

HCSE 2014

5th International Conference on Human-Centered Software Engineering

Conference Program
Paderborn, Germany
September 16th – 18th



WG 13.2 Methodologies for
User-Centered Systems Design



@HCSE2014

Contact: organizers@hcse-conference.org

Web: hcse-conference.org

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Foreword

Dear Participants,
Welcome to HCSE 2014 in Paderborn!

Innovative and networked computer technologies decisively enriched the way people are interacting today. Especially the mobility of people – always being on the way – created completely new scopes for software development using new kinds of devices and new kinds of user interfaces. Usability has been recognized as an important quality aspect in today's system development industry. However, the integration of usability activities and the establishment of human-centered design methodologies as part of the development lifecycle is still a challenge.



IFIP WG 13.2 is one of the five working groups of IFIP TC 13 (Technical Committee on Human Computer Interaction) of the IFIP (International Federation for Information Processing). This working group provides an umbrella for academia researchers, students and industry practitioners, who have an interest in fundamental theory, practices and technology related to the user-centered design philosophy.

The main goal of the IFIP WG 13.2 “Methodologies for User-Centered Systems Design” is to promote fundamental research and improve the practices of the user-centered systems design and engineering philosophy. While HCI research has made considerable progress on analysis and design methods for interactive systems, industrial and software engineering practices of HCI have been less successful. The working group has a significant role in bridging the gaps between HCI and the software development communities.

HCSE 2014 is the 5th edition of a bi-annual conference series promoted by IFIP WG 13.2. This year, we received an impressive selection of submissions from which we compiled an interesting technical program that covers a broad range of late-breaking and challenging research and development topics in the intersection of HCI, human-centered design, and software engineering. Among the addressed topics are adaptive and context-dependent applications, user involvement, improved usability, agile development and HCSE process integration, the use and reuse of models and development artifacts, etc.

Furthermore, we can proudly announce two outstanding keynote speeches by Margaret Burnett and Wil van der Aalst.

I hope that you enjoy the conference and have a great time in Paderborn while attending HCSE 2014!

Stefan Sauer
General Chair

and the entire organizing team



Sponsoring

Many thanks to our sponsoring partners who make the conference possible and also allow us to open both keynotes for free for interested local researchers and practitioners!

Platinum Sponsors



The mission of "Paderborn überzeugt." is to promote the attractiveness and image of our city to attract key players to the Paderborn area and keep them here. We are pursuing this goal mainly by:

- *Supporting the City of Paderborn in initiatives and projects that strengthen its economic position and promote its image*
- *Using all kinds of media for marketing activities*
- *Supporting public relations campaigns and events that highlight the region's economic, academic, cultural strengths and sports activities*
- *Cooperating with other associations and institutions in projects that promote the Paderborn area*



The close cooperation between science and industry is a key success factor in the transfer of research results into marketable innovations. To intensify this collaboration the University of Paderborn, technology companies and the Fraunhofer IPT Project Group Mechatronic Systems Design have the Software Innovation Campus Paderborn, short SICP.

Research at SICP is interdisciplinary and transorganizational and targets software innovations of the future!

Software Quality Lab



The s-lab - Software Quality Lab is the center of competence in software engineering at the University of Paderborn. It was founded in 2005 by professors of the department of computer science to carry out joint research and development projects together with industrial partners on up-to-date and relevant topics of software development and software quality assurance.

Gold Sponsors



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INFORMATIK**

Scientific Supporters



@HCSE2014

Contact: organizers@hcse-conference.org

Web: hcse-conference.org

Quick Information

WLAN/ Internet Access

You will receive a login for the guest WLAN of the Heinz Nixdorf MuseumsForum at the conference registration desk. In some parts of the building, the education roaming network “eduroam” is also available. It is provided by the University of Paderborn. All people with a certificate for “eduroam” may use this network.

Catering/ Lunch

You will get some coffee, tea, cold beverages and snacks in the conference rooms.

Every participant will also get vouchers for the lunch on Tuesday, Wednesday and Thursday together with the conference bag. You can use these vouchers in the restaurant “Hotspot” in the basement of the Heinz Nixdorf MuseumsForum. Special tables will be reserved in the sitting area behind the checkout.

Welcome Reception

There will be a welcome reception on Tuesday starting directly after the museum tours in the 2nd floor of the Zukunftsmeile around 6 p.m. The Zukunftsmeile is the black building 100 meter on the right side of the Heinz Nixdorf MuseumsForum when you are leaving it.

Conference Banquet

The conference banquet will be held in the “Klosterwirthshaus Dahlheim”. We have organized a special bus transfer because the venue is outside of Paderborn. The bus will start in front of the Heinz Nixdorf MuseumsForum at 5:45 p.m.

We will return from the banquet with our bus shuttle at 10:30 p.m. Multiple stops close to the hotels are organized.

Conference Office

The conference office will be open from 8:30 a.m. every day. It is located at the left-hand side of the front desk when entering the Heinz Nixdorf MuseumsForum.

Printed Proceedings

Additional copies of printed proceedings are available for purchase at the conference office.

