novo tridimenzionalno kiralno strukturo. Karakterizirani sta dve različni strukturi, odvisno od zamika periode sinusnih krivulj, ki opisujejo vodoravne medcelične povezave strukture. Strukture so bile izdelane s pomočjo dodatnih tehnologij in eksperimentalno testirane s tlačnimi testi. Za ovrednotenje vrednosti Poissonovega razmerja je bila uporabljena metoda digitalne korelacije slik. Računalski model aksisimetričnih kiralnih struktur je bil na osnovi eksperimentalnih testov tudi uspešno validiran in kasneje uporabljen za virtualni razvoj novih geometrij z gradirano poroznostjo. Novo razvite aksisimetrične strukture so izkazale izboljšane mehanske lastnosti v primerjavi z obstoječimi tridimenzionalnimi kiralnimi strukturami.

Novak et al. - 2022 - Development and characterisation of novel three-dimensional axisymmetric chiral auxetic structures - Journal of Ma.pdf

Sharing



- Be careful about „fake conference“

Google auxetic conference

Približno 129.000 rez. (0,38 sek.)

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<https://www.auxetics.eu> - Prevedi to stran
Auxetics.eu
Auxetics 2019. at Institute of Molecular Physics Polish Academy of Sciences, Poznan, Poland 2 to 6 September 2019 · **Auxetics 2018.**

<https://conferenceindex.org> > event > int... - Prevedi to stran
International Conference on Advanced Auxetic Materials scheduled on October 6-7, 2022 at Tokyo, Japan is for the researchers, scientists, scholars, ...

6. okt. - 7. okt. International Conference on ...

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September 20-21, 2022 in Paris, France

10th International Conference **Auxetics and other materials and models with "negative" characteristics** and 15th International Workshop **Auxetics and related systems** 2nd-6th Sept. 2019

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Sharing

Idea

State of the art

Research

Writing

Publication

Sharing

- Be careful about „fake conferences“



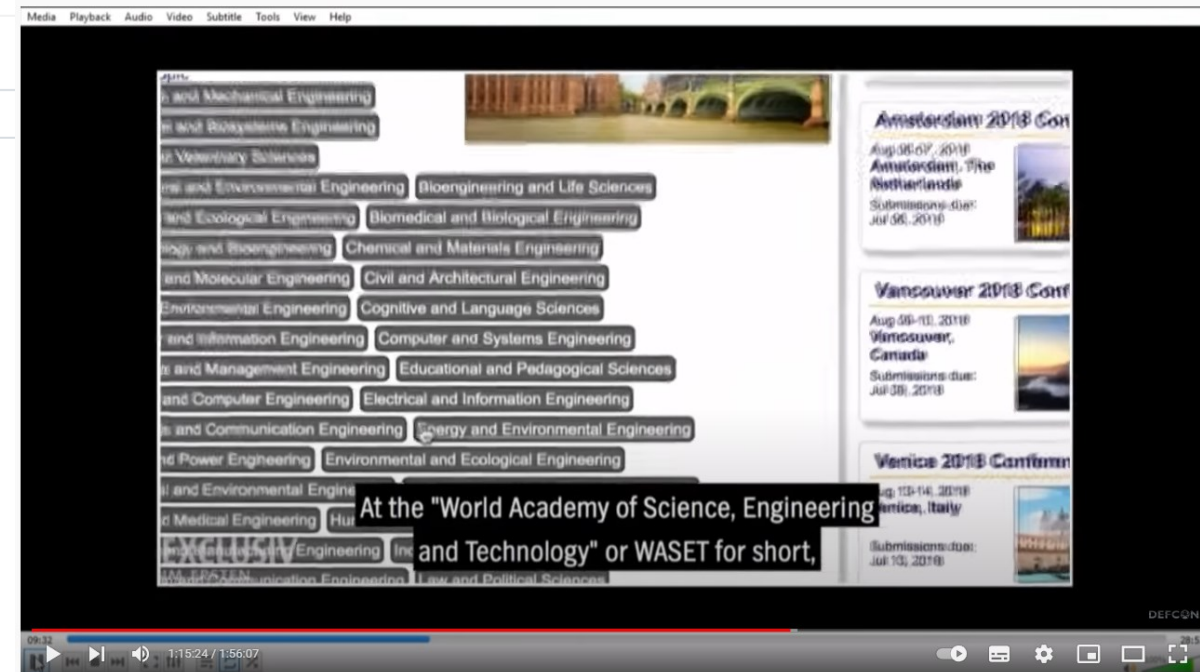
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Conclusions

- More EOSC solution has to be developed and also shared in the field of engineering
- They offer a great possibility to share knowledge which can accelerate the research
- Copyrights and further use of the tools must be considered taken into account

Thank you for your attention!