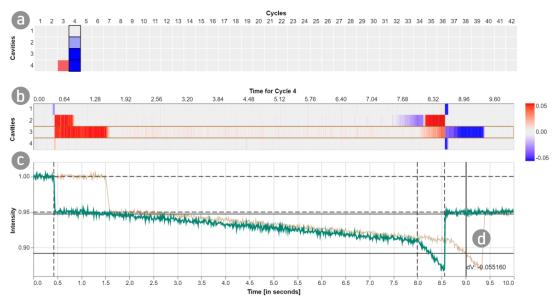
Visualizing and Monitoring the Process of Injection Molding



Christian A. Steinparz, Thomas Mitterlehner, Bernhard Praher, Klaus Straka, Holger Stitz, Marc Streit





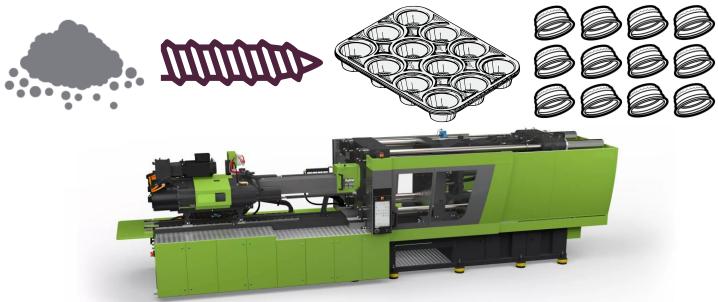




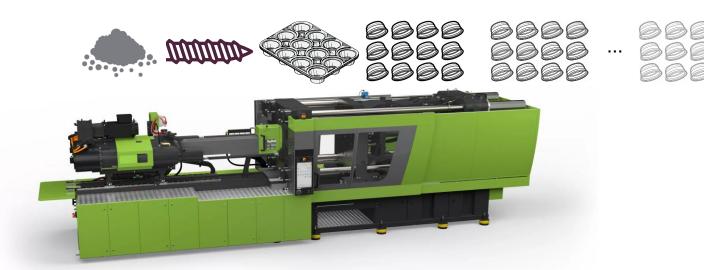






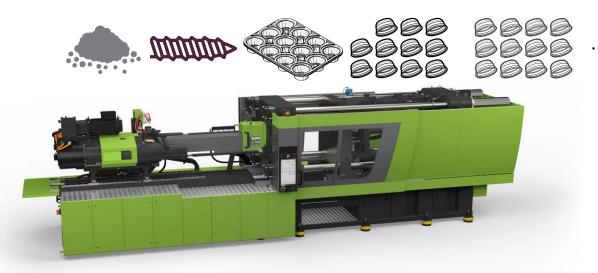




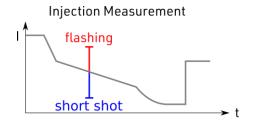


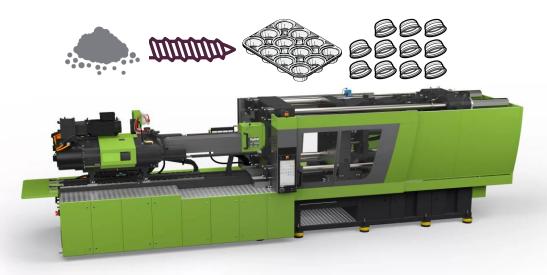




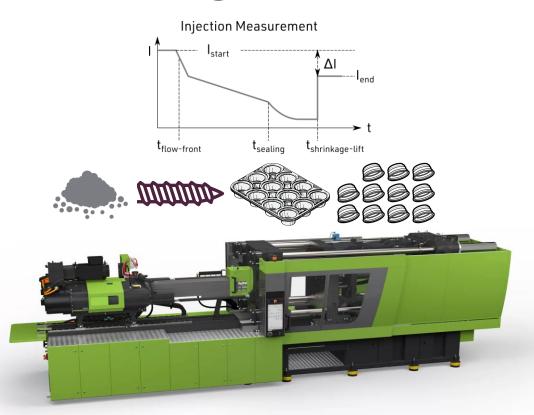




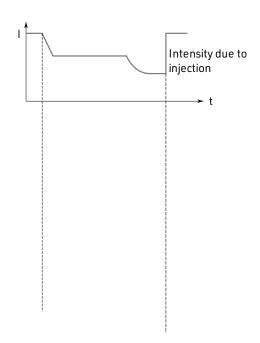


