Deep Learning for PDEs

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March 24, 2020

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Disclaimer

Acknowledgements

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Introduction

Neural Networks and Deep Learning

- 1.1 Architecture and operation of a Deep Neural Network
- 1.2 Further insights

Application to PDEs

- 2.1 The Poisson-Dirichlet problem
- 2.2 Some more in-depth theoretical results

Neural network implementation

Test cases

Conclusions and further developments

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