



Project MGK Integrated Research Training Group Prof. Dr. Dr. Wolfgang Rhode

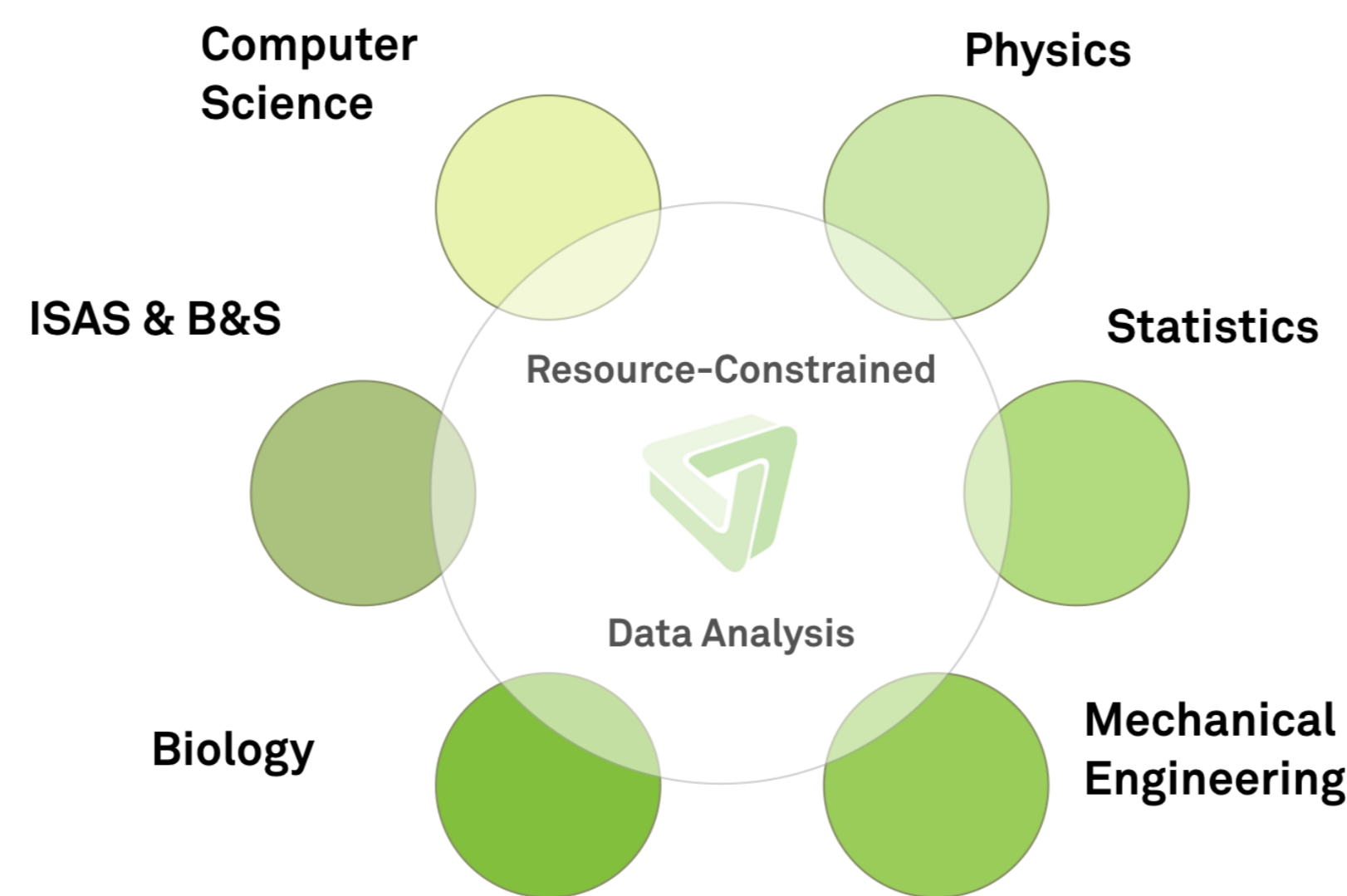
Goals

Integrated Research Training Group

Teaching the rules of good, scientific work

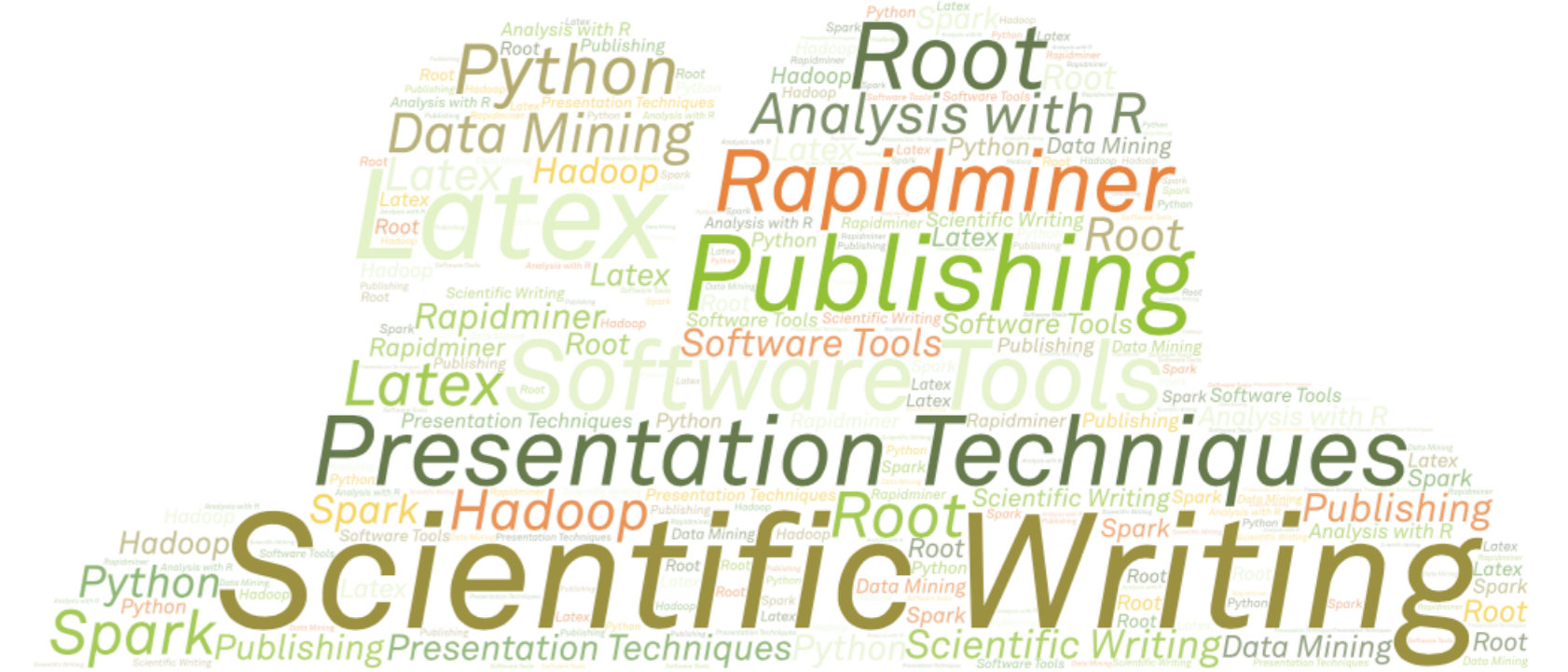
- ▶ Knowledge transfer between the disciplines
- ▶ Promotion of junior researchers in the international academic environment
- ▶ Networking of doctoral candidates
- ▶ Enhancing visibility in the international research community

