Yogesh Haribhau Kulkarni

Principal Architect (CTO Office, Icertis) | PhD in Geometric Modeling | Google Developer Expert (Machine Learning) | Rasa Hero (Conversational AI) | Neo4j Ninja (Graph Data Science) | Mentor (Mid-career Transition)

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Yogesh Haribhau Kulkarni • You • • •
Principal Architect (CTO Office, Icertis) | PhD in Geometric Modeling | Google Devel…
1yr • Edited • 🌐

Recently came across a couple of papers citing my PhD work, a moment of satisfaction and fulfillment!!

Good to see that the topic of Midcurve/Midsurface generation, which started about 5 decades ago, still continues interest researchers and a substantial progress is being made.

Reference: Look for "Kulkarni" in the following:

- https://lnkd.in/dZDeHQQ5
- https://lnkd.in/dm6RrqUm

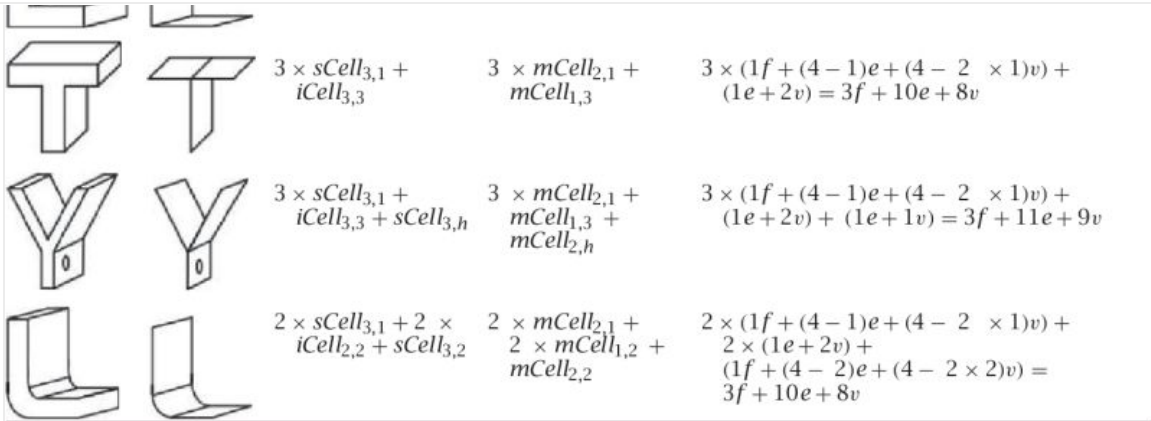My other publications at https://lnkd.in/dbVv7vyB

In my doctoral work, Midcurve/Midsurface generation was attempted using rule-based approach, but later, as I got familiar with Machine/Deep Learning approaches, I started employing them for image-based Midcurve generation, called "MidcurveNN". Recent paper (extended abstract) on that topic is at https://lnkd.in/d9JZjsx

Code for MidcurveNN has been open sourced at https://lnkd.in/fpsNT2P and the data has been made public at Kaggle at https://lnkd.in/dEZ4C6M along with sample notebooks to try out.

Anil Sahasrabudhe Dr.Mukund Kale College of Engineering Pune

#deeplearning #kaggle #midcurve #midsurface #cad #cae #opensource #machinelearning #ai #3d #geometry #computervision #machinedesign

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Solid	Midsurface	sCells	mCells	Predicted Midsurface Entities
		$sCell_{3,0}$	$mCell_{2,0}$	$1f + (4 - 0)e + (4 - 2 \times 0)v = 1f + 4e + 4v$

		$3 \times sCell_{3,1} + iCell_{3,3}$	$3 \times mCell_{2,1} + mCell_{1,3}$	$3 \times (1f + (4-1)e + (4-2 \times 1)v) + (1e + 2v) = 3f + 10e + 8v$
		$3 \times sCell_{3,1} + iCell_{3,3} + sCell_{3,h}$	$3 \times mCell_{2,1} + mCell_{1,3} + mCell_{2,h}$	$3 \times (1f + (4-1)e + (4-2 \times 1)v) + (1e + 2v) + (1e + 1v) = 3f + 11e + 9v$
		$2 \times sCell_{3,1} + 2 \times iCell_{2,2} + sCell_{3,2}$	$2 \times mCell_{2,1} + 2 \times mCell_{1,2} + mCell_{2,2}$	$2 \times (1f + (4-1)e + (4-2 \times 1)v) + 2 \times (1e + 2v) + (1f + (4-2)e + (4-2 \times 2)v) = 3f + 10e + 8v$

👍🌐 Neha Tripathi Mishra and 133 others   8 comments

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Yogesh Haribhau Kulkarni   Author   12mo •••
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Christoph Schinko Flavien Boussuge just FYI

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Ajit Jadhav • 1st   12mo •••
World Rank # 5 on the MNIST benchmark problem.

Cool! Congrats! ... Reputations of past co-authors must have helped too, no? (Very Evil Smile!)...

OK, but obnoxiousness / snarkiness apart (see, see, I *owned* it *all*!), I remember the time we discussed your research at the Boat Club. .. ...see more

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Thanks.

I had some (slight) awareness about the level set methods, mainly from introductory CFD.

...see more

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Vinayak Goyal • 1st   12mo •••
RnD Data Science at Icertis, Pune | IIT Delhi'20 | KVPY Fellow | NTSE Scholar

Congrats Yogesh Kulkarni

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Dr.Mukund Kale • 1st   11mo •••
Manager at Siemens Industry Software India Pvt. Ltd.

Good to see Yogesh, your work getting cited!

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Rajesh Siraskar • 1st   11mo •••
Lead Data Scientist (Practice Director)

Interesting work Yogesh. 👏

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Akash Mavle • 1st   12mo •••
VP, AI, ML, NLP |IITB| Data Science| Serial Entrepreneur with 3 startups | 25 yrs experience| Building RiskAI | 12 years in AI, NLP, Data Science and AI | Web3, Blockchain, NFT, 25K connections

Thats good Yogesh Kulkarni !

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