



UTKARSH YASHVARDHAN <f20190704@pilani.bits-pilani.ac.in>

Permission to translate MATLAB code from educational article in Julia

4 messages

UTKARSH YASHVARDHAN <f20190704@pilani.bits-pilani.ac.in>

Sat, Jan 27, 2024 at 1:57 PM

To: hello@liuk.ai, tovara@iupui.edu

Dear Drs Liu and Tovar

I hope you are doing well.

I am Utkarsh Yashvardhan, a student from BITS Pilani, India, pursuing a master's degree in Mathematics and a bachelor's degree in CS (dual major). I am working on increasing the breadth of the [SimpleTopOpt.jl](#) GitHub repository by adding more relevant topology optimization codes to it (SimpleTopOpt.jl repository provides a small package implementing basic techniques for classic elastic compliance, thermal compliance, and fluidic topology optimization problems. Currently, it contains Julia translations of 3 topology optimization MATLAB codes provided by different educational resources).

In this regard, I came across your excellent educational article - "[An efficient 3D topology optimization code written in Matlab](#)". I want to translate the MATLAB code presented in this article to Julia programming language and then perform unit tests on it to compare its performance with the equivalent MATLAB code. This would help me enhance my understanding of the topic and would allow other people to easily get access to the Julia implementation of the code and also help them compare the performance of the Julia code with the corresponding MATLAB one.

Ultimately, I want to upload that translated code on SimpleTopOpt.jl GitHub repository, which has an [MIT license](#). Please permit me to translate your code into Julia, perform unit tests on it, and then upload it to the SimpleTopOpt.jl repository.

I will be very grateful to you if you grant my request. I am eagerly waiting for your response.

Regards,
Utkarsh Yashvardhan

Tovar, Andres <tovara@iupui.edu>

Sat, Jan 27, 2024 at 6:19 PM

To: UTKARSH YASHVARDHAN <f20190704@pilani.bits-pilani.ac.in>, "hello@liuk.ai" <hello@liuk.ai>

Utkarsh,

That is an excellent project! You have permission to use our Matlab code.

Best regards,
Andres

Andres Tovar, Ph.D.
Associate Professor
Department of Mechanical and Energy Engineering
Purdue University Indianapolis
[723 West Michigan Street](#), SL 260N
Indianapolis, IN 46202-5132, USA
(317) 278-7090
tovara@iupui.edu

From: UTKARSH YASHVARDHAN <f20190704@pilani.bits-pilani.ac.in>**Sent:** Saturday, January 27, 2024 3:27:23 AM**To:** hello@liuk.ai <hello@liuk.ai>; Tovar, Andres <tovara@iupui.edu>**Subject:** [External] Permission to translate MATLAB code from educational article in Julia

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UTKARSH YASHVARDHAN <f20190704@pilani.bits-pilani.ac.in>

Sun, Jan 28, 2024 at 8:52 AM

To: "Tovar, Andres" <tovara@iupui.edu>

Cc: hello@liuk.ai

Thank you very much, sir.

Regards,
Utkarsh Yashvardhan

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UTKARSH YASHVARDHAN <f20190704@pilani.bits-pilani.ac.in>

Sun, Jan 28, 2024 at 9:15 AM

To: mohamed82008@gmail.com

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