Interdisciplinarity & Exchange

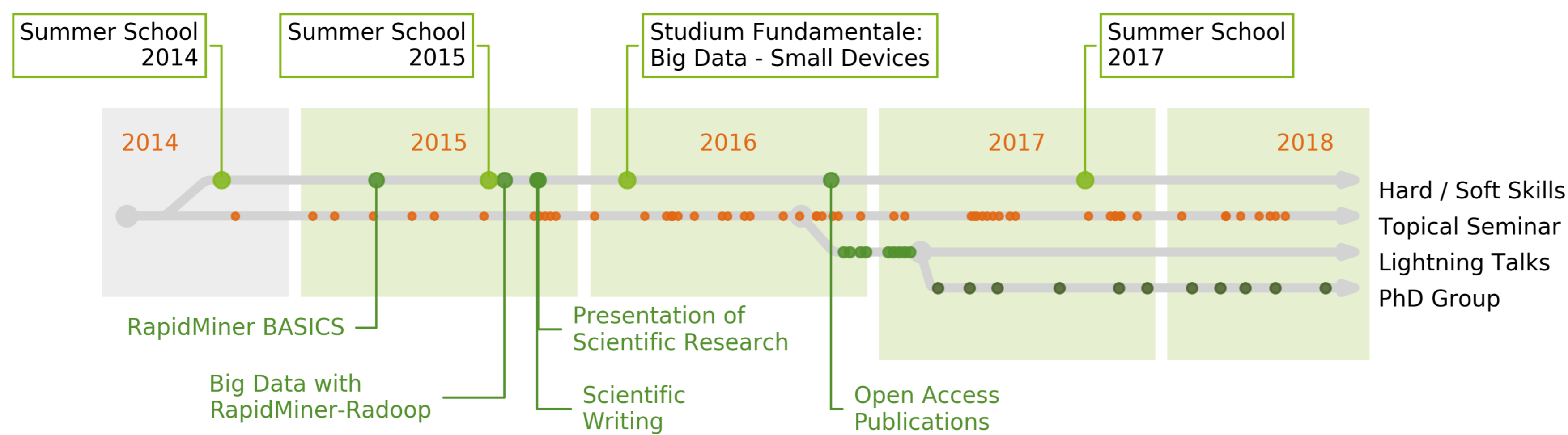


Hard Skills / Soft Skills

- ▶ Foundation for successful research
- ▶ Capability of using relevant (software) tools
- ▶ Improving students' communication and cooperation skills



Activities of the CRC 876



Studium Fundamentale: Big Data - Small Devices

- ▶ Insights into the work of CRC 876
- ▶ Students of all disciplines with interested in Big Data or distributed data analysis.
- ▶ Reference to different scenarios outside computer science

Main Topics:

Big Data, Cyber-Physical Systems, Industry 4.0

Lightning Talks

- ▶ Encourage (scientific) exchange of RTG members
- ▶ Reflect the diversity of research fields
- ▶ Collect needs of doctoral candidates

Approach:

- ▶ Weekly "blind date lightning talk" meetings
- ▶ Randomly select five students each week
- ▶ Exchange research: **One-minute lightning talks**
- ▶ Graduates' speakers lead the discussion

Achievements:

- ▶ (Continuous) contact of students at different stages
- ▶ Feedback about RTG and work in CRC
- ▶ Suggestions for additional support of students

PhD Students Group

Approach:

- ▶ Fixed collaboration group
- ▶ Monthly meetings: Time limit of 60 - 90 min.
- ▶ Continuous and more intensive exchange.

Contents and Activities:

- ▶ Reports (e.g. short presentations on specific topics)
- ▶ Review of own progress (e.g. paper, dissertation, software)
- ▶ Dedicated topics of Self-development: e.g. time management, situation analysis, publication strategies.
- ▶ Adress of topics where help is needed and mutual training among group members.

Summerschools

- ▶ International networking of doctoral students
- ▶ Specialized knowledge transfer directly from renowned scientists

