Dr. rer. nat. Marc-Oliver Pahl

Birthday: 15.4.1979
Born in: Heidelberg

Marc-Oliver Pahl is a senior researcher and lecturer at Technische Universität München. He leads the Smart Space Orchestration research at the chair for Network Architectures and Services. His current research targets making Pervasive Computing become reality for "the masses". Major challenges for realizing software orchestration of smart spaces are semantically connecting, and managing distributed smart devices and services in a secure and easy to use way.

During his PhD he created the Distributed Smart Space Orchestration System (DS2OS). DS2OS structures and facilitates the creation of services that implement Pervasive Computing scenarios. The design of DS2OS provides the basis for crowdsourced software development for smart spaces. The resulting software maker culture complements the hardware maker culture that is currently emerging with platforms such as the Arduino.

In 2003, Marc-Oliver Pahl created one of the first eLearning-based University courses in Germany. Most likely his iLab was the first eLearning-based lab course worldwide. Since then he continuously develops his special blended learning concept for supporting and motivating students. Until 2016 more than 1800 students practically acquired basic and advanced networking skills in his lab courses. In 2013, Marc-Oliver received the Ernst Otto Fischer teaching price from Technische Universität München.

Languages

German	Mother tongue
English	Fluent in written and spoken form
French	Fluent in written and spoken form
Spanish	Basic
Latin	Latin proficiency certificate

Education

2014 — Dr. rer. nat. (summa cum laude/ with highest honor)
Technical University of Munich

2008 — Diploma degree (sehr gut/ best possible grade)
University of Tübingen
Major in computer graphics and media science

1998 — Abitur (1,6; 1 is the best grade)
Kurfürst-Friedrich-Gymnasium, Heidelberg
Major in mathematics and physics

Memberships

Institute of Electrical and Electronics Engineers (IEEE)
- Member of the IEEE Technical Committee on Factory Automation (TCFA)
- IEEE Communications Society Membership
- IEEE Computer Society Membership

Association for Computing Machinery (ACM)
- ACM Communications Society Membership
- Member of the German Chapter of the ACM

Gesellschaft für Informatik (GI)

Awards

2016	Selected Member 4th Heidelberg Laureate Forum Klaus Tschira Foundation
2013	Ernst Otto Fischer teaching award Technische Universität München

Acquired Funding

Smart Space Research: 250 000€
Teaching Research: 60 000€

Teaching Summary

Teaching Activities Marc-Oliver Pahl	Technische Universität München																	Universität Tübingen								
	2016ws	2016ss	2015ws	2015ss	2014ws	2014ss	2013ws	2013ss	2012ss	2012ws	2011ws	2011ss	2010ss	2010ws	2009ss	2009ws	2008ws	2007ws	2007ss	2006ws	2006ss	2005ss	2005ss	2004ws	2004ss	2003ws
Massive Open Online Course + virtual lab	N																									
PhD and Postdoc Research Kolloquium	X	X	X	X	X	N																				
Student Research Kolloquium	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N											
Lecture Series on Smart Spaces					X	N																				
Lecture and Lab Course iLab2	X	X	X	X	X	N	X	X	X	X	X	N														
Lecture and Lab Course iLab	X	X	X	X	X	X	X	X	X	X	X	X	X	X												
Master-Seminar	o	o	o	o	o	o	o	N	o	X	o	X	X	X	X	X										
Lecture Introduction to Computer Networks (together with Prof. Carle)		o		o		o		o		o		o		X		X										
Lecture and Lab Course Internetpraktikum	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	X	X	X	X	X	X	X	X	N
Repetition Lecture Introduction to Computer Science II (Informatik II)																								X		
Repetition Lecture Introduction to Computer Science I (Informatik I)																										N

Legend: X Course was held by me here · o Course continued by others here · N A new course format was created by me here

Teaching experience in years: 13+2 (TA)
Newly developed course formats: 9
Supervised student projects: 86

Science Summary

Conference papers: 8 (7 as first author)
Invited talks: 4
Panel participations: 1

Workshops *organized*: 6
Panels *organized*: 1
TPC/ Reviewer for: IEEE COMMAG, IEEE TIE, IEEE/ IFIP AnNet, IEEE GlobeCom, IEEE CIoT, IEEE Socne, …

Professional Experience

2016- — Advisor of the board
Munich Center for Internet Research (MCIR)

2014- — Senior researcher and lecturer
Technical University of Munich/ CS/ Network architectures & Svc.

2008 - 2014 — Researcher and lecturer
Technical University of Munich/ CS/ Network architectures & Svc.
Computer networks and distributed systems

2008 — Establishment of a new chair (Prof. Carle)
Technical University of Munich/ CS/ Network architectures & Svc.

2004 - 2008 — Lecturer
University of Tübingen/ CS/ Computer Networks & Internet

2005 - 2006 — Consultant for an eLearning DVD on networking
University of Tübingen/ Media Center

2003 - 2004 — Lecturer
University of Tübingen/ CS/ Symbolic Computation

2002 — Teaching assistant
University of Tübingen/ Institute for modern languages and literature

2001 - 2002 — Teaching Assistant
University of Tübingen/ CS/ Formal languages

for more details