Digital Proceedings

All conference participants may download a free digital copy of the conference proceedings. The free access will expire four weeks after the conference and will only be available entering the publisher website using the following link:

<http://hcse2014.uni-paderborn.de/program/proceedings.html>



Agenda 2014

Tuesday, September 16th

08:30 - 09:00	Registration
09:00 - 09:15	Opening
09:15 - 10:30	Keynote by Wil van der Aalst
10:30 - 11:00	Refreshment Break
11:00 - 12:30	S01: Integrating HCSE Processes
12:30 - 14:00	Lunch Break
14:00 - 15:30	S02: Building Adaptive Systems
15:30 - 16:00	Refreshment Break
16:00 - 18:00	HNF Museum Tours
18:00 - 19:30	Welcome Reception

Keynote by Wil van der Aalst

How People Really (Like To) Work: Comparative Process Mining To Unravel Human Behavior

Software forms an integral part of the most complex artifacts built by humans. Communication, production, distribution, healthcare, transportation, banking, education, entertainment, government, and trade all increasingly rely on systems driven by software. Such systems may be used in ways not anticipated at design time as the context in which they operate is constantly changing and humans may interact with them an unpredictable manner. However, at the same time, we are able to collect unprecedented collections of event data describing what people and organizations are actually doing. Recent developments in process mining make it possible to analyze such event data, thereby focusing on behavior rather than correlations and simplistic performance indicators. For example, event logs can be used to automatically learn end-to-end process models. Next to the automated discovery of the real underlying process, there are process mining techniques to analyze bottlenecks, to uncover hidden inefficiencies, to check compliance, to explain deviations, to predict performance, and to guide users towards "better" processes. Process mining reveals how people really work and often reveals what they would really like to do. Event-based analysis may reveal workarounds and remarkable differences between people and organizations. In his keynote, Wil van der Aalst



highlights current research on comparative process mining. One can compare event data with normative process models and see where people deviate. Some of these deviations may be positive and one can learn from them. Other deviations may reveal inefficiencies, design flaws, or even fraudulent behavior. One can also use process cubes to compare different systems or groups of people. Through slicing, dicing, rolling-up, and drilling-down we can view event data from different angles and produce process mining results that can be compared.

Prof.dr.ir. Wil van der Aalst is a full professor of Information Systems at the Eindhoven University of Technology (TU/e).

More information: <http://www.wis.win.tue.nl/~wvdaalst>

Session 01: Integrating HCSE Processes

✦ *Session Chair: FABIO PATERNÒ*

Extending OpenUP to Conform with the ISO Usability Maturity Model (Full Paper)

© ANDRÉS RODRÍGUEZ

Usability Engineering in the Wild: How Do Practitioners Integrate Usability Engineering in Software Development? (Full Paper)

© NIS BORNOE, JAN STAGE

An Autoethnographic Study of HCI Effort Estimation in Outsourced Software Development (Full Paper)

© SHALAKA DIGHE, ANIRUDHA JOSHI

Session 02: Building Adaptive Systems

✦ *Session Chair: PETER FORBRIG*

Understanding End-User Development of Context-dependent Applications in Smartphones (Full Paper)

© GABRIELLA LUCCI, FABIO PATERNÒ

Dynamic Interaction Plug-ins Deployment in Ambient Spaces (Full Paper)

© BASHAR ALTAKROURI, ANDREAS SCHRADER

LiLoLe – A Framework for Lifelong Learning from Sensor Data Streams for Predictive User Modeling (Full Paper)

© MIRKO FETTER, TOM GROSS

HNF Museum Tours

The Heinz Nixdorf MuseumsForum is the world's largest computer museum, as well as a vibrant venue. The 5,000-year history, present and future of information



technology is depicted over 6,000 m² of floor space, from the origins of numbers and characters in 3,000 B.C. all the way to the computer age of the 21st century. The 2,000-plus objects on show are presented within the broad context of social and economic history, making the exhibition appealing to laymen and computer experts alike. The extensive offering of events in the MuseumsForum complements the exhibition. Lectures, workshops and conferences focus on aspects of the far-reaching influence exerted by information technologies on both man and society at large. Thus the remit of the HNF is to address the issues of man's guidance and education in the present-day information society.

The Heinz Nixdorf MuseumsForum is sponsored by the Stiftung Westfalen, founded by Heinz Nixdorf himself. This concentrates on promoting science and teaching, especially in the field of information technology.

We have organized two guided tours through the exhibition of the museum, which will start in the foyer at 4 p.m. and 4:15 p.m. One tour will be held in English and one in German. Due to the limited places for a tour, we kindly ask the German speaking people to join the German tour.

