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C H A N N E L
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Graduate Mathematics Seminar

Fitting Small Neural Net Models
to “PL-Smoothly” Interpolate Data Sets: Examples

Dr. Linda Ness

DIMACS Center at Rutgers



Abstract: The goal of this talk is to present several classes of small Neural Network models which can be simply fitted to interpolate a data set – without using gradient descent. The models are piecewise linear since they use the Relu activation function. A simple finite optimization problem is used to obtain models which attempt to avoid overfitting by using a “minimal number of pieces. The talk will use small dimension two data sets so that the concepts and models can be easily graphed. No background in deep learning or neural networks will be assumed.

When : Monday, November 2, 2020, 6:00 – 7:00 pm

Where : Online, via Zoom

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