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|                    | <u>Monday 13 October</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Moderator</b>   | <i>Pietro Ferrara</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>9:00-10:00</u>  | <b>Welcome</b><br><b>Presentations:</b> each participant has 2 minutes and 1 slide to introduce themselves                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>10:00-10:30</u> | Coffe break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <u>10:30-12:00</u> | <b>Invited Talk</b><br>TBA (45min)<br>Author: Patrick Cousot<br><b>Discussion Groups on Open Scientific Problems (Part I)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>12:00-14:00</u> | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>14:00-15:30</u> | <b>Invited Talk</b><br>Static Analysis in the Cloud-Native Era (45min)<br>Davide Taibi<br><b>Discussion Groups on Open Scientific Problems (Part II)</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <u>15:30-16:00</u> | Cake break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>16:00-17:30</u> | <b>Scientific Computing, Data Science, Machine Learning</b><br>- Cost of Soundness in Mixed-Precision Tuning (30min)<br>Authors: Anastasia Isychev, Debasmita Lohar<br>- Pyra: A High-level Linter for Data Science Software Code Smells (15min)<br>Authors: Greta Dolcetti<br>- Formally Checking the Stability of (Small) Decision Tree Models with Intervals (15min)<br>Authors: Antoine Miné, Waly Fall<br>- RubberDuckBench: A Benchmark for Evaluating AI Pair Programmers (30min)<br>Authors: Elizabeth Dinella, Ferida Mohammed, Fatma Ayad, Satish Chandra, Petros Maniatis |
| <u>18:00-20:00</u> | Dinner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                    | <u>Tuesday 14 October</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Moderator</b>   | <i>Caterina Urban</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>9:00-10:00</u>  | <b>Report on Discussion Groups (30min)</b><br><b>Plenary Discussion</b> to Organize Discussion Groups (30min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>10:00-10:30</u> | Coffe break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <u>10:30-12:15</u> | <b>Medley</b><br>- Formally Verifying Solana Protocols with the Certora Prover (demo, 30min)<br>Authors: Arie Gurfinkel, Jorge Navas<br>- A journey through LiSA and its frontends (30min)<br>Authors: Vincenzo Arceri<br>- Scaling up Roundoff Analysis of Functional Data Structure Programs (30min)<br>Authors: Anastasia Isychev, Eva Darulova<br>- Syntactically Convex Model-Based Projection for LRA (15min)<br>Authors: Anna Becchi                                                                                                                                          |
| <u>12:15-14:00</u> | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>14:00-15:30</u> | <b>Security</b><br>- Static Program Analysis across Trust Boundaries (30min)<br>Authors: Naïm Moussaoui Remil, Urban Caterina<br>- Security Analysis at Scale with the Sigma Engine (30min, including demo)<br>Authors: Isabel Garcia-Contreras<br>- Securing Software Supply Chains with Security-Enhanced SBOMs (30min)<br>Authors: Eric Cornelissen, Musard Balliu                                                                                                                                                                                                                |
| <u>15:30-16:00</u> | Cake break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>16:00-17:30</u> | <b>Discussion Groups</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <u>18:00-20:00</u> | Dinner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                    | <u>Wednesday 15 October</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Moderator</b>   | <i>Liana Hadarean</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                    | <b>Static Analysis and Verification I</b><br>- Distributed Summary Synthesis: A Divide-and-Conquer Approach for Distributed Program Analysis (30min)<br>Authors: Dirk Beyer, Matthias Kettl, Thomas Lemberger<br>- Static Analysis and Verification in The Ciao Playground (20-30min, including demo)<br>Authors: Manuel Hermenegildo, José Francisco Morales, Pedro López, Daniel Jurjo, Daniela Ferreiro                                                                                        |
| <u>9:00-10:00</u>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u>10:00-10:30</u> | Coffe break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                    | <b>Speed Dating:</b> Participants are divided in 2 groups (theory vs. practice).<br>5 sessions, 10 minutes each, with a topic to discuss with a random participant belonging to the other group<br>(suggestion for the topic: failed, failing, stuck research projects)                                                                                                                                                                                                                           |
| <u>10:30-12:00</u> | <b>Report on Speed Dating (30min)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <u>12:00-14:00</u> | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <u>14:00-15:30</u> | Social activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u>15:30-16:00</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u>16:00-17:30</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u>18:00-20:00</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                    | <u>Thursday 16 October</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Moderator</b>   | <i>Jorge Navas</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                    | <b>Report on Tuesday's Discussion Groups (30min)</b><br><b>Plenary Discussion</b> to Organize Discussion Groups (30min)                                                                                                                                                                                                                                                                                                                                                                           |
| <u>9:00-10:00</u>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u>10:00-10:30</u> | Coffe break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                    | <b>Static Analysis and Verification II</b><br>- Developing Cost-Effective Combination of Static Analysis Techniques (20min)<br>Authors: Minseok Jeon<br>- Try-Mopsa: Relational Static Analysis in Your Pocket (demo, 20min)<br>Authors: Raphaël Monat<br>- Perspectives on the Static Analysis of Synchronous Data-Flow Languages (15 min)<br>Authors: Charles De Haro, Xavier Rival<br>- Tai-e: Sound Static Analysis Framework for Modern Software Engineering (30-40min)<br>Authors: Tian Tan |
| <u>10:30-12:15</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u>12:15-14:00</u> | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                    | <b>Multithreaded, Concurrent, and Distributed Systems</b><br>- Towards Interactive Abstract Interpretation for Multithreaded Programs (30min)<br>Authors: Michael Schwarz, Helmut Seidl<br>- Shape Analysis by Abstract Interpretation of Non-Blocking Concurrent Programs (30min)<br>Authors: Valentin Barbazo, Xavier Rival<br>- VeriFx: Correct Replicated Data Types for the Masses (30min)<br>Authors: Elisa Gonzalez Boix, Kevin De Porre, Carla Ferreira                                   |
| <u>14:00-15:30</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u>15:30-16:00</u> | Cake break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u>16:00-17:30</u> | <b>Discussion Groups</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <u>18:00-20:00</u> | Dinner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                    | <u>Friday 17 October</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Moderator</b>   | <i>Liana Hadarean</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                    | <b>Report on Thursday's Discussion Groups (30min)</b><br><b>Pointers I</b><br>- Optional Type Systems: Current Approaches and Ongoing Efforts (30min)<br>Authors: Werner Dietl                                                                                                                                                                                                                                                                                                                    |
| <u>9:00-10:00</u>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u>10:00-10:30</u> | Coffe break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                    | <b>Pointers II</b><br>- Path-optimal Symbolic Execution and Combinations with Search-based Dynamic Analysis [Part I] (15min)<br>Authors: Giovanni Denaro, Pietro Braione, Luca Guglielmo<br><b>True and False Alarms</b><br>- Path-optimal Symbolic Execution and Combinations with Search-based Dynamic Analysis [Part II] (15min)<br>Authors: Giovanni Denaro, Pietro Braione, Luca Guglielmo<br>- From Detection to Quantification: A New Era of Declarative Program Analysis (30min)<br>Authors: Jingbo Wang<br>- Directed Program Analysis: from Suspicion to Witnesses (30min)<br>Authors: Kihong Heo |
| <u>10:30-12:00</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <u>12:00-14:00</u> | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <u>14:00-15:30</u> | Departure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <u>15:30-16:00</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <u>16:00-17:30</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <u>18:00-20:00</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |