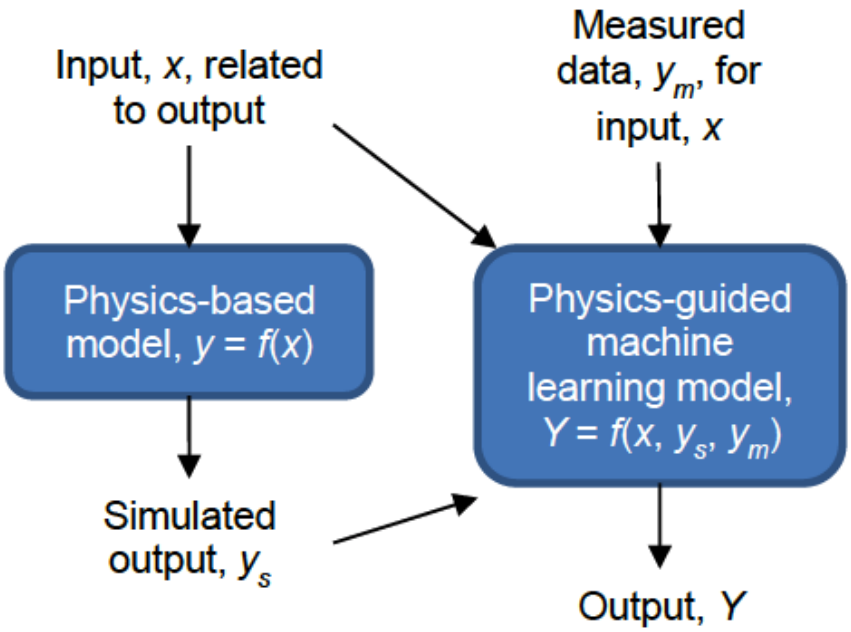
FAYETTEVILLE STATE UNIVERSITY

The Henry Eldridge Department of Mathematics and Computer Science



Seminar Series
Fall 2019

DATE

October 24, 2018

TIME

2:00—3:00 pm

PLACE

LSA 120 - Auditorium

PRESENTER

Dr. Sambit Bhattacharya

Department of Mathematics and Computer Science, FSU

Machine Learning for Manufacturing

Abstract: Although many advances in manufacturing have been achieved in recent decades, challenges for high productivity machining remain. Advances in machine learning are creating new methods of using data to enhance the accuracy and reduce waste in this area of engineering. Standard approaches for machining process do not consider the constraints imposed by the process dynamics. For example, some spindle speed-depth of cut combinations will exhibit self-excited vibrations which can potentially damage the tool. In this talk we will review machine learning approaches to solve this and some other related problems.

This project is funded by the UNC Research Opportunities Initiative.

The project page is provided here for additional information: https://coefs.uncc.edu/tschmit4/csam/

For more information please contact:

Dr. Valentin Milanov

Sci&Tech 408

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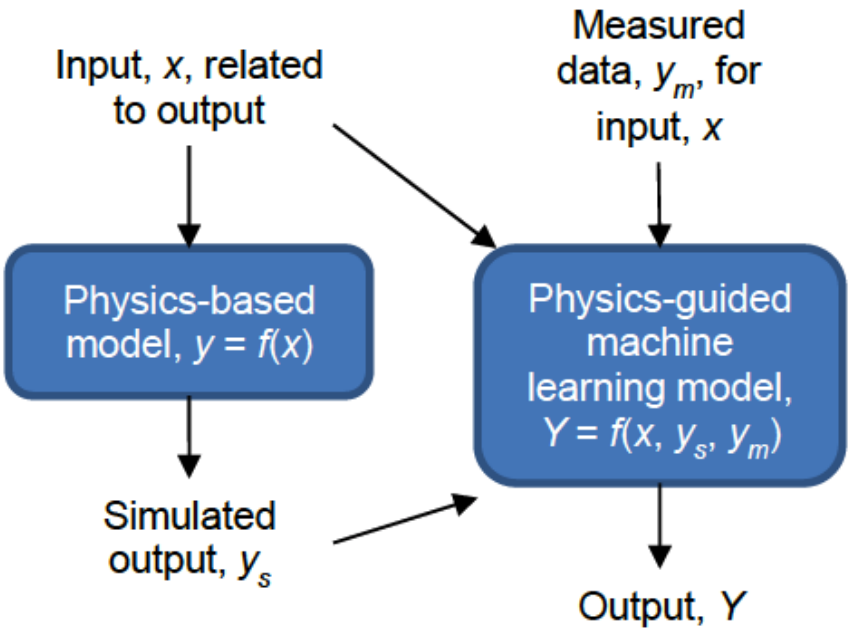

Seminar Series
Fall 2019

DATE

November 21, 2019

TIME

2:00—3:00 pm

PLACE

LSA 120 - Auditorium

PRESENTER

Dr. Sambit Bhattacharya

Department of Mathematics and Computer Science, FSU

Machine Learning for Manufacturing

Abstract: Although many advances in manufacturing have been achieved in recent decades, challenges for high productivity machining remain. Advances in machine learning are creating new methods of using data to enhance the accuracy and reduce waste in this area of engineering. Standard approaches for machining process do not consider the constraints imposed by the process dynamics. For example, some spindle speed-depth of cut combinations will exhibit self-excited vibrations which can potentially damage the tool. In this talk we will review machine learning approaches to solve this and some other related problems.