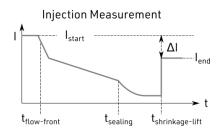




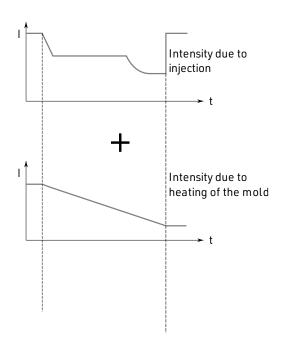


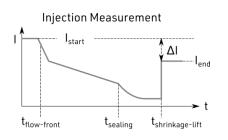




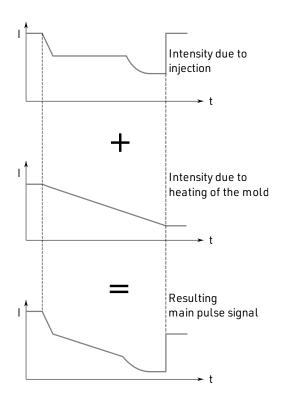


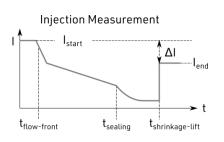




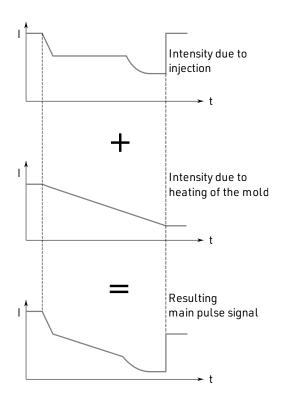


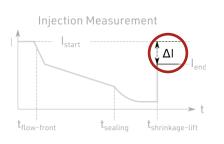




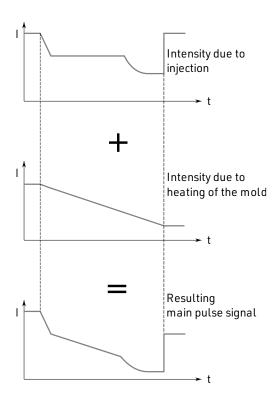


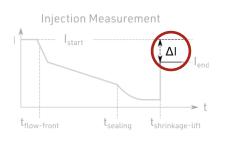


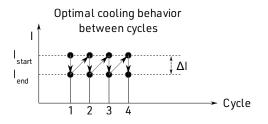








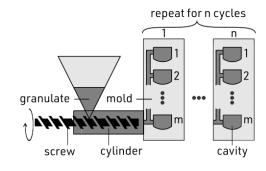






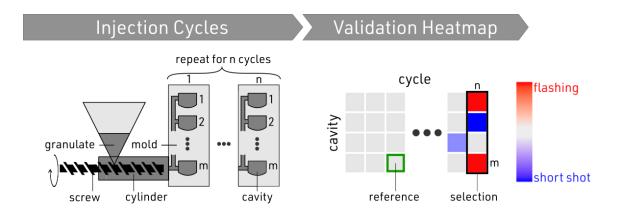
