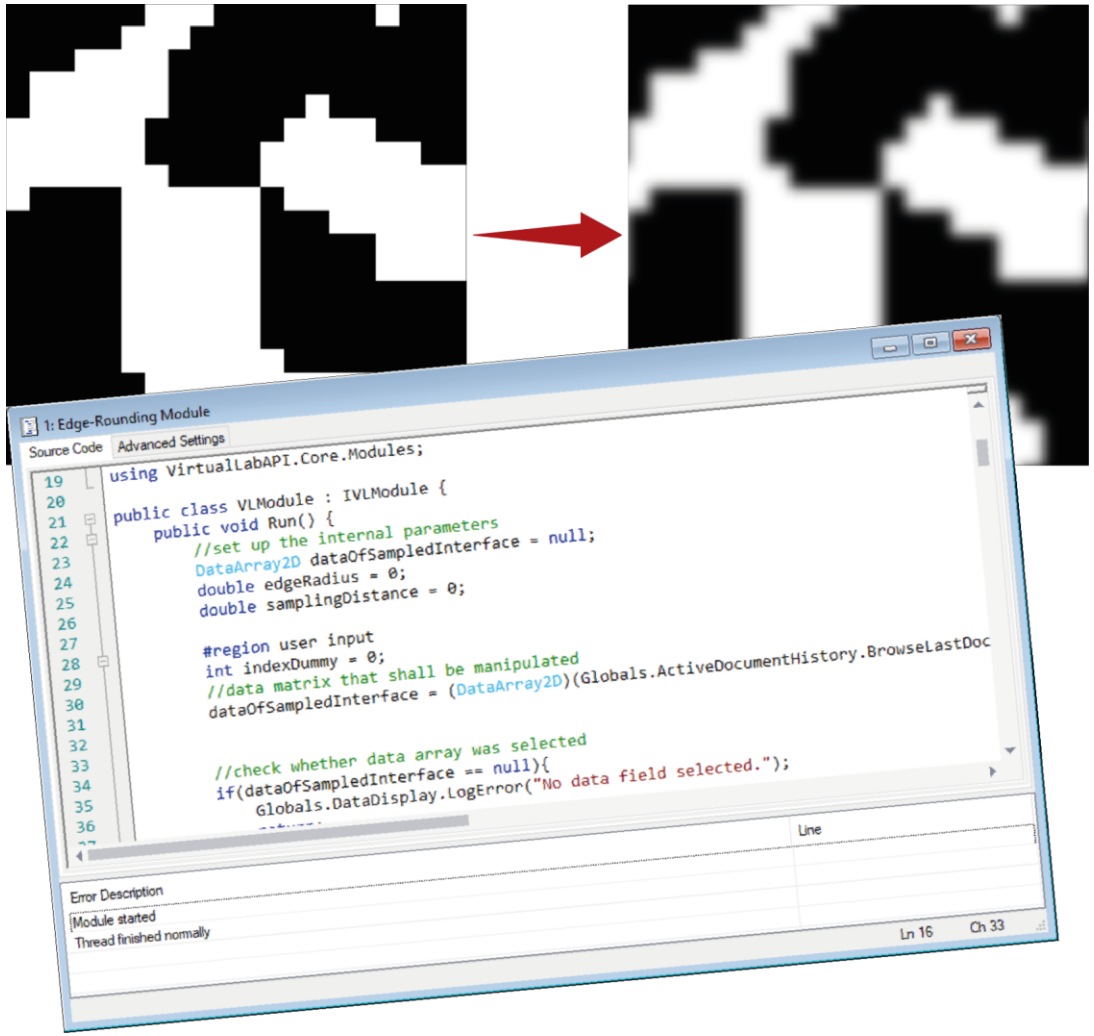
Programming a Module that Smooths the Edges of a Structure

