

Artificial Intelligence with Innovative Framework (Neural Networks, Genetic Algorithms, ...)

Bachelor's – Master's Thesis

At iPAT, we have developed an innovative AI framework that we are continuously refining. It currently includes neural networks, genetic algorithms/ gen. programming, auto-ML-learning, etc. In the context of different scientific questions, we always offer the possibility to apply and extend the framework in the context of student's thesis. In most cases, accompanying simulative (e.g. DEM or CFD) or experimental investigations can be conducted. The exact focus can be individually adjusted depending on the available projects and specific wishes of the students.

Your Tasks:

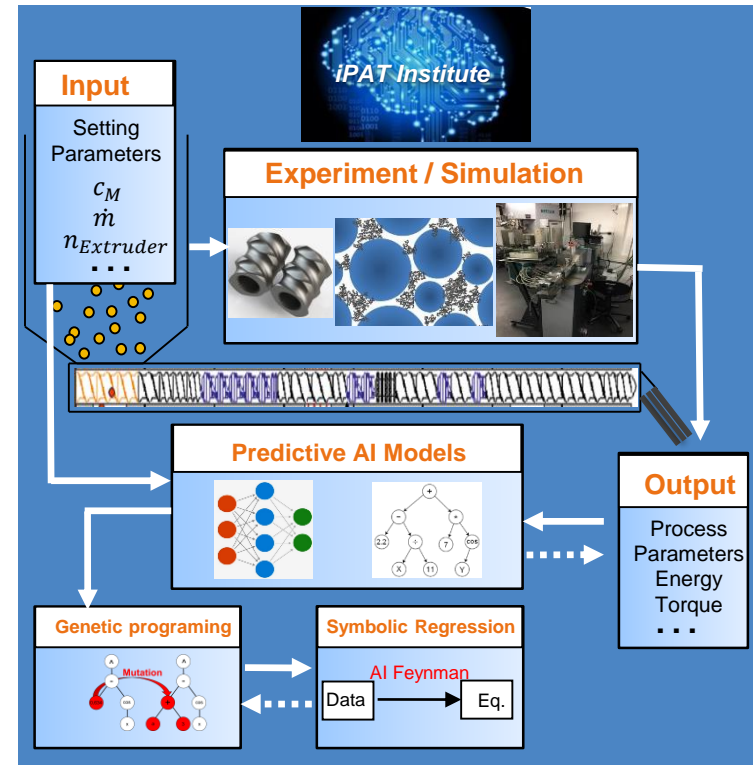
- Application/ further development of the AI framework in extrusion process
- Execution (if necessary establishment) of experiments and simulations

Methodes:

- AI (Neur. Nets, Gen Alg. /Progr...)
- Dependent on the individual case, simulations (CFD-DEM), experiments, etc.

Helpful knowledge :

- Python or other programming language



- The duration and the focus will be adjusted to the requirements of each kind of thesis.
- We can arrange a personal conversation at any time and discuss this or other topics without obligation.

Start:

Immediately, or by arrangement

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