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Computing using Python. The

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some basic Python

(programming) con-cepts that

are relevant for numerical

algorithms. The later

chapters touch upon

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Boost.Python is specialised for wrapping C++ code in Python. The conclusion is that Python is "fast enough" for most computational tasks, and that its user friendly high-level language often makes up for reduced speed in comparison to compiled lower-level languages.

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Introduction to Python for Computational Science and Engineering. An Introduction to Python for Computational Science and Engineering, developed by Hans Fangohr (2003–2020). The content and

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methods taught are intended for a target audience of scientists and engineers who need to use computational methods and data processing in their work, but typically have no prior programming experience or formal computer science training.

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Python HansFangohr
September 21, 2016

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University of Southampton

United Kingdom

fangohr@soton.ac.uk 1.

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hardware, to parallel code
running on supercomputers.
Some projects are listed
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Python for computational
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The focus is on examples and applications of relevance to

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gluing existing applications
and tools, e.g. for
automating simulation, data
analysis, and visualization;
steering simulations and
computational experiments;
equipping old programs with
graphical user interfaces;
making computational Web
applications; and creating
interactive interfaces with
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scripting with Python makes
you much ...

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