Visualization Workflow

Injection Cycles



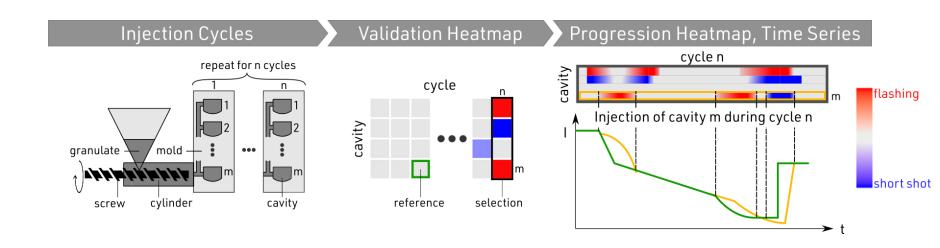


Visualization Workflow

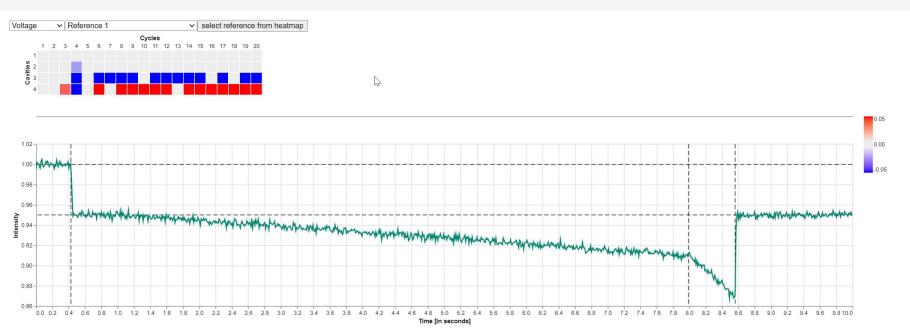




Visualization Workflow



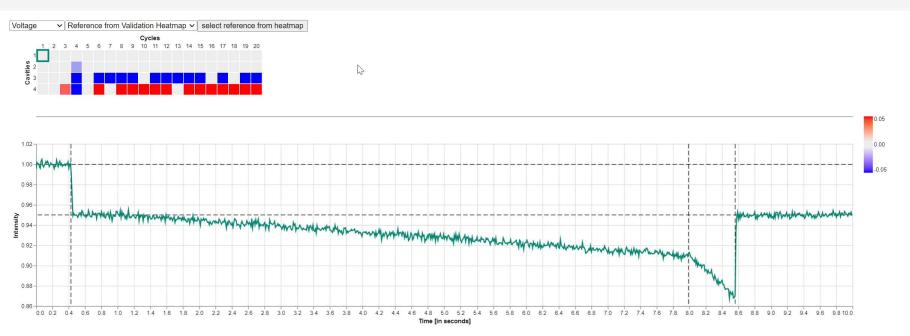










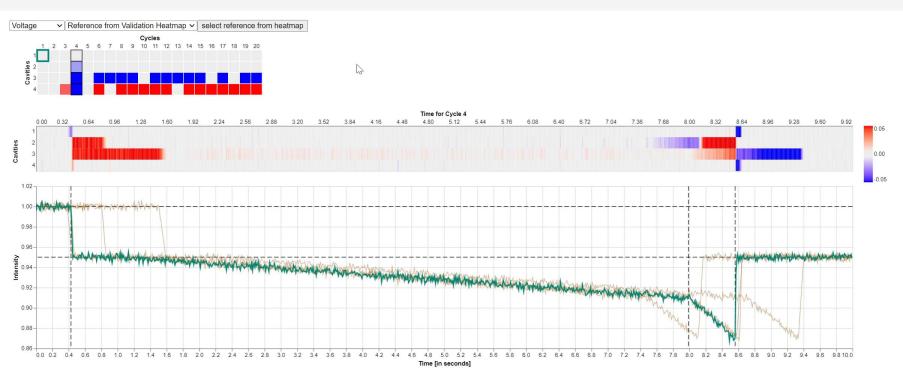








Pro2Future MoldSonics > Testdata_Paper > Intensitaet_Hauptpuls Production Analysis

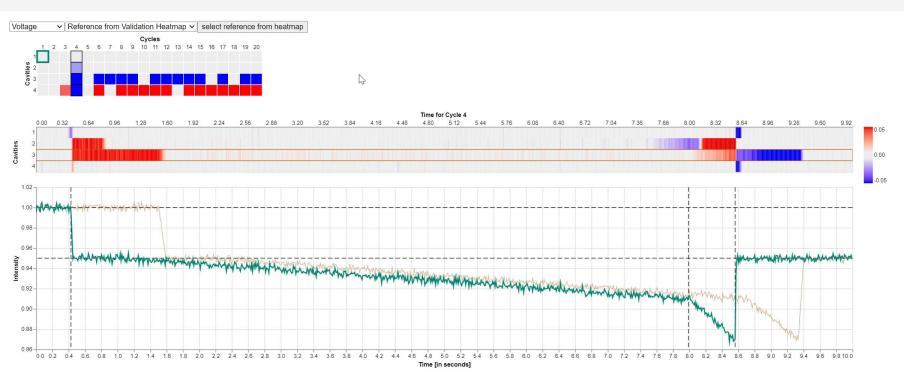








Pro2Future MoldSonics > Testdata_Paper > Intensitaet_Hauptpuls Production Analysis

