CHANGJIAN SHUI

PLT-1102J ⋄ Université Laval, G1V 0A6, Canada
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EDUCATION

Université Laval, Quebec, Canada *2017.05 –*
Phd. in Electric engineering 4.2/4.33
Supervisor: Christian Gagné

ENS Cachan, Cachan, France *2015.09-2016.10*
Master, Applied Math
Program: MVA Mathematics, Vision, Learning cum laude, 14.75/20

Telecom ParisTech, Paris, France *2013.09-2015.07*
Engineering, Signal/Image Processing

RESEARCH

I am interested in the algorithmic and theoretical aspects in the Transfer machine learning (domain adaptation, active learning, multi-task learning).

SELECTIVE PUBLICATIONS (AS FIRST AUTHOR)

1. *Deep Active Learning: Unified and Principled Method for Query and Training.* **Changjian Shui**, Fan Zhou, Christian Gagné, Boyu Wang. AISTATS, 2020.
2. *A Principled Approach for Learning Task Similarity in Multitask Learning.* **Changjian Shui**, Mahdieh Abbasi, Louis-Émile Robitaille, Boyu Wang, Christian Gagné. IJCAI, 2019 (acceptance rate: 17.9%)

ALL PUBLICATIONS (REPORT AND INVOLVING)

1. *Toward Metrics for Differentiating Out-of-Distribution Sets.* Mahdieh Abbasi, **Changjian Shui**, Arezoo Rajabi, Christian Gagné, Rakesh Bobba. ECAI 2020 (acceptance rate: 26.8%)
2. *Accumulating Knowledge for Lifelong Online Learning.* **Changjian Shui**, Ihsen Hedhli, Boyu Wang, Christian Gagné. arXiv:1810.11479 (2018).
3. "Diversity regularization in deep ensembles." **Changjian Shui**, Azadeh Sadat Mozafari, Jonathan Marek, Ihsen Hedhli, Christian Gagné. arXiv:1802.07881 (2018)

TRAINING EXPERIENCE

Armines 2016.05-2016.10
Master Internship *Saint Etienne, France*

· Supervised by Dr. Johan DEBAYLE.
· Subject: *Characterization of granular media in gas-solid systems by image analysis*
· Development mathematical and numerical approach for analysis granules in chemical process and simulate the graunles via Stochastic Geometry.

Insititut Pasteur 2014.08-2015.02
Ingénieur Internship *Paris, France*

· Supervised by Prof Christophe ZIMMER.

· Subject: *Spatial-temporal deconvolution in super-resolution microscopy*
· Development of temporal models based on Markov continuous time model to improve the resolution of super-resolution microscopy.

ACADEMIC ACTIVITIES

- Conference Reviewer: ICLR 2020,2021, NeurIPS 2020
- Journal Reviewer: Machine Learning

PRIZE

- Travel Grant, IJCAI 2019

TEACHING EXPERIENCE

- TA, GIF7005 Introduction to Machine learning (2018, 2019)

TECHNICAL SKILLS

Programming Languages MATLAB, Python (PyTorch), Latex

LANGUAGES

English	Good
French	Good
Chinese	Native

Last update: July 11, 2020;