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Dissertation submitted to the Faculty of the
Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the degree of

Doctor of Philosophy

in

Your Department

Your Advisor, Chair

First Committee

Second Committee

Third Committee

Last Committee

December 4, 2020

Blacksburg, Virginia

Keywords: Some Keywords, Subject matter, etc.

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ABSTRACT

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GENERAL AUDIENCE ABSTRACT

You are also required as of Spring 2016 to include a general audience abstract. This should be geared towards individuals outside of your field that may be reading seeking information about your work. You should avoid language that is particular to your field and clearly define any terms that may have special meaning in your discipline.

Dedicated to Virginia Tech.

Acknowledgments

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Chapter 1

Introduction

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Here is some text

Chapter 2

How to input figures

Here shows to insert figures and cite figures in the main text.

Figure 2.1: Picture of Lena

Picture of lena is shown in Fig. [2.1](#).

Chapter 3

How to input tables

Here shows how we could input the table.

Table 3.1: Registered pore morphology variables

metric 1	metric 2	metric 3	metric 4	metric 5	metric 6	metric 7
a	b	c	d	e	f	g

You could also cite the table [3.1](#) in this way.

Chapter 4

How to input references

In this chapter, I will discuss how I arrange the references that I feel make life much easier. You could have other ways if you prefer.

I will take this reference as an example.

Wu, Ziling, Tekin Bicer, Zhengchun Liu, Vincent De Andrade, Yunhui Zhu, and Ian T. Foster. "Deep Learning-based Low-dose Tomography Reconstruction with Hybrid-dose Measurements." arXiv preprint arXiv:2009.13589 (2020).

If you use 'google scholar' search this article, here is what coming out from this search.

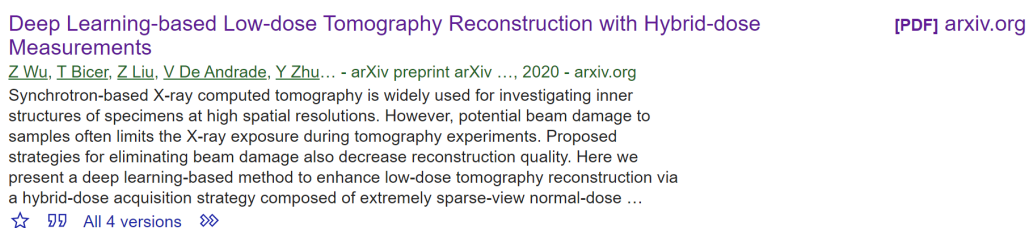


Figure 4.1: Google scholar search results

After you click the symbol circled out in red shown in Fig. 4.2, multiple cite options will come out. You could click the BibTex in green box and you could get the format to cite this article in a new page. You could copy all text in the new page to the 'ref.bib' file in the reference folder and it is ready to cite [?] now.

Deep Learning-based Low-dose Tomography Reconstruction with Hybrid-dose Measurements [PDF] arxiv.org

Z Wu, T Bicer, Z Liu, V De Andrade, Y Zhu... - arXiv preprint
 Synchrotron-based X-ray computed tomography is widely used to study the internal structures of specimens at high spatial resolutions. However, the limited X-ray exposure samples often limits the X-ray exposure during tomography acquisition. Existing strategies for eliminating beam damage also decrease reconstruction quality. We present a deep learning-based method to enhance low-dose tomography reconstruction. A hybrid-dose acquisition strategy composed of extremely sparse and dense samples is used to train the model. The model is trained to reconstruct the dense samples from the sparse samples. The model is then used to reconstruct the sparse samples. The model is trained on a large dataset of synthetic and experimental data. The model is trained on a large dataset of synthetic and experimental data. The model is trained on a large dataset of synthetic and experimental data.

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Cite

MLA Wu, Ziling, et al. "Deep Learning-based Low-dose Tomography Reconstruction with Hybrid-dose Measurements." *arXiv preprint arXiv:2009.13589* (2020).

APA Wu, Z., Bicer, T., Liu, Z., De Andrade, V., Zhu, Y., & Foster, I. T. (2020). Deep Learning-based Low-dose Tomography Reconstruction with Hybrid-dose Measurements. *arXiv preprint arXiv:2009.13589*.

Chicago Wu, Ziling, Tekin Bicer, Zhengchun Liu, Vincent De Andrade, Yunhui Zhu, and Ian T. Foster. "Deep Learning-based Low-dose Tomography Reconstruction with Hybrid-dose Measurements." *arXiv preprint arXiv:2009.13589* (2020).

Harvard Wu, Z., Bicer, T., Liu, Z., De Andrade, V., Zhu, Y. and Foster, I. T., 2020. Deep Learning-based Low-dose Tomography Reconstruction with Hybrid-dose Measurements. *arXiv preprint arXiv:2009.13589*.

Vancouver Wu Z, Bicer T, Liu Z, De Andrade V, Zhu Y, Foster IT. Deep Learning-based Low-dose Tomography Reconstruction with Hybrid-dose Measurements. *arXiv preprint arXiv:2009.13589*. 2020 Sep 28.

BibTeX EndNote RefMan RefWorks

Figure 4.2: Google scholar search results

Appendices

Appendix A

Appendices I

A.1 A1

A.2 A2