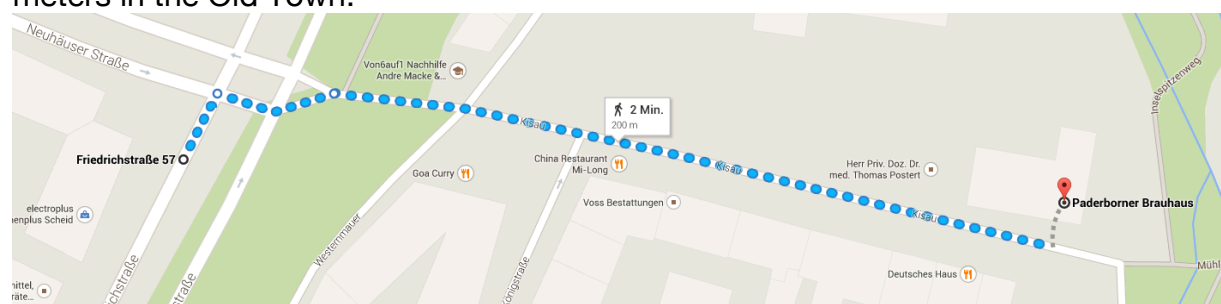


Picture Credits: Jan Braun / HNF

Welcome Reception

After the guided museum tours, we will have a welcome reception with some drinks and snacks in the Zukunftsmeile, the black building next door. When you leave the building turn to the right and walk about 100 meters over the skywalk to the black building. There you will enter the building on the 1st level. Use the elevator or the staircases up to 2nd level and join us for the welcome reception.

We will also make a reservation in the “Paderborner Brauhaus” (Address: Kisau 2) – a restaurant in the city center – for 8 p.m. for all those participants who would like to meet for dinner. All dishes and drinks in the restaurant are on your own account. To join us there, you may use the bus line 11 back to the city center and leave the bus at the stop “Neuhäuser Tor”. Cross the street at the traffic lights and walk about 200 meters in the Old Town.



Wednesday, September 17th

09:00 - 10:30	Keynote by Margaret Burnett
10:30 - 11:00	Refreshment Break
11:00 - 12:30	S03: Considering Humans
12:30 - 14:00	Lunch Break
14:00 - 15:30	S04: Improving Usability
15:30 - 16:00	Refreshment Break
16:00 - 17:30	UX Session
18:00 - 22:00	Conference Banquet

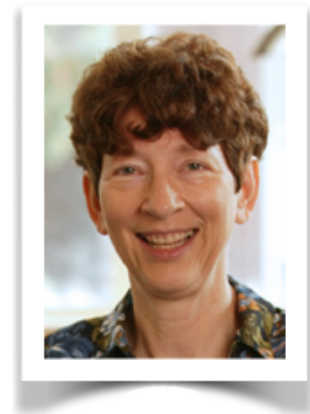
Keynote by Margaret Burnett

End-User Software Engineering: Beyond the Silos

End-user programming has become pervasive in our society, with end users programming simulations, courseware, spreadsheets, macros, mashups, and more. In this talk, we will consider what happens when we add to end-user programming environments consideration of the software lifecycle beyond the "coding" phase. Considering other phases is necessary, because there is ample evidence that the programs end users create are filled with errors. To help address this problem, we have been working on a software "engineering" methodology designed specifically for end users.

Because the user may have no expertise or even interest in software engineering, we do not propose to transform end users into engineers. Rather, our approach is to tightly integrate elements of design, implementation, component integration, debugging, testing, and maintenance, supported behind the scenes by analysis and inferential reasoning, to help the user reason about the dependability of their software as they work with it, in a manner that respects the user's problem-solving directions to an extent unprecedented in existing software development environments.

In this talk, we describe the present state of EUSE, and challenges in moving forward. We show the challenges of avoiding becoming over-siloed. We then show that focusing on the in-the-moment intents of end-user developers can be used to derive a number of promising directions forward for EUSE researchers, and how theories can help us further de-silo future EUSE research. Finally, we discuss how overcoming challenges for the future of end-user software engineering may also bring direct benefits to the future of "classic" software engineering.



Prof. Dr. Margaret Burnett is a full professor for Computer Science in the School of EECS at Oregon State University.

More information: <http://eecs.oregonstate.edu/people/burnett>

Session 03: Considering Humans

✦ *Session Chair: MARTA LÁRUSDÓTTIR*

Creating and Using Personas in Software Development: Experiences from Practice (Short Paper)

© JANE BILLESTRUP, JAN STAGE, ANDERS BRUUN, LENE NIELSEN, KIRA STORGAARD HANSEN

Seeding the Design Process for Future Problems (Short Paper)

© PETER NEWMAN, STEPHEN FORSHAW, MARIA ANGELA FERRARIO, WILL SIMM, ADRIAN FRIDAY, JON WHITTLE

To Trust or not to Trust – Six Recommendations for System Feedback in a Dynamic Environment (Full Paper)

© ALEXANDER G. MIRNIG, ELKE BECK, SANDRA TRÖSTERER, MANFRED TSCHELIGI

Aspects of Human-centred Design in HCI with Older Adults: Experiences from the Field (Short Paper)

© ANA CORREIA DE BARROS, RÊGO SÍLVIA, ANTUNES JOÃO

User Centered Inclusive Design for People with Dyslexia: Experiences from a Project on Accessibility (Short Paper)

© DOMINIK RUPPRECHT, RAINER BLUM, BIRGIT BOMSDORF

Session 04: Improving Usability

✦ *Session Chair: PHILIPPE PALANQUE*

Active Collaborative Learning: Supporting Software Developers in Creating Redesign Proposals (Full Paper)

© ANDERS BRUUN, JANNE JUL JENSEN, MIKAEL SKOV, JAN STAGE

Usage-based Automatic Detection of Usability Smells (Full Paper)

© PATRICK HARMS, JENS GRABOWSKI

On the Delivery of Recommendations in Social Software: A User's Perspective (Short Paper)

© NAN JIANG, RAIAN ALI

Usability of Single- and Multi-Factor Authentication Methods on Tabletops: A Comparative Study (Short Paper)

© ANDERS BRUUN, KENNETH JENSEN, DIANNA KRISTENSEN



UX Session

✦ *Session Chair: REGINA BERNHAUPT*

The user experience session allows the attendees of HCSE to develop conference content in a user-centered way. Goal is to have a panel that is developed during the conference: the topic is chosen by the HCSE participants using theme cards and the panel participants are elected by all conference attendees. Theme cards and voting cards will be found in your conference bag.

