Applications of Black-box Optimization
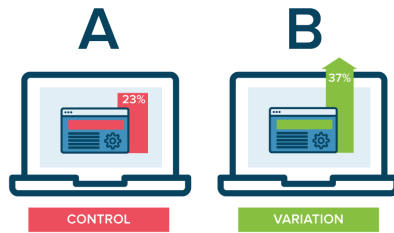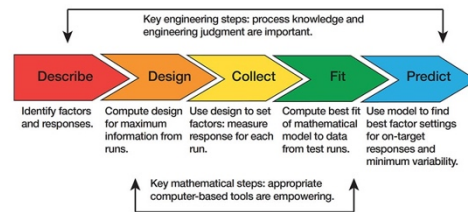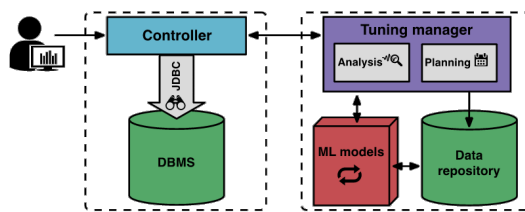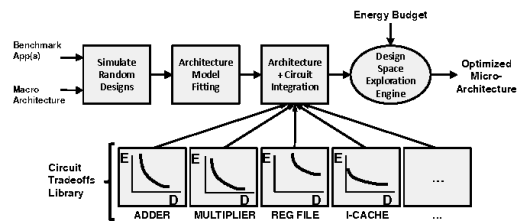

Automatic A/B Testing[1]
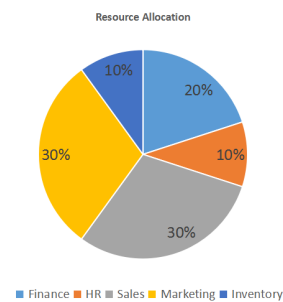

Experimental Design[2]
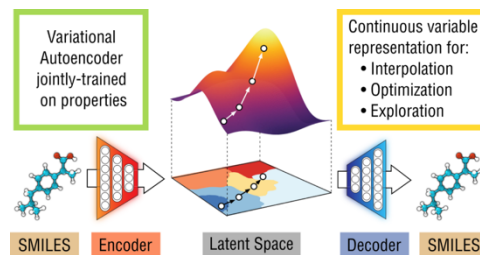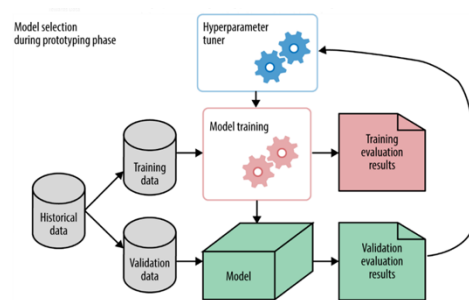

Knobs Tuning in Database[3]

Processor Architecture and Circuit Design[4]

Resource Allocation[5]

Automatic Chemical Design[6]

Automatic Hyper-parameter Tuning[7]

Source of Images:
[1] https://www.optimizely.com/optimization-glossary/ab-testing/
[2] https://www.jmp.com/en_my/articles/what-is-experimental-design.html
[3] https://aws.amazon.com/cn/blogs/machine-learning/tuning-your-dbms-automatically-with-machine-learning/
[4] https://www.semanticscholar.org/paper/Energy-performance-tradeoffs-in-processor-and-a-Azizi-Mahesri/19dec2935bcdae35946a6173f38f5bd15503bf29/figure/0
[5] https://www.accountsight.com/blog_detail/The-significance-of-effective-project-planning--resource-allocation--and-time-tracking-for-organizations/
[6] https://pubs.acs.org/doi/pdf/10.1021/acscentsci.7b00572
[7] https://www.analyticsvidhya.com/blog/2020/11/hyperparameter-tuning-using-optuna/