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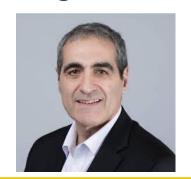
Outcomes of Dagstuhl Seminar 24462:

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Research Infrastructures and Tools for Collaborative Networked Systems Research

Georg Carle, Serge Fdida, Kate Keahey, Henning Schulzrinne











Dagstuhl

Schloss Dagstuhl

- Founded in 1990, retreat for computer science researchers
- https://www.dagstuhl.de/

Seminar program

- Seminars focus on exchange and development of ideas, participation by invitation, establishing trust and friendship
- Often praised by participants as most productive academic events they have experienced
- https://www.dagstuhl.de/en/seminars/dagstuhl-seminars





Conclusions

A. Strategic Investment & Community Engagement

- Research infrastructures represent a vital and long-term investment
- Active participation from research communities
- Sustained human capital development
- Financial sustainability

B. Open Access & Data Sharing

- Open access to shared physical infrastructure is essential
- Access to open research data is equally critical
- Digital sharing of scientific results accelerates innovation, enhances reproducibility
- Metaservices strengthen FAIR (Findable, Accessible, Interoperable, and Reusable) data sharing

C. Amplified Impact & Network Effects

- Research infrastructures inherently complement and amplify each other
- creating a synergistic network effect (Metcalfe's Law: value of a network grows with square of number of participants)
- Interconnection fosters rigorous scientific approach and methodology
- Strengthening of collaboration and knowledge advancement.



Recommendations

- 1. Define Clear **Scientific Objectives**
- 2. Foster a Strong Scientific Community
- 3. Implement **EasyFAIR** Principles (Findability, **A**ccessibility, **I**nteroperability, and **R**eusability)
- 4. Enhance Reproducibility
- 5. Multi-year investment strategy
- 6. Establish Common Abstractions
- 7. Improve Findability and Accessibility
- 8. Define Standardized Evaluation Criteria
- 9. Optimize User Experience
- 10. Ensure Interoperability and Openness
- 11. Promote Flexibility and Adaptability
- 12. Support Sustainable Development Goals (SDGs)



Dagstuhl Report & The Networking Channel

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The Networking Channel

- Summary of the Dagstuhl Seminar "Research Infrastructures and Tools for Collaborative Networked Systems Research"
- Wed, 19th of February 2025, Time: 5 pm CET / 8am PST / 11am EST / 1am JST
- Speakers / Organisers: Georg Carle, Serge Fdida, Kate Keahey, Henning Schulzrinne
- https://www.networkingchannel.eu
- Archived video: https://www.youtube.com/watch?v=bUoNPBQ1xd0







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