

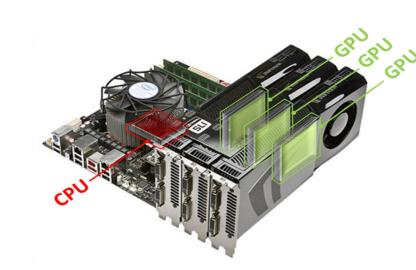
For a smart processing of Full HD images and videos on Parallel and Heterogeneous Platforms



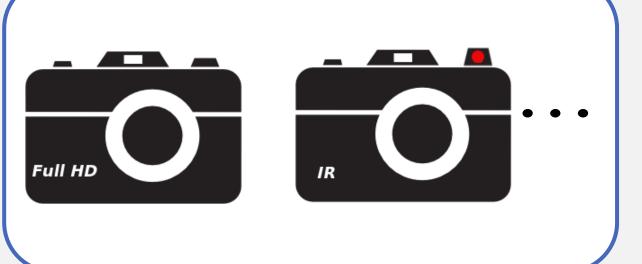




Sidi Ahmed Mahmoudi and Pierre Manneback



Input data

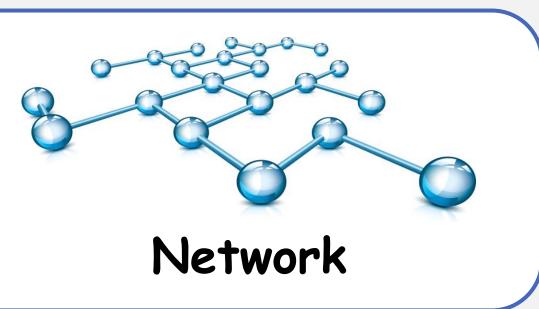


Input devices



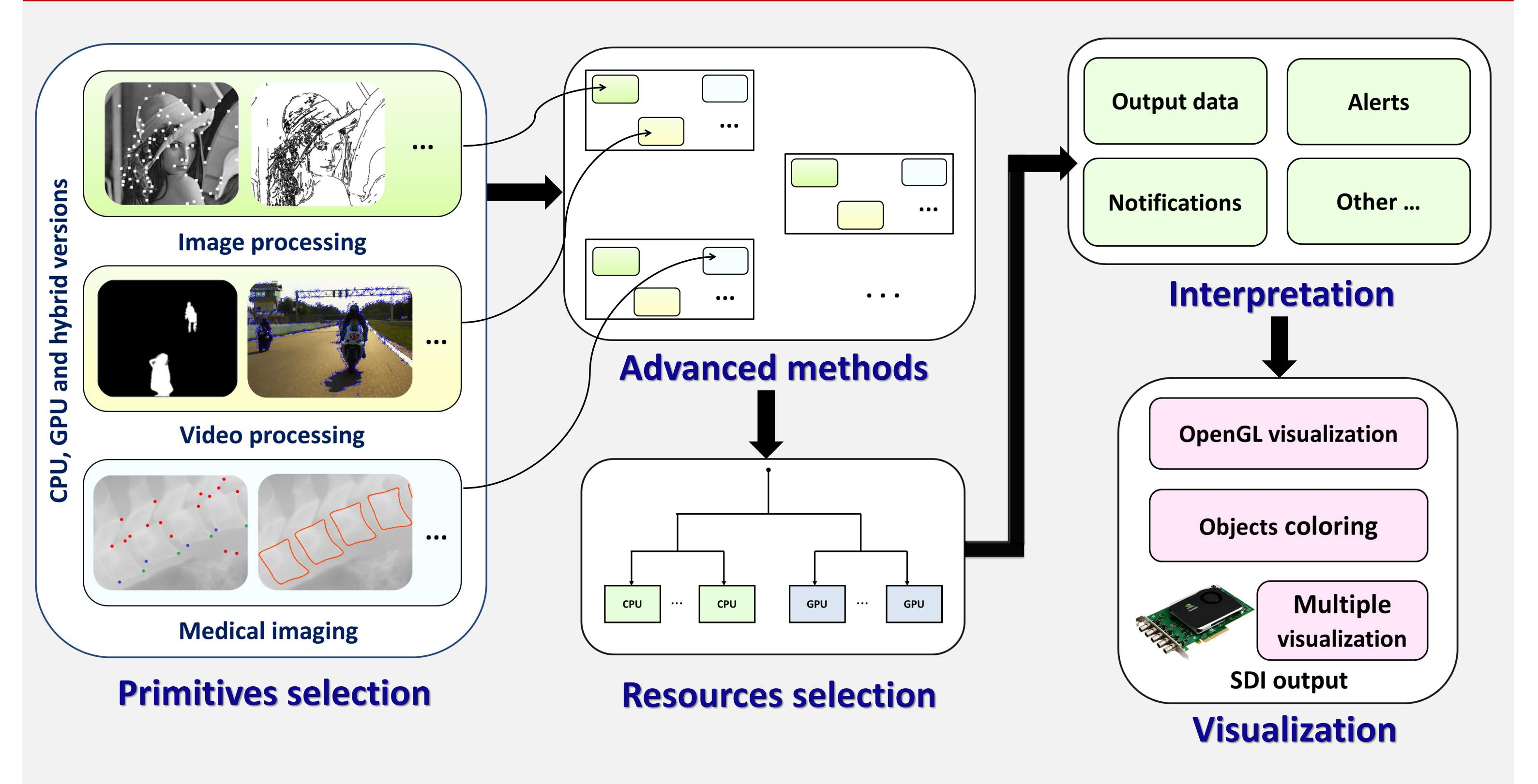






Data acquisition

Smart Processing



Given scenarios

Event detection

Fire detection

Human tracking

Videos

indexation

Vertebra

detection

Result: motion tracking



Conclusion

- CPU, GPU and Multi-CPU-GPU processing
- Smart selection of algorithms accordingly to given scenarios
- Smart selection of resources (CPU and/or GPU)
- Real time processing of Full HD/4K videos

