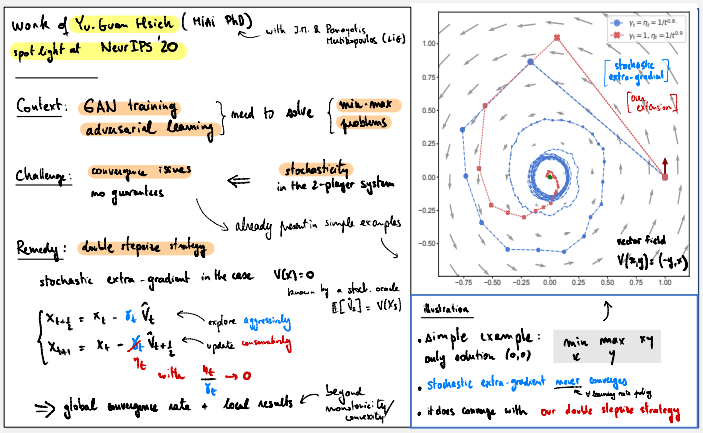
MIAI Grenoble Alpes
Multidisciplinary Institute In Artificial Intelligence

INVESTIR L'AVENIR

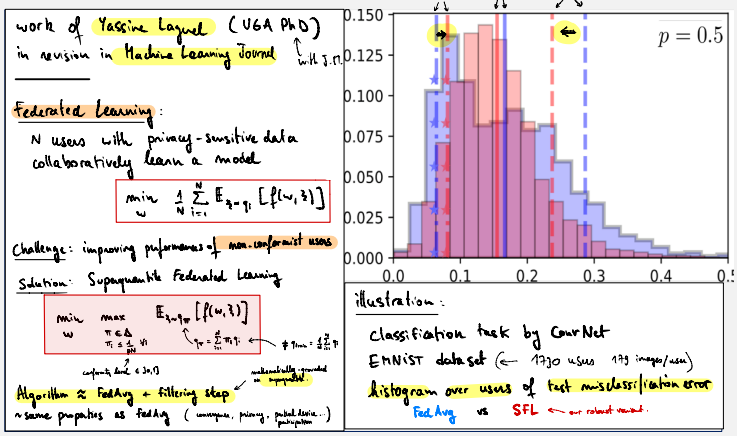
Chair: Optimization & Learning

Jérôme MALICK (jerome.malick@univ-grenoble-alpes.fr) *with a group of 4 researchers and 4 phd students*

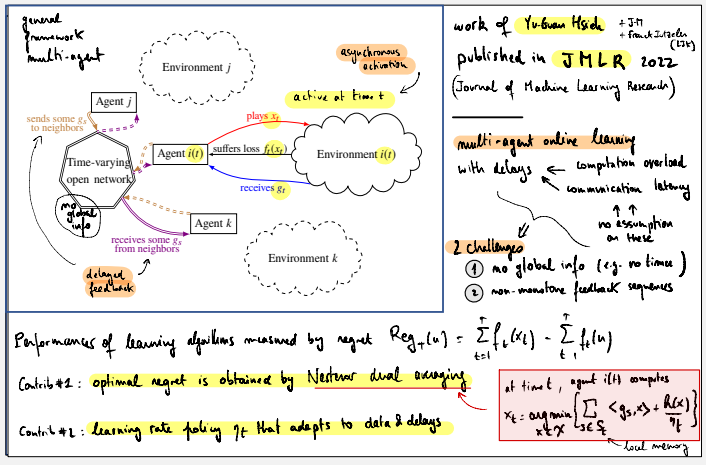
Last-iterate convergence for min-max problems: explore aggressively and update conservatively



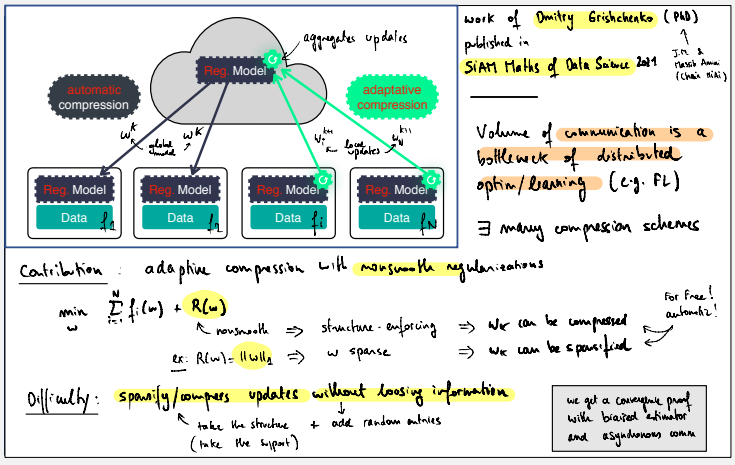
Federated Learning with Heterogeneous Users: A Superquantile/CVaR Approach



Multi-agent Online Optimization with Delays Asynchronicity and Adaptivity



Adaptive Sparsification of Communications in Distributed Optimization



Collaborations

International collaborations:

- Yurii Nesterov (Louvain-la-Neuve, Belgium)
- Zaid Harchaoui (Univ. Washington, US)

Collaborations with companies: ST Microelectronics, Criteo

with other MIAI chairs: towards more data efficiency (Julien Mairal) & ML for materials (Massih Amini) & stats by convex optimization (Anatoli Juditsky)

Publications

With at least 2 members of the chair – over the last 2 years

- NeurIPS x6 -- ICML x6
- ICLR x2 -- COLT x3
- JMLR -- MLR
- Maths of OR, Math Programming x3
- SIAM journals: optimization, matrix analysis, data science
- AiStats, CDCx2
- IEEE Trans on Signal Processing