

Symbolic Computation — A philosophy of mathematics

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Symbolic Computation is often treated as just another field of mathematics or computer science. We argue that Symbolic Computation is not so much a particular subfield of mathematics, but rather a point of view for investigating and exploring a vast variety of mathematical fields. We demonstrate this hypothesis by showing the application of symbolic computation to problems in geometry, algebra, and logic. Symbolic computation is really a specific approach to mathematics, a philosophy of mathematics.