SCoRe Group
Scalable Computing Research

Parallel and High Performance Computing Harnessing power of thousands of CPU cores to solve efficiently problems that the world cares about

Big Data in Life Sciences Designing novel methods to unveil mysteries buried in massive DNA collections
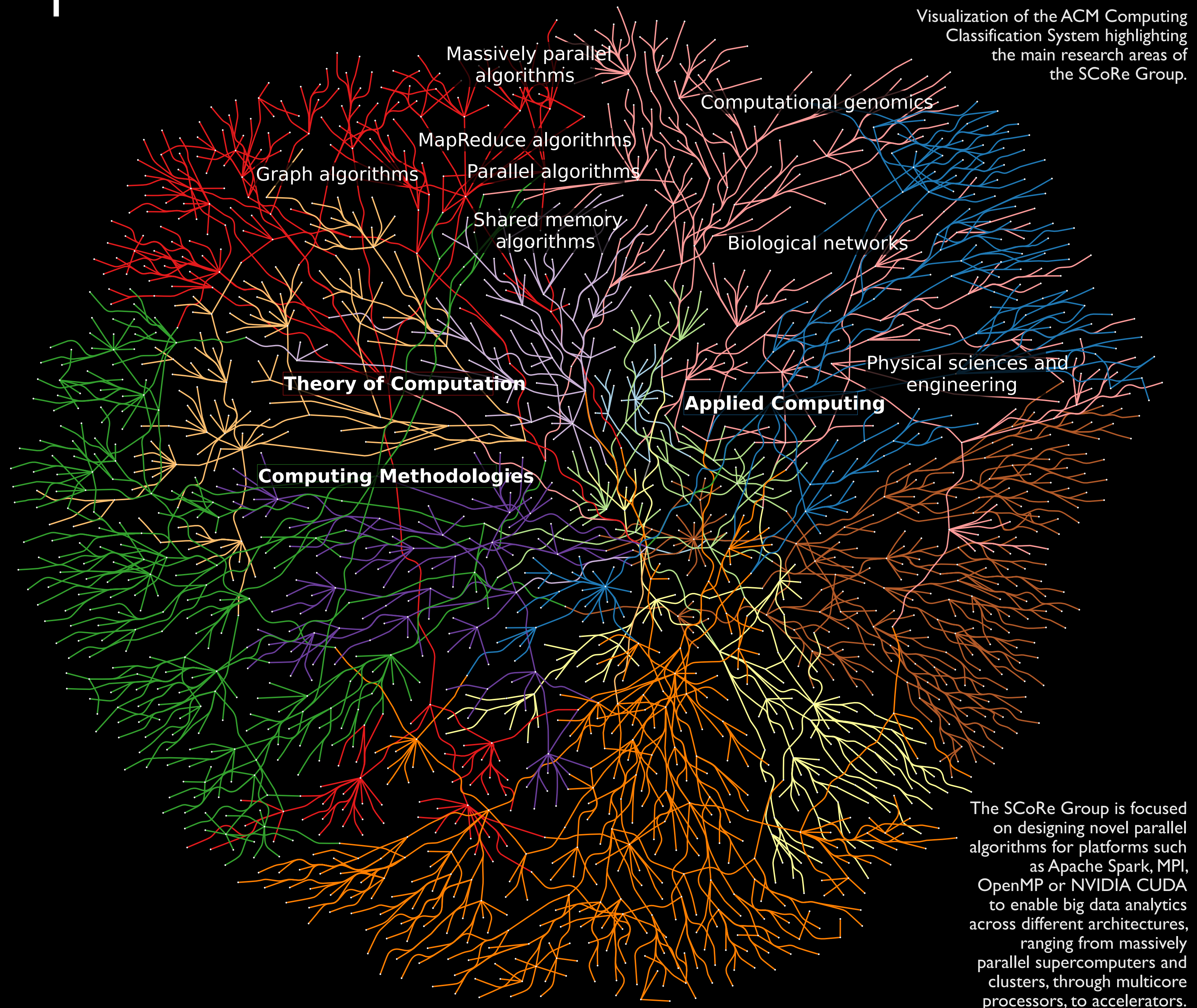
Data Driven Scientific Computing Developing new techniques to help engineers and scientists understand their data

The **SCoRe** Group is led by Dr. Jaroslaw Zola, who has over ten years of professional experience developing algorithms and methods for solving compute intensive and data driven problems in life sciences and engineering. You can contact him at http://www.jzola.org/.

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Visualization of the ACM Computing Classification System highlighting the main research areas of the SCoRe Group.

Massively parallel algorithms

Computational genomics

MapReduce algorithms

Graph algorithms

Parallel algorithms

Shared memory algorithms

Biological networks

Theory of Computation

Physical sciences and engineering

Applied Computing

Computing Methodologies

The SCoRe Group is focused on designing novel parallel algorithms for platforms such as Apache Spark, MPI, OpenMP or NVIDIA CUDA to enable big data analytics across different architectures, ranging from massively parallel supercomputers and clusters, through multicore processors, to accelerators.

University at Buffalo The State University of New York

SCoRe group