

PROGRAM

Monday 25th March 2024 - Day 1

Centre de congrès du World Trade Center
5 - 7 place Robert Schuman
38000 Grenoble

10h15 - 11h00 *Accueil café*

11h00 - 13h00

Inauguration

Prises de parole institutionnelles

Présentation du PEPR IA par les pilotes du programme

Prise de parole ministérielle

13h00 - 14h30 *Déjeuner*

Embedded AI

14h30 - 15h30

**Keynote - Toward energy-efficient and trustworthy embedded AI:
The in-memory computing approach**

Damien Querlioz, senior researcher, CNRS

15h30 - 16h00

EMERGENCES - Near-physics emerging models for embedded AI

Marina Reyboz, senior researcher, CEA
Gilles Sassatelli, senior researcher, CNRS

16h00 - 16h30 *Coffee-break*

16h30 - 17h00

ADAPTING - Adaptive architectures for embedded AI

Alberto Bosio, professor, Ecole Centrale de Lyon
Ivan Miro Panades, senior researcher, CEA

17h00 - 17h30

**HOLIGRAIL - HOLIstic approaches to GREener model Architectures for
Inference and Learning**

Olivier Sentieys, professor, Université de Rennes, Inria
Olivier Bichler, senior researcher, CEA

17h30 - 18h30

Roundtable

Host: François Terrier, senior researcher, CEA, program director of PEPR IA

DeepGreen - Fabrice Rastello, senior researcher, Inria
Dolphin - Vincent Huard, senior executive director and chief technology officer
MIAI - Frédéric Petrot, professor, INPG
PEPR Cloud - Adrien Lebre, professor, IMT Atlantique, Inria
Thales - Nicolas Ventroux, head of high performance computing laboratory

18h45

Cocktail reception

PROGRAM

Tuesday 26th March 2024 - Day 2

Centre de congrès du World Trade Center
5 - 7 place Robert Schuman
38000 Grenoble

8h00 - 8h30 *Welcome coffee*

Trustworthy AI

8h30 - 9h00 **REDEEM - Resilient, Decentralized and Privacy-Preserving Machine Learning**
Cédric Gouy-Pailler, senior researcher, CEA
Sonia Ben-Mokhtar, senior researcher, CNRS

9h00 - 9h30 **FOUNDRY - FOUNDations of Robustness and reliabilitY in AI**
Panayotis Mertikopoulos, senior researcher, CNRS

9h30 - 10h00 **SAIF - Safe AI through Formal Methods**
Caterina Urban, researcher, Inria
Zakaria Chihani, senior researcher, CEA

10h00 - 10h30 *Coffee break*

10h30 - 11h30 **Roundtable**
Host: Marc Schoenauer, senior researcher, Inria, program director of PEPR IA
Renault - Rodolphe Gelin, expert deep learning and robotics
Safran Tech - Daniel Duclos, expert emeritus Image processing and algorithms
P-16 - Gaël Varoquaux, senior researcher, Inria
DATAIA - Frédéric Chazal, senior researcher, Inria
ANITI - Romaric Redon, operational director, Université de Toulouse

11h30 - 12h30 **Keynote - Physical models and machine learning for scientific imaging**
Julien Mairal, senior researcher, Inria

12h30 - 14h00 *Lunch*

Foundations and new trends in AI

14h00 - 14h30 **CAUSALI-T-AI - Causality teams up with AI**
Marianne Clausel, professor, Université de Lorraine, CNRS

14h30 - 15h00 **SHARP - Sharp Theoretical and Algorithmic Principles for frugal Machine Learning**
Rémi Gribonval, senior researcher, Inria

15h00 - 15h30 **PDE-AI - Numerical analysis, optimal control and optimal transport for AI**
Antonin Chambolle, senior researcher, CNRS

15h30 - 16h30 **Roundtable**
Host: Jamal Atif, professor, Université Paris-Dauphine - PSL, program director of PEPR IA, CNRS
PRAIRIE - Isabelle Ryl, professor, Université Paris Sciences & Lettres
SCAI - Gérard Biau, professor, Sorbonne Université
KYUTAI - Patrick Perez, chief executive officer
HII!Paris - Éric Moulines, professor, École Polytechnique de Paris

16h30 - 16h45 **Concluding remarks**
Guillaume Avrin, national coordinator for artificial intelligence, DGE