Conference Banquet

After a long day with great talks and lots of new impressions, we will encourage the social networking and personal discussions on our second conference day during the conference banquet. Therefore, we will start around 5:45 p.m. with our bus shuttle directly in front of the Heinz Nixdorf MuseumsForum to the 'Klosterwirthshaus Dahlheim', an old convent with its own little beer brewery.

Reopened in 2007, the historical convent area and the inn will let you feel 500 years of monastery history and you will sit directly in it. The old area also includes a late Gothic church, some stables, a mill, a forge as well as several gardens and ponds.



Picture Credits: Klosterwirthshaus Dahlheim / Stiftung KOLPING-FORUM Paderborn

We will leave Kloster Dahlheim with the bus shuttle at 10:30 p.m. On the way back, the bus will stop on different locations in Paderborn close to the hotels.

Bus stop	Hotels
Detmolder Tor	IN VIA Hotel
Neuhäuser Tor	Ibis Paderborn City, Hotel Zur Mühle, Best Western Premier Arosa Hotel
Central Railway Station	B&B Hotel
Fürstenweg	Welcome Hotel
MuseumsForum	Conference parking lot
Please tell us if you are staying in a different hotel. We will try to arrange another stop.	



Thursday, September 18th

09:00 - 10:30	S05: Building on Models
10:30 - 11:00	Refreshment Break
11:00 - 12:30	S06: Introducing Agile Development
12:30 - 12:45	Conference Closing
12:45 - 14:00	Lunch Break
14:00 - 15:30	IFIP WG 13.2 Meeting (open)
16:30 - 18:00	City Tours
19:00 - 22:00	Farewell Drinks (on your own account)

Session 05: Building on Models

★ *Session Chair: CRISTIAN BOGDAN*

Rapid Task-Models Development using Sub-models, Sub-routines and Generic Components (Full Paper)

© PETER FORBRIG, CÉLIA MARTINIE, PHILIPPE PALANQUE, MARCO WINCKLER, RACIM FAHSSI

CASSIS: A Language for Reusable User Interface Designs (Short Paper)

© JAN VAN DEN BERGH, KARIN CONINX

Bridging User Context and Design Models to Build Adaptive User Interfaces (Full Paper)

© MLADAN JOVANOVIĆ, STARCEVIC DUSAN, ZORAN JOVANOVIC

Model-based Development of Adaptive UIs for Multi-Channel Self-Service Systems (Short Paper)

© ENES YIGITBAS, HOLGER FISCHER, THOMAS KERN, VOLKER PAELKE

Session 06: Introducing Agile Development

★ *Session Chair: MARCO WINCKLER*

Continuous Improvement in Agile Development Practice – The Case of Value and Non-Value Adding Activities (Full Paper)

© MARTA KRISTIN LÁRUSDÓTTIR, ÅSA CAJANDER, MICHAEL SIMADER

Integrating Agile Development Processes and User Centered Design – A Place for Usability Maturity Models?



(Full Paper)

© DINA SALAH, RICHARD PAIGE, PAUL CAIRNS

Human Centricity in Agile: Perceptions from the Fields of HCI and Marketing (Short Paper)

© LEYDI CABALLERO, ANA M. MORENO, AHMED SEFFAH

Improving UX Work in Scrum Development: A Three-Year Follow-Up Study in a Company (Short Paper)

© KATI KUUSINEN

City Tours & Farewell Drinks

“Situated at the heart of Germany, midway between the Northern Lowlands and the mountainous central region, the charming city of Paderborn is full of many diverse and delightful attractions.

The city's wider community extends across eastern North-Rhine Westphalia and encompasses a catchment area of half a million people, the majority of whom live in the more rural outlying villages. There are 146,400 inhabitants (as recorded in July 2014) living within the city, many of which moved to Paderborn during the last thirty years.

The city has numerous qualities to tempt the visitor. With over 1200 years of history to its credit, it is steeped in historical tradition, which has shaped the cityscape. The many parks and green spaces beginning right by the shopping precinct at Pader Springs are much appreciated by city-dwellers and visitors alike. Despite the recent modernization and expansion of the city, it remains a user-friendly place that can be easily navigated. In comparison with other cities, inhabitants have only a short distance to travel from home to work. Paderborn's appeal thus lies in the combination of many different qualities. Ancient and modern, sacred and spiritual, economic and political are all combined, each contributing to the city's distinctive character.”

