

- Current evolution of technology
 - More transistors, multi-cores, heterogeneous systems, more parallelism
- System complexity
 - Understanding, analysis, evaluation
 - Programming issues

(6h - Daniel Gracia)

- Program optimizations
 - Compilation and architecture specific optimizations
 - Polyhedral optimizations

(6h - Anna Beletska)

- Toward self-tuning adaptive systems
 - Iterative feedback-directed compilation
 - Dynamic compilation and run-time adaptation
 - Machine learning (optimization knowledge reuse)

(6h - Grigori Fursin)

- Other potential future directions
 - End of the "Moore law" (CMOS technology)
 - Reversible computing: energy and computation
 - New spatial parallel programming paradigm

(6h – Christine Eisenbeis, Daniel Gracia, Frederic Gruau)