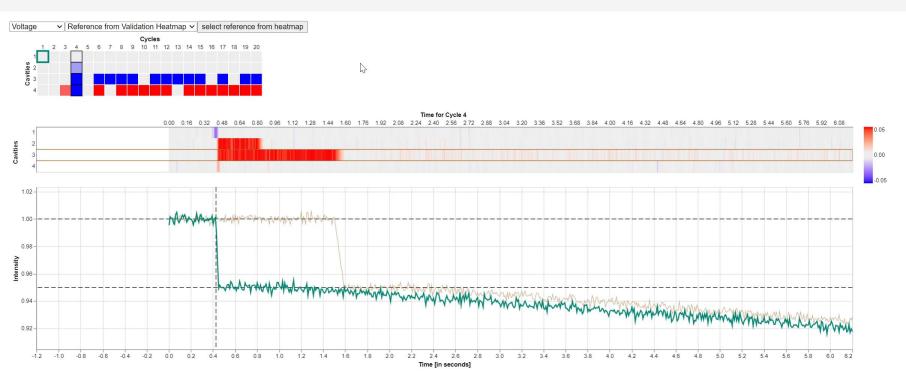








Pro2Future MoldSonics > Testdata_Paper > Intensitaet_Hauptpuls Production Analysis

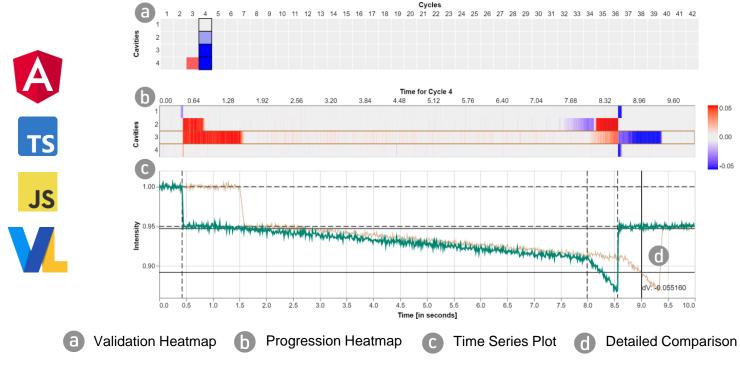








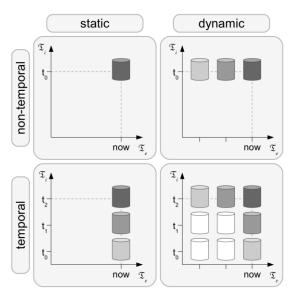
Interactive Multi-View Display



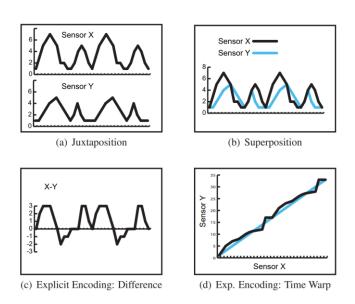


http://injection-molding.jku-vds-lab.at/

Related Work, Theory



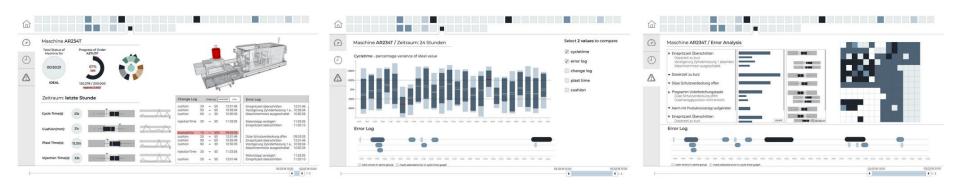
Visualization of Time-Oriented Data Aigner et al. (2011)



Considerations for Visualizing Comparison Gleicher (2018)



Related Work, Practical



Reflections on Visualization Research Projects in the Manufacturing Industry, Greiner BigDataVis, Cibulski et al. (2022)



