



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 1:25 PM

To: fferrar3@jhu.edu, olsi@dtu.dk, jkguest@jhu.edu

Dear Drs Ferrari, Sigmund and Guest

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 - "[Topology optimization with linearized buckling criteria in 250 lines of 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

Jamie Guest <jkguest@jhu.edu>

Thu, Feb 1, 2024 at 7:44 PM

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

Cc: Federico Ferrari <fferrar3@jhu.edu>, "olsi@dtu.dk" <olsi@dtu.dk>

Hi Utkarsh -

Thank you for your interest in our paper and accompanying MATLAB code, and for seeking permission before translating the code to Julia.

We are fine with your plans referenced below, although we do request that you reference our original paper in your code and related materials.

Good luck, and please let us know when your work is completed!

Regards,
Jamie

James K. Guest, Ph.D.
Professor and Head, Department of Civil and Systems Engineering
Deputy Director, Johns Hopkins Center for Additive Manufacturing and Architected Materials
Johns Hopkins University
<http://www.ce.jhu.edu/topopt>
<http://jam2.jhu.edu>

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

Fri, Feb 2, 2024 at 4:26 PM

To: Jamie Guest <jkguest@jhu.edu>

Cc: Federico Ferrari <fferrar3@jhu.edu>, "olsi@dtu.dk" <olsi@dtu.dk>

Surely Professor. Thank you for your reply. I will definitely put references to the original paper in my code and related materials.

Regards,
Utkarsh Yashvardhan

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

Sat, Mar 2, 2024 at 11:31 AM

To: mohamed82008@gmail.com

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