

Growing Objects

Jesse Louis-Rosenberg and Jessica Rosenkrantz, Nervous System

Jessica and Jesse will dissect their attempts to mash-up biology, architecture, computer science and fashion. From futuristic dresses generated from body scans and made entirely by robots to algorithmic studies of mutant plants and coral. This talk will take you through some of the projects they have created over the last 9 years at their design studio, Nervous System, while examining the possibilities and challenges of digital fabrication and raising questions about the future of design, fashion and manufacturing.

We will go into some depth about the math and simulation techniques we use to realize our projects, including: discrete differential geometry, partial differential equations, and rigid body physics simulations using tools like WebGL, javascript, C++, CGAL, and OpenVDB.