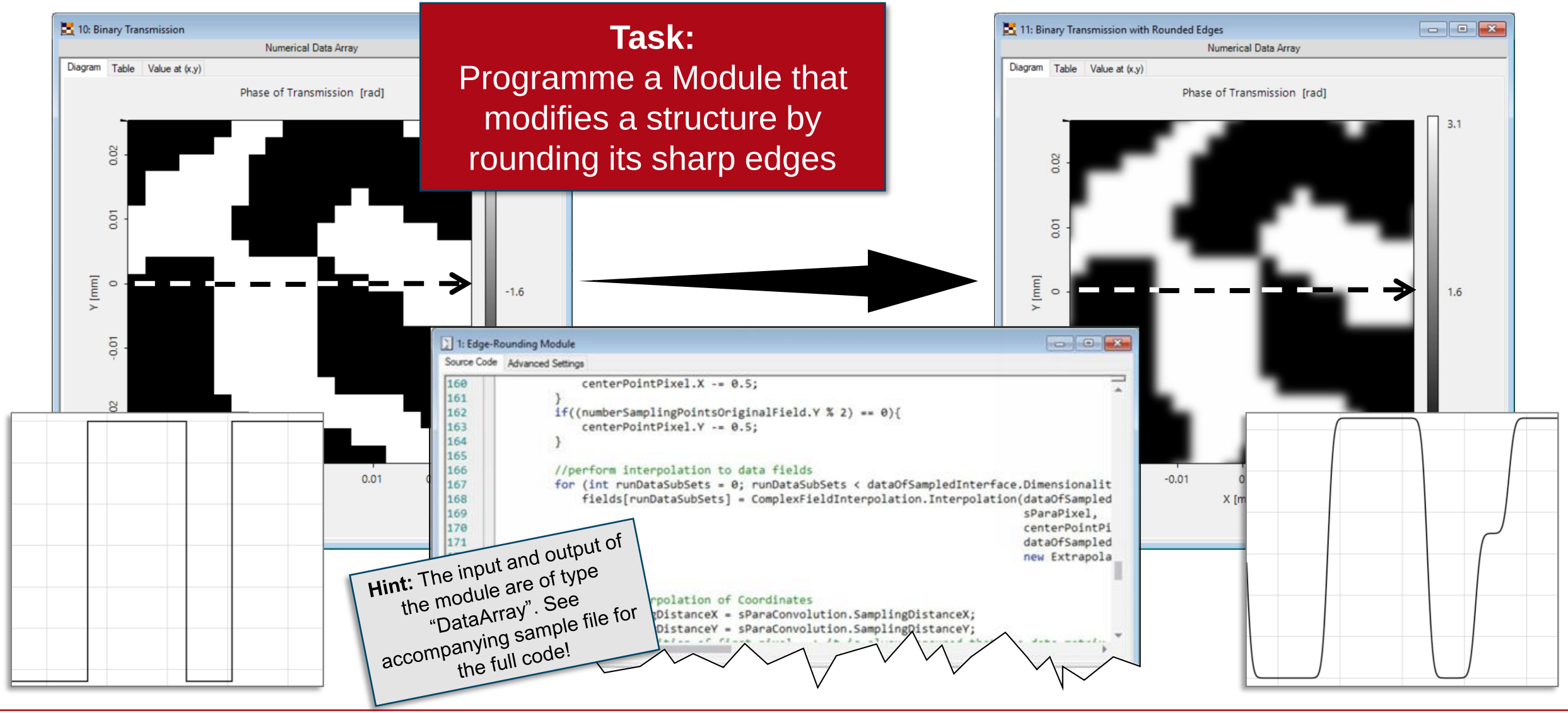
Abstract



Often, idealizations which are assumed in computational models turn out to deviate tangibly from reality. One such example is the design of a microstructure with sharp borders in the etched structure: fabrication techniques cannot achieve a perfectly sharp wall, and produce more rounded edges instead. This programmable module is designed to be applied to the sharp result of a designed structure, and it will round off the edges according to user-specified values, in order for a more realistic structure to be analyzed.

Programmable Module to Smooth Structure Edges

Task:
Programme a Module that modifies a structure by rounding its sharp edges



Hint: The input and output of the module are of type "DataArray". See accompanying sample file for the full code!

Document Information

title	Programming a Module That Smooths the Edges of a Structure
document code	CZT.0024
version	1.0
toolbox(es)	Starter Toolbox
VL version used for simulations	2025.2 (Build 1.118)
category	Feature Use Case
further reading	- How to Work with the C# Module and Example (Computing the Deviation Between Two Fields) - Programming a Module That Computes the Standard Deviation between Two Harmonic Fields