The Ubiquity of Digital Audio Processing

FEEVER: Faust Environment Everyware.

*Design, implementation* and *validation* of innovative technologies for everywhere seamless *audio processing*:
- Portability;
- Programmability;
- Ease of deployment;
- Efficiency;
- Security.

**Faust**, the audio *programming language*:
- Audio end user-focused;
- Compiled vs. interpreted;
- Specifying DSP at a high level;
- Functional and text-oriented;
- Adaptable to many audio architectures.
Ambitious R&D goals for a comprehensive solution to audio processing, distribution and playback on all platforms (internet, mobile devices, specialized hardware...):

• **Theory** (formal semantics, proofs);
• **Compiler** optimizations;
• Extension of **audio architectures**;
• **Education** content.

**FEEVER team:**

• MINES ParisTech (lead, Paris);
• GRAME-CNCM (Lyon);
• CIEREC (St-Etienne);
• IRISA (Rennes).