

## KIWI-biolab Symposium 2021

### The role of Machine Intelligence in the future of Bioprocess Development

November 11 - 12, 2021 / Berlin / virtual format

Zoom link:

<https://tu-berlin.zoom.us/j/62875360671?pwd=NjB0K0ZxVHJKejdQWStrcU92MDk3QT09>

#### Thursday November 11, 2021

13:45 *Opening of the room*

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14:00 Welcome Dr. Nico Cruz, Prof. Dr. Peter Neubauer

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14:15 Talk 1  
Chair: tba

**Prof. Dr. Andrey Ustyuzhanin**

*Head of the Laboratory of Methods for Big Data  
Analysis, Faculty of Computer Science, HSE University*

*Towards physical AI: from symbolic regression to  
physics-enabled predictive models*

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15:30 *Break*

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15:45 Talk 2  
Chair: tbu

**Prof. Dr. Gonzalo Guillén Gosálbez**

*Head of the Sustainable Process Systems Engineering  
Lab, Department of Chemistry and Applied Biosciences,  
ETH Zürich*

*On the use of mathematical programming to solve  
sustainability problems across scales*

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17:00 *End of day 1*

Friday November 12, 2021

14:00	Talk 3 Chair: tbu	<b>Prof. Dr. Victor Zavala</b>  <i>Head of the Scalable Systems Laboratory, Department of Chemical and Biological Engineering, University of Wisconsin-Madison</i>  <i>Thinking About Data: Representations, Transformations, and Applications</i>
15:15	Break	
15:30	Talk 4 Chair: tbu	<b>Prof. Dr. Lars Schmidt-Thieme</b>  <i>Head of the Information Systems and Machine Learning Lab, Institute of Computer Science, University of Hildesheim</i>  <i>Deep Learning for Time Series Forecasting</i>
16:45	Final remarks	Dr. Nico Cruz, Prof. Dr. Peter Neubauer
17:00	End of the Symposium	