We have organized a guided city tour through Paderborn. Therefore, we will meet in the city center in front of the Paderhalle (Address: Heiersmauer 45). You may take bus line 11 until the stop “Neuhäuser Tor” and either walk from there or you may take bus line 6, 28 or 68 on the other side of the street and go one stop until “Maspernplatz”. The Paderhalle is the big building on your right side.

After the city tour we will have some farewell drinks in a location nearby.



Picture Credits: Holger Fischer / s-lab – Software Quality Lab



Restaurants

Restaurants in the city

CAFES + BISTROS

- La Maison**
Rosenstr. 13-15, Tel. 0 52 51 / 8 78 62 80
www.lamaison-paderborn.de
- Café-Restaurant Ostermann am Marienplatz**
Marienplatz 6-8, Tel. 0 52 51 / 20 78 23
www.cafe-ostermann.de
- Café-Restaurant Ostermann am Dom**
Markt 4, Tel. 0 52 51 / 8 77 39 44
www.cafe-ostermann.de
- Café-Bistro Ostermann am Museum**
Markt 17, Tel. 0 52 51 / 8 78 74 88
www.cafe-ostermann.de
- Caféhaus & Bistro Plückerbaum**
Am Abdinghof 32, Tel. 0 52 51 / 2 77 44
www.cafe-plueckebaum.de
- Tee und Café Stübchen**
Bachstr. 1, Tel. 0 52 51 / 12 24-0
www.galerie-hotel.de

RESTAURANTS

- Restaurant im Hotel Aspethera**
Am Busdorf 7, Tel. 0 52 51 / 28 88-100
www.hotel-aspethera.de
- Restaurant Balthasar**
Warburger Str. 28, Tel. 0 52 51 / 2 44 48
www.restaurant-balthasar.de
- Restaurant „Chalet“ im Best Western Premier Arosa Hotel**
Westernmauer 38, Tel. 0 52 51 / 1 28-0
www.arosa-paderborn.de
- Deutsches Haus**
Kisau 9, Tel. 0 52 51 / 2 21 36
www.gaumenfreude.info
- Bar Trattoria Il Postino**
Jühenplatz 1-3, Tel. 0 52 51 / 29 61 70
www.trattoria-ilpostino.de
- SERGIO espresso & wine bar**
Jühenplatz 1-3, Tel. 0 52 51 / 1 47 68 45
www.espressobar-sergio.de
- Kampus Café - Bar - Restaurant**
Kamp 12, Tel. 0 52 51 / 89 29 797
www.gaumenfreude.info
- Café-Restaurant Klingenthal**
Westernstr. 22-24, Tel. 0 52 51 / 2 86-0
www.klingenthal.com
- Der Kupferkessel**
Restaurant - Wein- und Bierbar
Marienstr. 14, Tel. 0 52 51 / 2 36 85
www.kupferkessel-paderborn.de
- La Petite Galerie**
Bachstr. 1, Tel. 0 52 51 / 12 24-0
www.galerie-hotel.de
- Libori-Eck**
Liboristr. 5, Tel. 0 52 51 / 2 52 45
www.libori-eck.de

