# Curriculum vitae

Dr. Oliver Ullrich

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| **Areas of interest** | Modeling, simulation and optimization of transportation systems and technical systems, company engineering, simulation modeling, research management | |
| **Experience** | Program Director, Adaptive Reflective Teams <br> Fraunhofer Institute for Intelligent Analysis and Information Systems, <br> St. Augustin, Germany | 11/2017 – |
| | Director, Computational Transportation Lab <br> Industry-University Cooperative Research Center <br> Florida International University, Miami, Florida | 03/2014 – 08/2017 |
| | Research Associate, Institute of Computer Science <br> University of Cologne, Germany | 10/2006 – 02/2013 |
| **Education** | Doctorate of natural sciences (Dr. rer. nat.) in computer science <br> University of Cologne, Germany | 01/2014 |
| | Diploma in information systems (Dipl.-Wirt.-Inf.) <br> University of Cologne, Germany | 09/2006 |

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| **Patents/ Patent applications (selected out of eight)** | Ullrich, O.; Rishe, N.: Availability Estimation Method for Parking Lots Based on Incomplete Data. U.S. Patent No. 9,786,175, issued October 10, 2017, filed August 31, 2016. |
| | Ullrich, O.; Lückerath, D.; Rishe, N.: Intelligent, Demand-Responsive Transit Recommendation. U.S. Patent pending, appl. no. 14/991,341, filed January 8, 2016. |
| | Ullrich, O.; Lückerath, D.; Rishe, N.: Dynamic Routing of Transit Vehicles. U.S. Patent No. 9,601,101, issued March 21, 2017, filed September 08, 2015. |
| | Ullrich, O.; Rishe, N.: Emissions Reduction in Vehicle Parking. U.S. Patent No. 9,892,639, issued February 13, 2018, filed March 17, 2015. |
| **Refereed papers (selected out of 20+)** | Ullrich, O.; Azzouzi, C.; Brandt, B.; Lückerath, D.; Rishe, N.: Modeling Garage Parking. In: Simulation Notes Europe (SNE), Vol. 26, No. 1, 2016, pp. 1-8. |
| | Ullrich, O.; Lückerath, D.; Speckenmeyer, E.: Do regular time tables help to reduce delays in tram networks? - It depends! In: Public Transport, Vol. 8, No. 1, 2016, pp. 39-56. |
| | Ullrich, O.; Lückerath, D.; Speckenmeyer, E.: A robust schedule for Montpellier's Tramway network. In: Simulation Notes Europe (SNE), Vol. 25, No. 1, 2015, pp. 1-8. |
| | Ullrich, O.; Lückerath, D.; Speckenmeyer, E.: Model-based parallelization of discrete traffic simulation models. In: Simulation Notes Europe (SNE), Vol. 24, No. 3-4, 2014, pp. 115-122. |
| | Ullrich, O.; Lückerath, D. (Ed.): Proceedings of ASIM-Workshop Traffic Simulation 2012, ASIM-Mitteilung 143, ARGESIM/ASIM Pub., TU Vienna, 2012. |
| | Ullrich, O.; Lückerath, D.; Franz, S.; Speckenmeyer, E.: Simulation and optimization of Cologne's tram schedule. In: Simulation Notes Europe (SNE), Vol. 22, No. 2, 2012, pp. 69-76. |
| **Teaching** | Modeling and simulation, modeling and discrete optimization, parallel optimization methods, compiler design, software project management, programming. |
| **Professional service and awards** | Editorial board member for Simulation News Europe (SNE), paper reviewer for Public Transport, SNE, organizer and chairperson of German Association for Simulation (ASIM) Workshop on Traffic Simulation 2012, chair of ASIM SIG Traffic Simulation of (2011-2013), awarded by University and City of Cologne with Koelnpreis 2007 for diploma thesis on light rail rapid transit simulation, Student Government President and member of Academic Senate (1999-2001) |