Khovanov and Heegaard Floer theories through the lens of immersed curves
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Over the past five years, a number of immersed curve invariants have emerged that interpret both Khovanov and Heegaard Floer theory in terms of the Fukaya categories of very simple surfaces. This new technology is well-adapted to cut-and-paste arguments and has already proven to be effective for answering open problems in low-dimensional topology. I will give a broad overview of these invariants and their applications.