Orangerie - Café-Bistorant

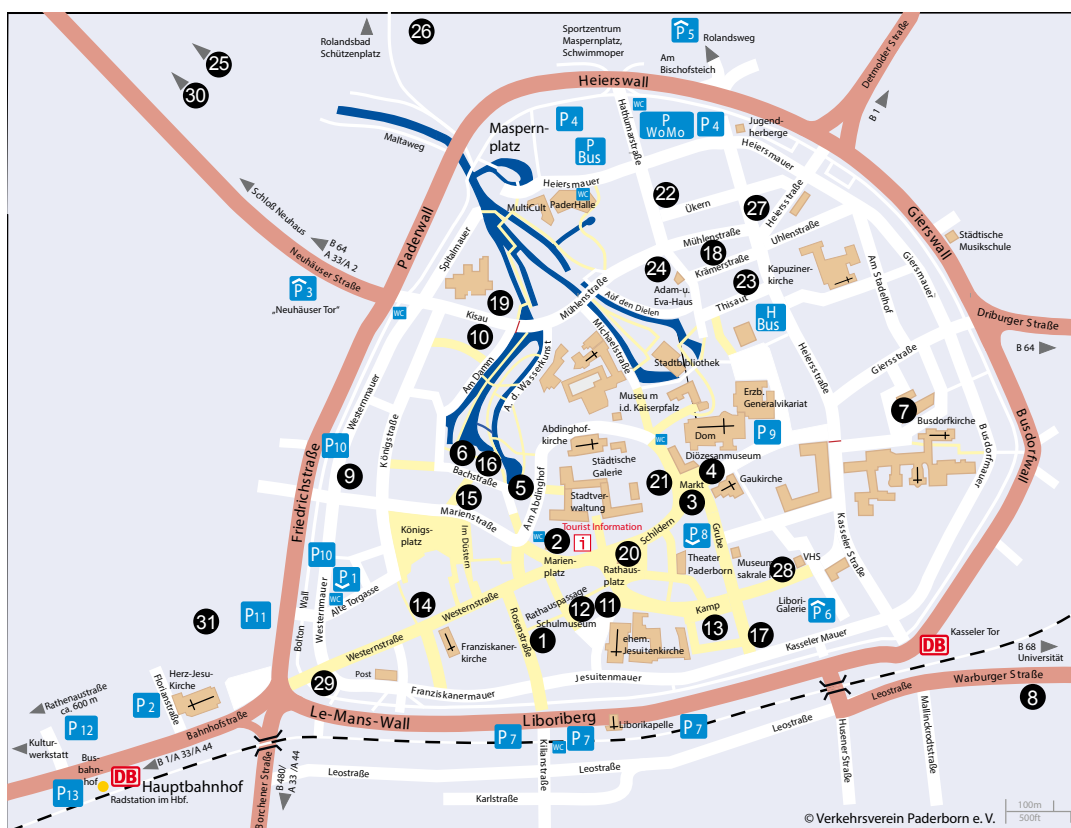
- Mühlenstr. 6, Tel. 0 52 51 / 8 78 48 86
www.orangerie-paderborn.de
- Paderborner Brauhaus**
Kisau 2, Tel. 0 52 51 / 28 25 54
www.gaumenfreude.info
- Restaurant Ratskeller**
Rathausplatz 1, Tel. 0 52 51 / 20 11 33
www.ratskeller-paderborn.de
- ROAD HOUSE downtown**
Markt 9, Tel. 0 52 51 / 8 77 11 42
www.roadhouse-downtown.de
- Restaurant im Hotel StadtHaus**
Hathumarstr. 22 / Ükern 1
Tel. 0 52 51 / 1 88 99-10
www.hotel-stadthaus.de
- Thi-Brunnen**
Thisaut 4, Tel. 0 52 51 / 2 22 15
- Restaurant Weinkrüger**
Hathumarstr. 9, Tel. 0 52 51 / 2 77 01
www.weinhaus-weinkrueger.de
- Restaurant „Paderau“ im Welcome Hotel Paderborn**
Fürstenweg 13, Tel. 0 52 51 / 28 80-0
www.welcome-hotel-paderborn.de
- Schützenhof Paderborn**
Restaurant - Säle - Biergarten
Schützenplatz 1, Tel. 0 52 51 / 15 62-0
www.schuetzenhof.de
- PUBS + BARS**
- Blauer Engel**
Heiersstr. 33, Tel. 01 60 / 90 70 98 99
www.blauer-engel.com
- Feuerstein**
Kamp 31, Tel. 0 52 51 / 29 10 60
- Der KUMP**
Am Westerntor 1, Tel. 0 52 51 / 2 75 82
www.kump-paderborn.de
- Gaststätte „Plückers“ im Welcome Hotel Paderborn**
Fürstenweg 13, Tel. 0 52 51 / 28 80-0
www.welcome-hotel-paderborn.de
- Riemeke-Eck**
Fürstenbergstr. 1, Tel. 0 52 51 / 29 11 36
www.riemeke-eck.de
- More information on the above-mentioned restaurants as well as other restaurants outside of the inner city can be found on our website:
www.paderborn.de/tourismus

This list does not claim to be exhaustive. All information is given to the best of our knowledge but without engagement. As of: Nov. 2012



Locations

- | | |
|---|--|
| 1 La Maison | 17 Libori-Eck |
| 2 Café-Restaurant Ostermann am Marienplatz | 18 Orangerie |
| 3 Café-Restaurant Ostermann am Dom | 19 Paderborner Brauhaus |
| 4 Café-Bistro Ostermann am Museum | 20 Restaurant Ratskeller |
| 5 Caféhaus & Bistro Plückerbaum | 21 ROAD HOUSE downtown |
| 6 Tee und Café Stübchen | 22 Restaurant im Hotel StadtHaus |
| 7 Restaurant im Hotel Aspethera | 23 Thi-Brunnen |
| 8 Restaurant Balthasar | 24 Restaurant Weinkrüger |
| 9 Restaurant „Chalet“ im Best Western Premier Arosa Hotel | 25 Restaurant „Paderau“ im Welcome Hotel Paderborn |
| 10 Deutsches Haus | 26 Schützenhof Paderborn |
| 11 Bar Trattoria Il Postino | 27 Blauer Engel |
| 12 SERGIO espresso & wine bar | 28 Feuerstein |
| 13 Kampus Café - Bar - Restaurant | 29 Der KUMP |
| 14 Café-Restaurant Klingenthal | 30 Gaststätte „Plücker“ im Welcome Hotel Paderborn |
| 15 Der Kupferkessel | 31 Riemeke-Eck |



