



## Evening of 4th of June 2018– Planning

17h00-18h00: Welcome of the participants

18h00-18h30: Welcome / Introduction Speeches

- Pierre Paul Zalio, President of ENS Paris-Saclay
- Stefan Kern, Head of Division, German Embassy in Paris
- Philippe Mareine, Atos Executive Management
- Harald Kosch, The French-German Summer School Series
- Mathilde Mougeot and Nicolas Vayatis, Introduction to “Transfer Learning”

18h30-19h15: Round Table

### «Artificial Intelligence for higher education and research »

Pilotes : Harald Kosch, Nicolas Vayatis

- Gilles Bloch, President of Paris Saclay University
- Georges Hébrail, Senior researcher at EDF Lab Saclay
- Stefan Kern, Head of Division, German Embassy in Paris
- Jochen Hellmann, Secretary-General of the French-German University
- Sylvie Retailleau, President of Paris Sud University
- Pierre-Paul Zalio, President of ENS Paris-Saclay

19h15-20h00: Round Table

### « Artificial Intelligence for the industry »

Pilotes : Frédéric Oblé, Mathilde Mougeot

- David De Almeida, SNCF, Direction Systeme & Techno Ferroviaire
- Alexandra Dublanche, Vice President for Economic Development, Agriculture and Rural affairs
- Pierre Leca, Scientific advisor, CEA (to be confirmed)
- Patrice Hauret, Pre-Development Europe Manager, Michelin
- Philippe Mareine, Atos Executive Management
- Ulli Waltinger, Head of Siemens AI lab, Siemens
- Elie Znaty, Scientific director, Bertin IT

**Conclusion** - Hubert Tardieu, Atos CEO Advisor

20h00-20h15: Speech by Cédric Villani (to be confirmed)

20h20 - Dinner

Ecole Normale Supérieure Paris-Saclay, 61 avenue du Président Wilson, 94235 Cachan

« **French-German Summer School on Transfer Learning:  
from Theory to Applications** »  
**JUNE 4-6th 2018 - ENS Paris-Saclay, Cachan, France**

**Monday evening - JUNE 4th**

Come together at 18:00 and Dinner

**Amphithéâtre Marie Curie**

Welcome speeches & two round tables. "Artificial Intelligence for the industry" and "Artificial Intelligence for higher education and research" with

- **Pierre-Paul Zalio**, President of the ENS Paris-Saclay
- **Stefan Kern**, Head of Division, German Embassy in Paris
- **Anne Seitz**, Division Science and Technology, German Embassy in Paris
- **Hubert Tardieu**, Atos CEO Advisor
- **Philippe Mareine**, Atos Executive management
- **Jochen Hellmann**, Secretary-General of the French-German University
- **Patrice Hauret**, Pre-Development Europe Manager, Michelin
- **Alexandra Dublanche**, Vice-President for Economic Development, Agriculture and Rural affairs

*Invited speaker (to be confirmed):*

- **Cédric Villani**, Fields Medal 2010

**Tuesday morning – JUNE 5th**

**Amphithéâtre Marie Curie**

Time	Content
9:00 (15')	Welcome Session / Practical Information
9:15 (60')	Pr. Massimiliano Pontil (Istituto Italiano di Tecnologia & University College London). Keynote Speaker <i>Incremental learning-to-learn with statistical guarantees.</i>
10:15 (30')	Pr. Elisa Fromont (INRIA Rennes). Scientific Talk <i>Domain adaptation in deep learning: recent advances and a concrete use case.</i>
10:45 (30')	Coffee break – Poster Session
11:15 (30')	Pr. Gianluca Bontempi (Université libre de Bruxelles). Scientific Talk <i>Multi-task learning and forecasting.</i>
11:45 (30')	Johannes Jurgovsky (Passau Univ.). <i>Credit card fraud detection with collaborative filtering.</i> Yvan Lucas (INSA Lyon). <i>Multiple perspectives HMM-based feature engineering for credit card fraud detection.</i>
12:15 (15')	Pr. Véronique Maume-Deschamps (AMIES : the french agency for math-industry relationships). <i>National and european issues.</i>
12:30 - 14:00	Lunch break