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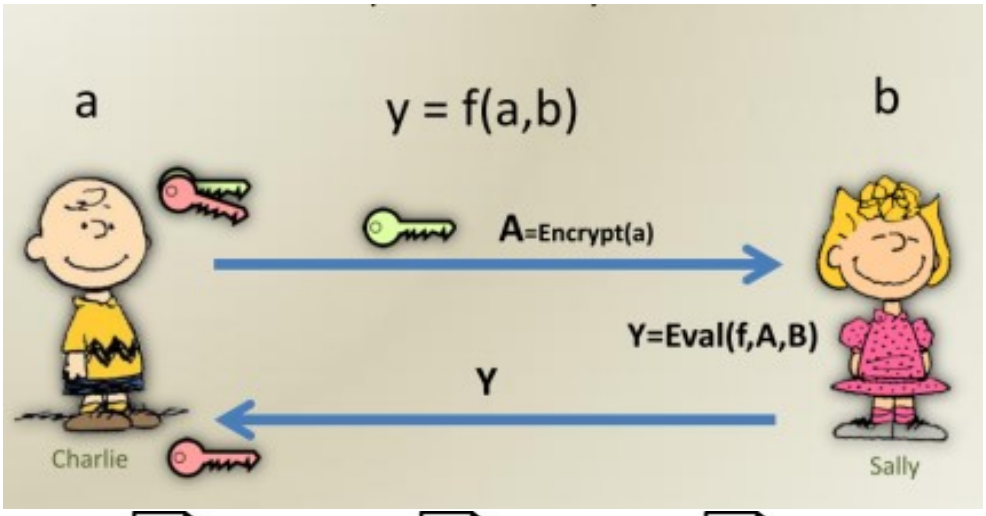

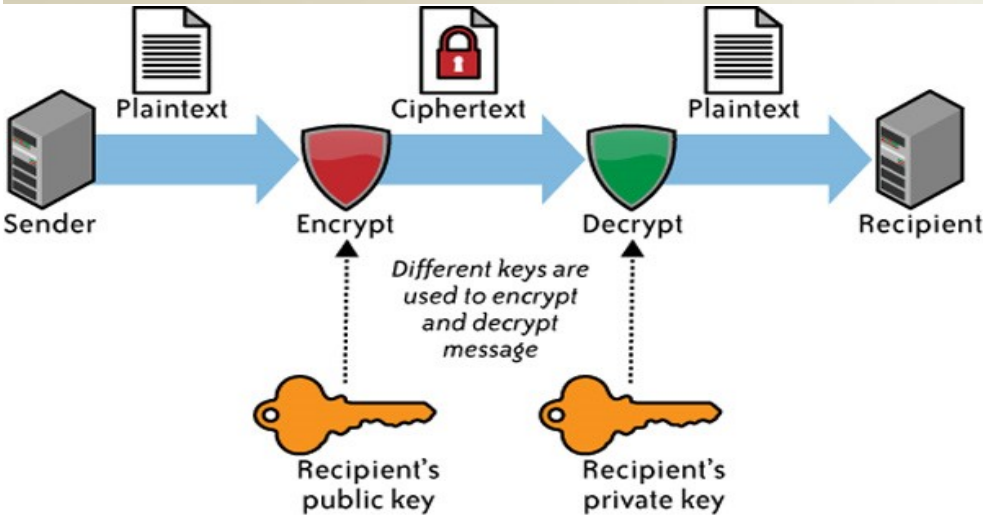

Homomorphic Encryption and its Applications

Abstract: In this talk, we give the historical perspective and discuss various applications of homomorphic encryption. Homomorphic encryption is an encryption algorithm that allows for computations directly on the encrypted data. We would present different homomorphic encryption models as proposed in the research community. The application of homomorphic encryption in cloud computing has been the focus and therefore, a major part of the paper will be devoted to discussion of security of cloud computing and the attempts made to utilize homomorphic encryption as a model for cloud computing security. We will also briefly discuss potential applications of homomorphic encryption in IoT.

Seminar Series Spring 2020

DATE

January 23, 2020

TIME

2:00—3:00 pm

PLACE

Sci&Tech Room 229

PRESENTERS

Dr. Daniel Okunbor, Professor, Department of Mathematics and Computer Science, FSU

Dr. Chekad Sarami, Associate Professor, Department of Mathematics and Computer Science, FSU

For more information please contact:

Dr. Valentin Milanov

Sci&Tech 408