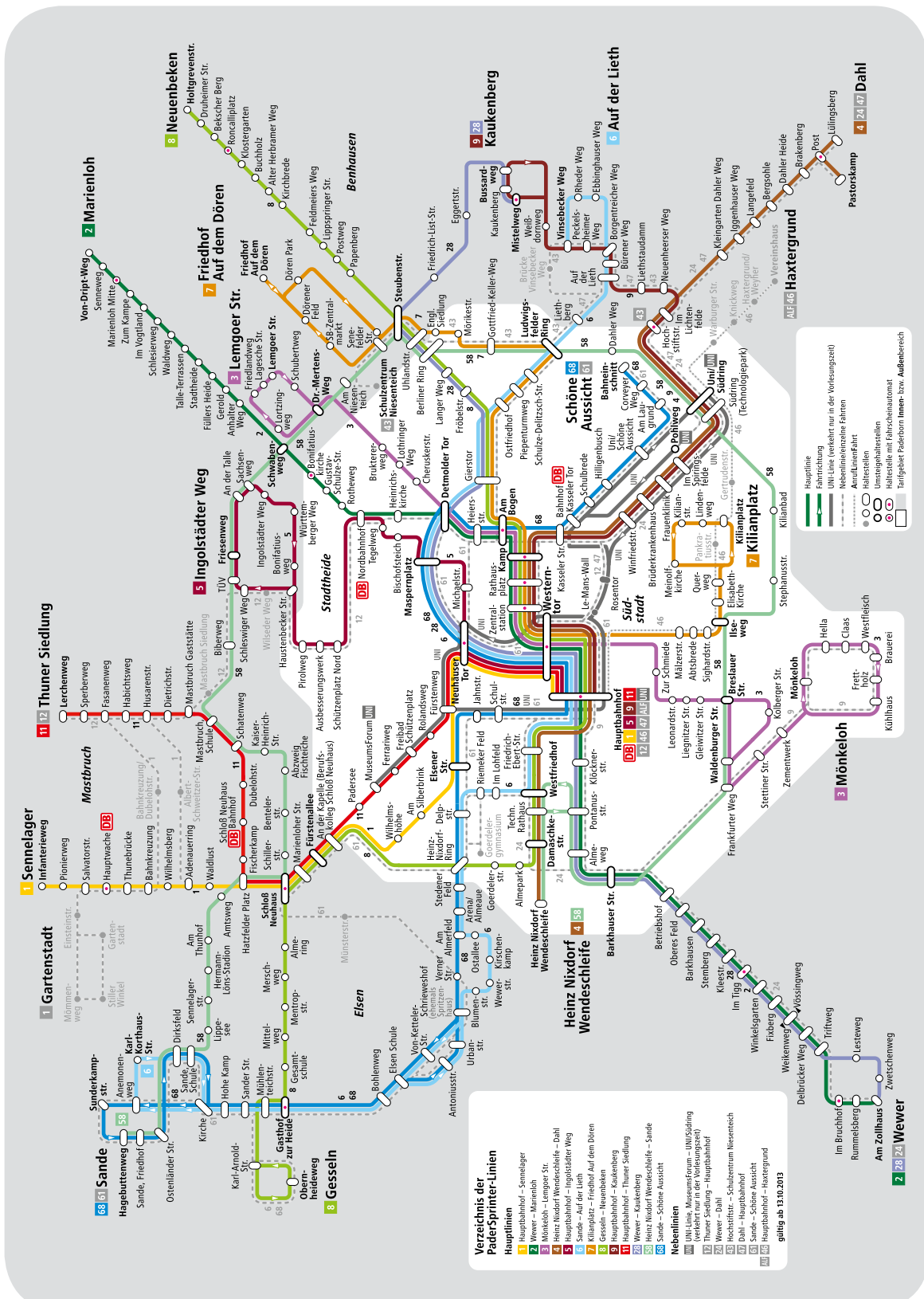
Area Map



Public Bus Transportation

Starting at the central railway station (“Hauptbahnhof”) take bus line 11 towards “Schloss Neuhaus / Thuner Siedlung” until the bus stop “MuseumsForum”. The bus line goes every 30 minutes and will take around 9 minutes for a ride.





Verzeichnis der Pader-Sprinter-Linien

Hauptlinien

- 1 Hauptbahnhof – Sennelager
- 2 Wever – Marienloh
- 3 Mönkeloh – Wever
- 4 Sande – Auf der Lieth
- 5 Hauptbahnhof – Ingolstädter Weg
- 6 Sande – Friedhof Auf dem Dören
- 7 Hauptbahnhof – Kalkenberg
- 8 Hauptbahnhof – Thunier Siedlung
- 9 Wever – Kalkenberg
- 10 Heinz Nixdorf Wendeschleife – Sande
- 11 Sande – Schöne Aussicht

Nebenlinien

- 12 Uni-Linie, MuseumsForum – UNISüdring (Fahrtrichtung nur in der Vorlesungszeit)
- 13 Thunier Siedlung – Hauptbahnhof
- 14 Thunier Siedlung – Hauptbahnhof
- 15 Hochhofstr. – Schulzentrum Mesemeech
- 16 Dahl – Hauptbahnhof
- 17 Sande – Schöne Aussicht
- 18 Hauptbahnhof – Haxtersgrund

