For violin, press command-print - [News]

Publisher: IEEE

Cite This



Abstract:

SINCE THE 1500s, artisans known as luthiers have been making violins by hand. With saws, chisels, planes, calipers, and a keen eye as tools, a luthier spends dozens of hours sweating the details of every line and every curve in each piece of wood. But the transparent plastic violin pictured in the foreground-being played in January at the TCT Japan 2020 expo in Tokyo-took shape inside a 3D printer. The instrument, produced by the Tokyo Metropolitan Industrial Technology Research Institute, owes its form, fit, and symmetry to computerized scans of a wooden instrument. Those blueprints guided the machine as it went through the additive manufacturing process whereby layer after layer of resin is built up-a far cry from the painstaking sculpting process that luthiers have used for centuries.

Published in: IEEE Spectrum (Volume: 57, Issue: 4, April 2020)

Page(s): 14 - 15 INSPEC Accession Number: 19509129

Date of Publication: 03 April 2020 **ODI:** 10.1109/MSPEC.2020.9055905

▶ ISSN Information: Publisher: IEEE





