

Hardware Support for Cloud Database Systems in the Post-Moore's Law Era

[Dagstuhl Seminar 24162](#)



| Time | Topic |
|---------------|---------------------------------------|
| Sunday | Arrival |
| until 3pm | Self-service check-in |
| 3:00-7:00 | Check-in |
| after 6pm | Buffet dinner |
| after 7pm | Self-service check-in |

| Time | Topic | Speakers |
|---------------|---|---|
| Monday | Setting the Stage & The Impact of AI | |
| 7:30-8:45 | Breakfast | |
| 9:00 | Welcome | Organizers |
| 9:15 | Self-introductions: Name, affiliation, area, and a non-technical thing about you (participant list) | All |
| 9:45 | Opinionated Overview: Data Center Hardware - Where are we and where are we going? | Mark (UW/Microsoft) Dave P (Berkeley) |
| 10:30 | Break | |
| 11:00 | Discussion: Data Center Hardware | All |
| 11:45 | TPU & Co Overview | Dave P (Berkeley) |
| 12:15 | Lunch (assigned tables – check placecards) | |
| 2:00 | Opinionated Overview: Cloud Databases - Where are we and where are we going? | David B (Google) Justin L (Google) |
| 2:30 | Discussion: Cloud Databases | All |
| 3:00 | Break (Kaffee und Kuchen* available) | |
| 3:30 | Impulse Talk: AI and the Future of Databases (software) | Tim (MIT) Carsten (TU Darmstadt) |
| 4:00 | Discussion: AI and the Future of Databases (SW) | All |
| 4:30 | Break | |
| 4:45 | Impulse Talk: AI and the Future of Databases (hardware) | Holger (U Heidelberg) Anastasia (EPFL) |
| 5:15 | Discussion: AI and the Future of Databases (HW) | All |
| 5:45 | Personal Time | |
| 6:00 | Dinner (assigned tables) | |
| 8:00 | Gong Show and Cheese Plates in the Wine Cellar : The Dead Database Hardware Society | All |

* Traditional German Coffee and Cake, served in the dining area

| Time | Topic | Speakers |
|----------------|---|---|
| Tuesday | Other Futures for Cloud Databases | |
| 7:30-8:45 | Breakfast | |
| 9:00 | Administrative Issues: Field Trip and Dinner Out | Carsten |
| 9:05 | Impulse Talk: A Disaggregated Heterogeneous Future | Gustavo (ETHZ) Jana (TU München) |
| 9:45 | Discussion: A Disaggregated Future | All |
| 10:30 | Break | |
| 10:45 | Impulse Talk: A Fully Programmable Future for Database Systems | Zsolt (TU Darmstadt) |
| 11:30 | Discussion: A Programmable Future | All |
| 12:15 | Lunch | |
| 1:45 | Group picture (meet in front of seminar building) | All |
| 2:00 | Impulse Talk: The Database Machine Re-invented? Dream up your own hardware | Jignesh (CMU) Lisa (Duke) |
| 2:45 | Discussion: The Database Machine Reinvented | All |
| 3:15 | Report back from lunch table topics | Table Leads |
| 3:30 | Break (Kaffee und Kuchen available) | |
| 4:00 | Discussion: Define possible futures and discussion group topics (4-5 groups) | All |
| 4:30 | Discussion Groups Meet | Groups |
| 5:30 | Personal Time | |
| 6:00 | Dinner | |
| 8:00 | Gong Show and Cheese Plates in the Wine Cellar: Moon Shots and Roof Shots | All |

Note: starting Tuesday, times and topics are subject to change during the workshop as discussions bring up new lines of discussion.

| Time | Topic | Speakers |
|------------------|--|-------------|
| Wednesday | Group Discussions and Outing | |
| 7:30-8:45 | Breakfast | |
| 9:00 | Quick Sync-up | Margo |
| 9:15 | Discussion Groups Meet | Groups |
| 10:45 | Break | |
| 11:15 | Discussion Group Reports | Group Leads |
| 12:15 | Lunch | |
| 2:00 | Field Trip: Völklinger Hütte | |
| 6:00 | Dinner | |
| 8:00 | Gong Show and Cheese Plates in the Wine Cellar: Beyond Databases and Hardware | All |

| Time | Topic | Speakers |
|-----------------|---|----------|
| Thursday | Consolidation | |
| 7:30-8:45 | Breakfast | |
| 9:00 | Quick Sync-up | Carsten |
| 9:15 | Discussion Groups Meet | Groups |
| 10:15 | Break | |
| 10:30 | Discussion Groups Meet/Write | Groups |
| 11:30 | More on Cloud Databases | David B |
| 12:15 | Lunch | |
| 2:00 | Group Discussion or More Group Work (Vote!) | All |
| 3:00 | Break (Kaffee und Kuchen available) | |
| 3:30 | Paper writing in groups | Groups |
| 4:30 | Building Your Three-legged Stool | Margo |
| 5:00 | An Accidental Academic: My Story and Lessons Learned From the First 50 Years of My Career | Dave P |
| 5:30 | Personal Time | |
| 6:00 | Depart for External Dinner at Restaurant Kunz | |

| Time | Topic | Speakers |
|---------------|---|-----------------|
| Friday | Wrap-up | |
| 7:30-8:45 | Breakfast | |
| 9:00 | Group Paper Writing and Wrap-up | Groups |
| 10:00 | Group Report | Group Leads |
| 11:15 | Conclusion | All |
| 12:15 | Lunch | |
| 12:45 | Free shared cabs to Türkismühle train station | |
| 1:45 | Free shared cabs to Türkismühle train station | |