gültig ab 13.10.2013



11 Hauptbahnhof → Freibad/Schützenplatz → MuseumsForum → Schloß Neuhaus → Mastbruch → Thuner Siedlung

MONTAG BIS FREITAG																						
BUS	Stunde 4		5		6		7		8-18		19		20		21-22		23					
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Hauptbahnhof	44	32	02	32	37	00	16	32	46	02	16	32	46	02	16	45	08	16	47	16	47	17
Westerntor	46	34	05	35	39	03	18	35	48	05	18	35	48	05	18	47	10	18	49	18	49	19
Neuhäuser Tor	47	35	07	37	41	05	20	37	50	07	20	37	50	07	20	48	11	20	50	20	50	20
Fürstenweg	48	36	08	38	42	06	21	38	51	08	21	38	51	08	21	49	12	21	51	21	51	21
Rolandsweg					43		22	52		22		52		22		22		22		22		
Freibad/Schützenplatz					44		23	53		23		53		23		23		23		23		
Ferrariweg					45		24	54		24		54		24		24		24		24		
MuseumsForum					46		25	55		25		55		25		25		25		25		
Padersee					47		26	56		26		56		26		26		26		26		
An der Kapelle	52	40	13	43	48	11	27	43	57	13	27	43	57	13	27	53	16	27	55	27	55	25
Fürstenallee	53	41	14	44	49	12	28	44	58	14	28	44	58	14	28	54	17	28	55	28	55	25
Marienloher Straße	54	42	15	45	50	13	29	45	59	15	29	45	59	15	29	55	18	29	56	29	56	26
Schloß Neuhaus	55	43	16	46	51	14	30	46	00	16	30	46	00	16	30	56	19	30	57	30	57	27
Hatzfelder Platz	56	44	17	47	52	15	31	47	01	17	31	47	01	17	31	57	20	31	57	31	57	27
Schloß Neuhaus Bahnhof					53		32	02		32		02		32		32		32		32		
Dubelohstraße					54		33	03		33		03		33		33		33		33		
Schatenweg					56		35	05		35		05		35		35		35		35		
Mastbruch Schule					57		36	06		36		06		36		36		36		36		
Mastbruch Gaststätte					58		37	07		37		07		37		37		37		37		
Dietrichstraße					59		38	08		38		08		38		38		38		38		
Husarenstraße					00		39	09		39		09		39		39		39		39		
Habichtsweg					00		39	09		39		09		39		39		39		39		
Fasanenweg					01		40	10		40		10		40		40		40		40		
Sperberweg					01		40	10		40		10		40		40		40		40		
Lerchenweg					02		41	11		41		11		41		41		41		41		

1 Linie 1 (Sennelager)

11 Thuner Siedlung → Mastbruch → Schloß Neuhaus → MuseumsForum → Freibad/Schützenplatz → Hauptbahnhof

MONTAG BIS FREITAG																						
BUS	Stunde 5		6		7		8-19		20-22		23											
	1	1	1	1	1	A	1	B	1	1	1	1										
Lerchenweg	18		17		47		03	13		47		17		47		47		47		47		
Sperberweg	19		18		48		04	14		48		18		48		48		48		48		
Fasanenweg	11	20	07		19		49		05	15		49		19		49		49		49		
Habichtsweg	11	20	07		19		49		05	15		49		19		49		49		49		
Husarenstraße	12	21	08		20		50		06	16		50		20		50		50		50		
Dietrichstraße		22		21		51		07	17		51		21		51		51		51		51	
Mastbruch Gaststätte		23		22		52		08	19		52		22		52		52		52		52	
Mastbruch Schule		24		23		53		09	20		53		23		53		53		53		53	
Schatenweg		25		24		54		10	21		54		24		54		54		54		54	
Dubelohstraße		26		25		55		11	22		55		25		55		55		55		55	
Schloß Neuhaus Bahnhof		27		26		56		12	24		56		26		56		56		56		56	
Fischerkamp		28		27		57		13	25		57		27		57		57		57		57	
Hatzfelder Platz	15	29	11	29	37	59	09	15	27	33	35	59	12	29	42	59	16	59	16	59	16	46
Schloß Neuhaus	16	30	12	31	39	01	11	17	30	35	37	01	14	31	44	01	17	01	17	01	17	47
Marienloher Straße	17	31	13	32	40	02	12	18	31	36	38	02	15	32	45	02	18	02	18	02	18	48
Fürstenallee	18	32	14	33	41	03	13	19	32	37	39	03	16	33	46	03	19	03	19	03	19	49
An der Kapelle	19	33	15	34	42	04	14	20	33	38	40	04	17	34	47	04	20	04	20	04	20	50
Padersee		34		35		05		21	34		41		05		35		05		05		05	
MuseumsForum		35		36		06		22	35		42		06		36		06		06		06	
Ferrariweg		35		37		07		23	36		43		07		37		07		07		07	
Freibad/Schützenplatz		36		38		08		24	37		44		08		38		08		08		08	
Rolandsweg		37		39		09		25	38		45		09		39		09		09		09	
Fürstenweg	23	38	19	40	47	10	19	26	40	43	46	10	22	40	52	10	24	10	24	10	24	54
Neuhäuser Tor	24	39	20	41	48	11	20	27	41	44	47	11	23	41	53	11	25	11	25	11	25	55
Westerntor	26	41	22	43	50	13	22	29	43	46	49	13	25	43	55	13	26	13	26	13	26	56
Hauptbahnhof	28	43	24	45	52	15	24	31	45	48	51	15	27	45	57	15	28	15	28	15	28	58

A nur an Schultagen; ab Hauptbahnhof weiter bis Goerdeler Straße

B nur an Schultagen

1 Linie 1 (Hauptbahnhof)