## Tuesday afternoon – JUNE 5th

## Amphithéâtre Marie Curie

14:00 (60')	Dr. Hervé Le Borgne (CEA). Keynote Speaker <i>On the universality of CNN-based representations.</i>
15:00 (30')	Bertin IT. <i>AI for speech processing.</i>
15:30 (30')	Ilja Kuzborskij (Milan Univ.). <i>On the generalization ability of hypothesis transfer learning.</i> Thomas Wollmann (Heidelberg Univ.). <i>Transfer learning for microscopy image analysis.</i>
16:00 (30')	Coffee break – Poster Session
16:30 (60')	Ulli Waltinger (Siemens). <i>The Siemens AI Lab. Artificial intelligence and deep learning research: trends, challenges and opportunities from an industrial perspective.</i>
17:30 (30')	Pr. Michael Granitzer (Passau Univ.). Scientific Talk <i>Learning from networks and graphs.</i>
18h00 (60')	Poster Session
19:00	Dinner

## Wednesday – JUNE 6th

## Amphithéâtre Marie Curie

Time	Content
8:15 (15')	Welcome Session / Practical Information
8:30 (60')	Pr. Björn Schuller (Augsburg Univ.). Keynote Speaker <i>Deep transfer learning: what image nets know about audio, the universum, and sharing for the better sake.</i>
09:30 (30')	Dr. Rémi Emonet (Saint-Etienne Univ.). <i>Domain adaptation and multi-view learning: using subspace alignment and landmark projections.</i>
10:00 (30')	Ludovic Minvielle, Mounir Attiq (ENS Paris-Saclay). <i>Transfer learning to detect falls.</i> Tiago Santos (Graz Univ.). <i>Understanding wafer patterns in semiconductor production with variational auto-encoders.</i>
10:30 (30')	Coffee break – Poster Session
11:00 (30')	Dr. Argyris Kalogeratos (ENS Paris-Saclay). Scientific Talk <i>Adaptive strategies in a multi-round selection setting.</i>
11:30 (45')	Karim Aderghal (Bordeaux Univ.). <i>Classification of Alzheimer disease on imaging modalities with deep CNNs using cross-modal transfer learning.</i> Théo Saillant (ENS Paris-Saclay). <i>Application opportunities of machine learning for HPC.</i> Yacine Kessaci (Worldline). <i>Data Traceability Platform for making Research with industrial Partners.</i>
12:15 13:45	Lunch break
13:45 (60')	Pr. Pierre Alquier (ENSAE). Keynote Speaker <i>Regret bounds for lifelong learning.</i>
14:45 (30')	Ulli Haering, Mathieu Garchery (Atos/Worldline). Scientific Talks <i>Real-world intrusion detection in audit data: gaining insights from a transfer learning perspective.</i>
15:15 (30')	Dr. Sergio Peignier (ENS Paris-Saclay). Scientific Talk <i>The biological way of transfer.</i>
15:30	Poster Prize / Conclusion / Coffee

*This workshop is organized within the framework of the "Industrial Data Analytics and Machine Learning" Chair (Atos Integration, CEA, ENS Paris-Saclay)*

**Scientific Committee:**

Nicolas Vayatis, Director of the CMLA research center, ENS Paris-Saclay, France  
Mathilde Mougeot, Professor, ENSIEE, France  
Frédéric Oblé, R&D, Atos, Wordline Global  
Harald Kosch, Professor, University of Passau, Germany

**Staff:**

Véronique Almadovar, CMLA, ENS Paris-Saclay, CNRS, France  
Alina Müller, CMLA, ENS Paris-Saclay, CNRS, France