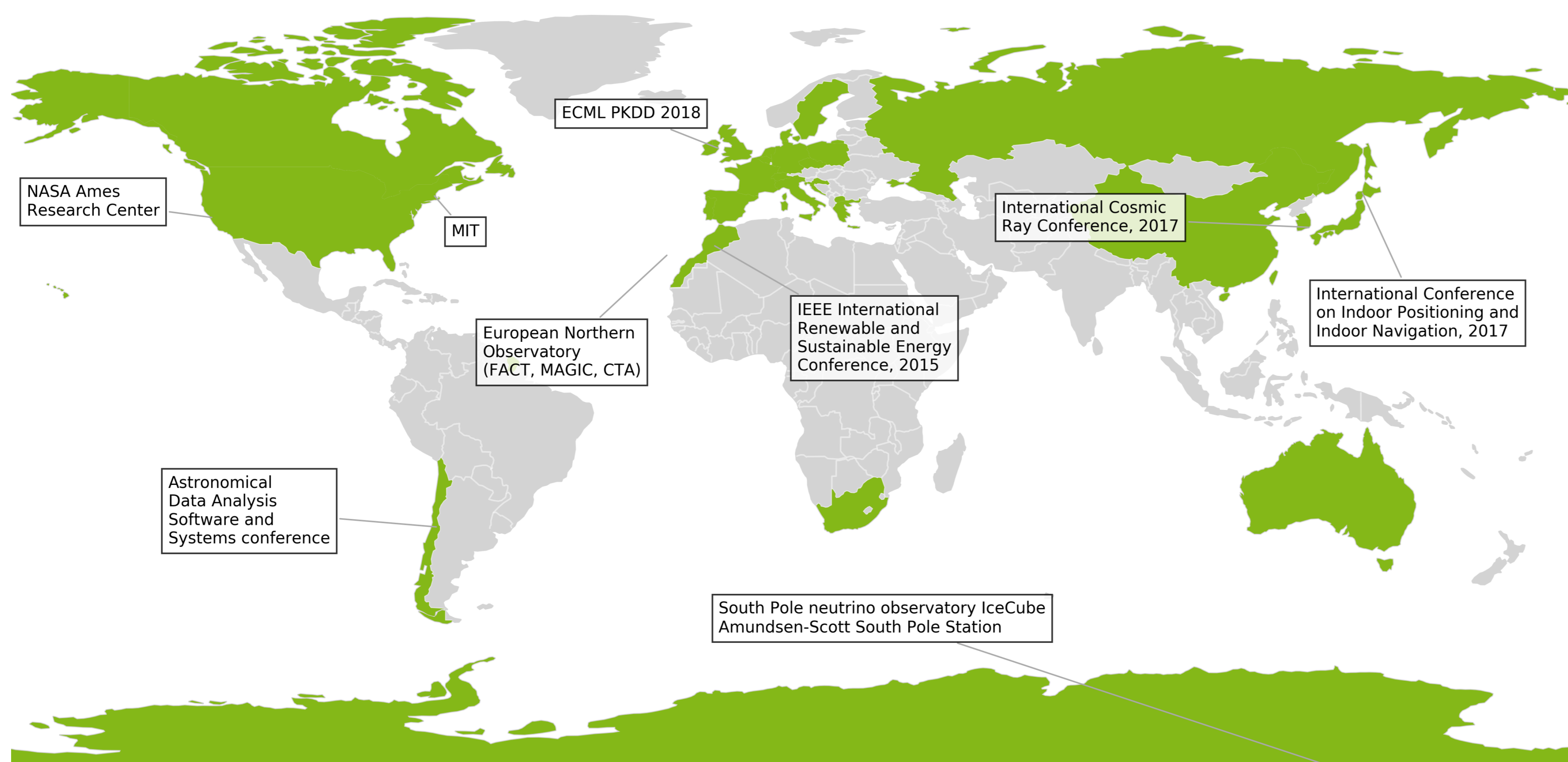
Summerschool 2015: Porto (Coorganized)
Collocated with ECML PKDD 2015

Summerschool 2017: Dortmund

Ultra Low Power Learning:
Hackathon combining ML and CPS knowledge



Visibility in International Research



Awards

- ▶ Best Paper Award, IEEE RTCSA 2015
- ▶ Best Paper Award, ECML-PKDD 2015
- ▶ ABB-award 2016
- ▶ ITG Dissertation Award 2016
- ▶ Outstanding Paper Award, IEEE RTSS symposium 2016
- ▶ Best Contribution Award, OMNeT++ 2017
- ▶ Best Paper Award, BTW 2017
- ▶ Best Paper Award, IPIN 2017
- ▶ Best Paper Award, WABI 2017
- ▶ Best Student Paper Award, BTW 2017
- ▶ Hans-Uhde Award 2017
- ▶ Best Paper Award, BIOSIGNALS 2018
- ▶ Best Student Paper Award, IEEE VTC-Spring 2018
- ▶ William C. Carter Award 2018

Activities & Achievements