

AI for Production Engineering: Feedback and Perspectives

Unlike its public image, Artificial Intelligence is not a monolithic technology but it brings together a wide variety of approaches and tools, which are more or less easy to implement. Starting from a personal use of the various AI tools used on different problems in production engineering (fuzzy logic in scheduling and planning, fuzzy expert systems for diagnosis, neural networks and metaheuristics for setting parameters in scheduling, performance evaluation by neural networks, multi-agent systems in scheduling, text mining and constraint propagation for meeting environmental standards, data mining for predictive maintenance...), this plenary talk will present some reflections on the choice and the use in an industrial context of the tools of this fast-growing field and will highlight some perspectives in the short and medium terms.

Biography:

Bernard Grabot Bernard Grabot is a Professor at the ENI of Tarbes (University of Toulouse), where his teaching is mainly focused on information systems and supply chains. His research activities concern the application of Artificial Intelligence Techniques to production systems and supply chains.

He is a member of IFAC and IFIP Working Groups and has been involved in several European projects (Network of Excellence, CRAFT, INTERREG, etc.) and many national projects. He has carried out expertises for various organisations (HCERES, ANR, ANRT, Regions, Pôle Aerospace Valley, etc.) and is a member of the CNU 61st section. He is Editor-in-Chief of the journal "Computers in Industry" and is a member of the editorial boards of "International Journal of Production Research".