NC Machine



Process of machining a part



Resulting part

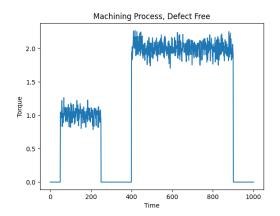




NC Machine



Process of machining a part



Resulting part

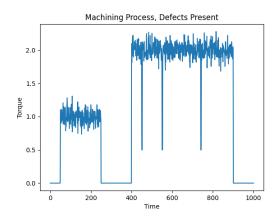




NC Machine



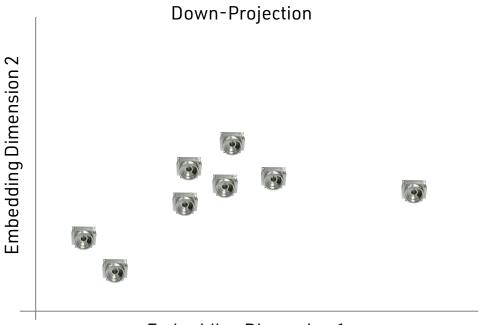
Process of machining a part



Resulting part

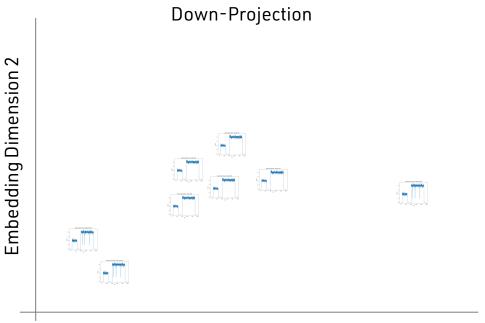






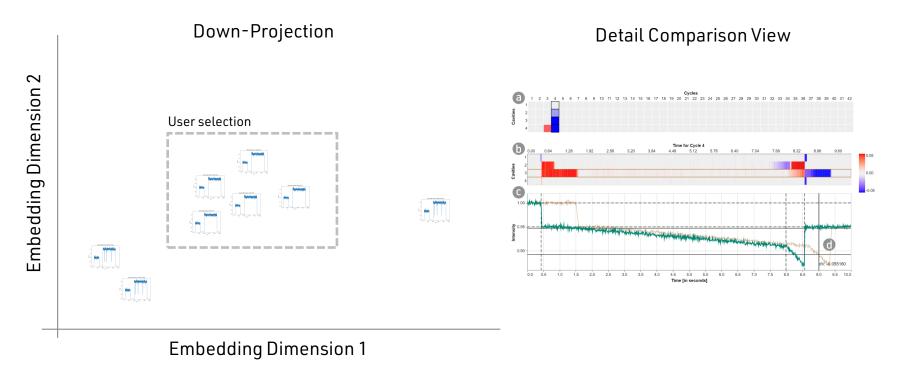
Embedding Dimension 1



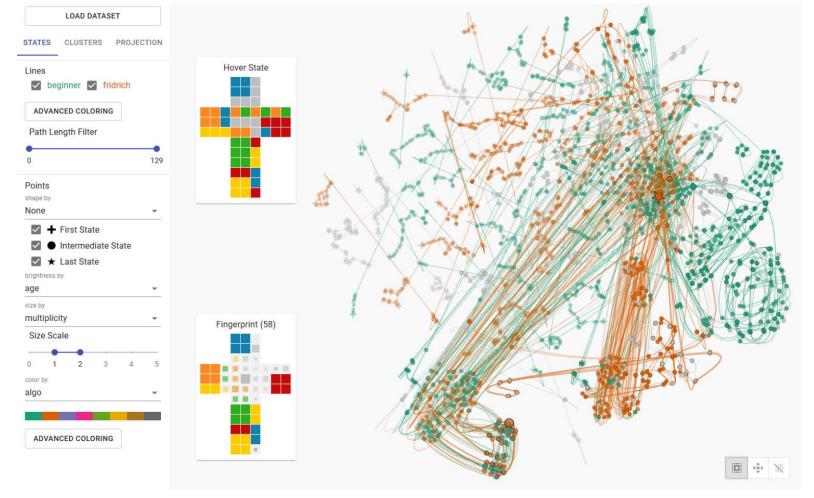


Embedding Dimension 1





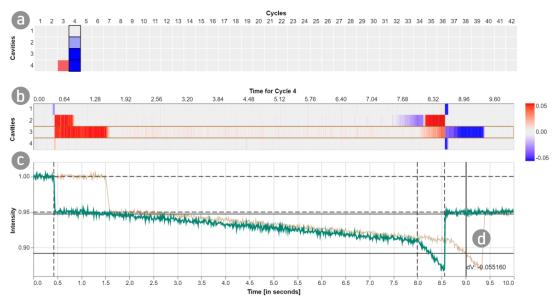






https://jku-vds-lab.at/projection-space-explorer-app/

Visualizing and Monitoring the Process of Injection Molding



Christian A. Steinparz, Thomas Mitterlehner, Bernhard Praher, Klaus Straka, Holger Stitz, Marc Streit









