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L'ubor Ladicky, y. ETH Zurich

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Using Regression Forests
SoHyeon Jeongy. ETH Zurich Barbara
Solenthalery. ETH Zurich Marc
Pollefeysy. ETH Zurich Markus
Grossy. ETH Zurich Disney Research
Zurich. Figure 1: The obtained results
using our regression forest method,
capable of simulating millions of
particles in realtime.

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Data-driven Fluid Simulations using
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ACM Transactions on Graphics
34(6):1-9; DOI:
10.1145/2816795.2818129.

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Pollefeys, M. Gross Proceedings of

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ACM SIGGRAPH Asia (Kobe, Japan,
2-5 November, 2015), ACM
Transactions on Graphics, vol. 34, no.
6, pp. 199:1--199:9 Abstract
Traditional fluid simulations require
large computational resources even
for an average sized scene with the
main bottleneck ...

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A deep convolutional GAN (DCGAN) is developed for large data-driven fluid modelling. First use of DCGANs for predicting spatio-temporal nonlinear fluid flows. Predictive results from DCGAN and high fidelity model are in a good agreement. Using DCGAN the computational cost is reduced by five

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orders of magnitude.

Data-driven modelling of nonlinear
spatio-temporal fluid ...

The data generated by DSMC are utilized to derive the underlying governing equations using a sparse regression method proposed recently.

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We demonstrate that this strategy is capable of deriving a variety of equations in fluid dynamics, such as the momentum equation, diffusion equation, Fokker–Planck equation and vorticity transport equation.

Data-driven discovery of governing

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The objective is to develop a data-driven surrogate to numerical flow simulations. Two-dimensional LB simulation runs are used to train and to predict the solutions. Convolutional neural networks is used for predicting the fluid dynamics. The developed

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model can capture the dynamics of
the problem at a much lower cost.

A data-driven surrogate to image-
based flow simulations in ...

Especially in grid based fluid
simulation, because of iterative
computation, the projection step is

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much more time consuming than other steps. In this paper, we propose a novel data driven projection method using an artificial neural network to avoid iterative computation.

Data driven projection method in

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Data-driven Fluid Simulations using
Regression Forests Convolutional
Neural Networks for Steady Flow
Approximation Application of
Convolutional Neural Network to
Predict Airfoil Lift Coefficient

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[GitHub - IllusoryTime/Image-Based-CFD-Using-Deep-Learning ...](#)

In fluid simulation, machine learning techniques have been used to replace [LJS15], speed up [TSSP17] or enhance existing solvers [XFCT18]. Given the amount of available fluid simulation data, data-driven

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approaches have emerged as attractive solutions.

Deep Fluids: A Generative Network for Parameterized Fluid ...

This source code is based on
mantaflow (<http://mantaflow.com/>),
and it interpolates smoke and liquid

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simulations in order to perform data-driven fluid simulations. The approach calculates a dense space-time deformation using grid-based signed-distance functions of the inputs.

Interpolations of Smoke and Liquid
Simulations | ACM ...

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Data-driven Fluid Simulations using
Regression Forests Another data-
driven approach [Raveendran et al.
2014] aimed to generate a large
number of fluid simulations by
interpolating existing preprocessed
simulations.

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This paper presents a novel generative model to synthesize fluid simulations from a set of reduced parameters. A convolutional neural network is trained on a collection of discrete, parameterizable fluid

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simulation velocity fields. Due to the capability of deep learning architectures to learn representative features of the data, our generative model is able to accurately approximate the training data set, while providing plausible interpolated in between.

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Deep Fluids: A Generative Network for
Parameterized Fluid ...

In this paper, we introduce a machine learning-based simulation framework of general-purpose multibody dynamics (MBD). The aim of the framework is to construct a well-

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Using Regression Forests,
trained meta-model of MBD systems,
based on a deep neural network
(DNN). Since the main advantage of
the meta-model is the enhancement of
computational efficiency in returning
solutions, the modeling would be
beneficial for ...

Download Ebook Data Driven Fluid Simulations Data-driven simulation for general- purpose multibody ...

@article{CRMECA_2020__348_8-9_7
29_0, author = {Yosra Kriaa and
Amine Ammar and Bassem Zouari},
title = {Data-driven model based on
the simulation of cracking process in
brittle material using the phase-field

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VRAI has won a Defence and Security
Accelerator (DASA) contract focused

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on improving the RAF 's ability to
measure and predict pilot
performance using a combination of
VR & data analytics technology. VRAI
in Gateshead ' s Proto Centre, and
RAFX based in the local airbase RAF
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