# Siemens CKI Conference at TU Munich

## Simulation and Digital Twins

**May, 5th // Online**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Title</th>
<th>Topic</th>
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</table>
| 10:00 | Prof. Dr. Thomas F. Hofmann - President of TUM
Dr. Norbert Gaus - Head of Research in Digitalization and Automation | Welcome Addresses                                                                                                                     |
| 10:30 | Dr. Philipp Wolfrum - Siemens AG
Dr. Fabian Rhein - Siemens AG
Catharina Vos - CKI Manager at TUM | Siemens Innovation & Collaboration Ecosystem at TUM                                                                                   |
| 10:45 | Dr. Dirk Hartmann - Siemens AG
Prof. George Karniadakis - Brown University | Keynote: Design of Digital Twins Using Physics-Informed DeepOnets as Building Blocks                                                  |
| 11:30 | Dr. Christoph Heinrich - Siemens AG
PD Dr. Roland Wüchner - TUM | Simulation & Digital Twin – The enabler of cutting-edge products and services                                                         |
| 12:15 | Lunch Break & Marketplace (see next slide) with Posters & Demonstrators |                                                                                                                                     |
| 13:30 | Prof. Dr. Nikolaus Adams – TUM | Advances in data-driven modeling and simulation of flows                                                                             |
| 13:45 | Dr. Barbara Solenthaler - ETH Zürich | Data-driven Methods for Simulating, Reconstructing and Controlling Fluids                                                            |
| 14:00 | Jakob Trauer – TUM | Implementing Digital Twins in Technical Product Development – Challenges and Future Directions                                           |
| 14:15 | Dr. Asa MacWilliams - Siemens AG | Immersive Interaction with Digital Twins                                                                                             |
| 14:30 | Coffee Break & Marketplace (see next slide) with Posters & Demonstrators |                                                                                                                                     |
| 15:00 | Claudio Santarelli - Siemens DI SW | Academic Program of Digital Industry Software                                                                                       |
| 15:15 | Rafael Naß de Andrade - TUM Hyperloop | tba                                                                                                                                   |
| 15:30 | Veronika Heinrich - Siemens AG | Siemens Digital Twin Lab – An innovation hub for (co-)creating tangible Digital Twin solutions                                      |
| 15:45 | Theo Papadopoulos - Siemens AG | Work from Home… in the Lab!                                                                                                           |
| 16:00 | Poster Award, Wrap-Up & Closing |                                                                                                                                     |
## Siemens CKI Conference at TU Munich

### Simulation and Digital Twins

### Marketplaces

<table>
<thead>
<tr>
<th>Breakout Room 1</th>
<th>12:15 – 13:30</th>
<th>14:30 – 15:00</th>
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<tbody>
<tr>
<td>C. Kiener (Siemens AG)</td>
<td>Poster + Demonstrator</td>
<td>AM (tba)</td>
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<tr>
<td>A. Matschinski (TUM)</td>
<td>Poster &amp; Demonstrator</td>
<td>AM (tba)</td>
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<tr>
<th>Breakout Room 2</th>
<th>12:15 – 13:30</th>
<th>14:30 – 15:00</th>
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<tbody>
<tr>
<td>M. Röhl (Siemens AG)</td>
<td>Poster</td>
<td>tba</td>
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<tr>
<td>C. Santarelli &amp; M. Koczmann (Siemens DI SW)</td>
<td>Poster &amp; Demonstrator</td>
<td>Digital Industry Software Academic Program</td>
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<tr>
<th>Breakout Room 3</th>
<th>12:15 – 13:30</th>
<th>14:30 – 15:00</th>
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<tbody>
<tr>
<td>M. Uelker (Siemens AG + TUM)</td>
<td>Poster</td>
<td>Virtual Reality Lab</td>
</tr>
<tr>
<td>F. Köhler (Siemens + TUM)</td>
<td>Poster</td>
<td>Next Generation Model Predictive Control Use case autonomous driving</td>
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<th>Breakout Room 4</th>
<th>15:00 – 16:00</th>
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<tr>
<td>HR Talks (Siemens AG)</td>
<td>B. Leustenring</td>
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<tr>
<td>A. Böse</td>
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