

Evaluation of 3D Registration Reliability and Speed – A Comparison of ICP and NDT

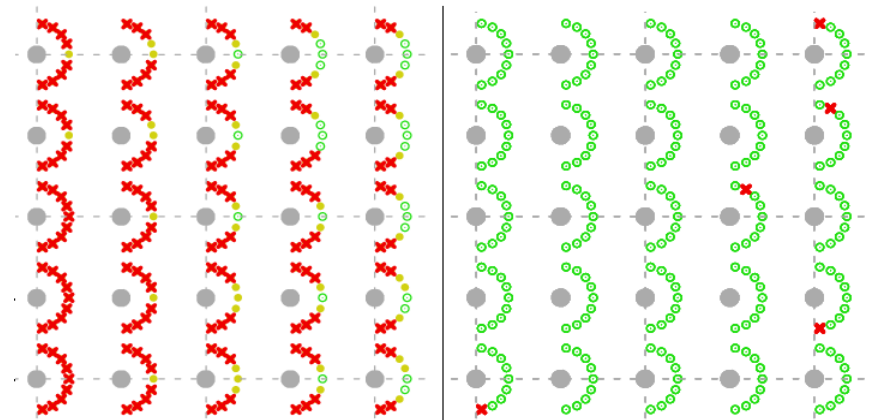
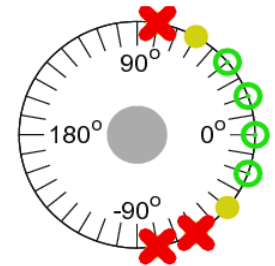
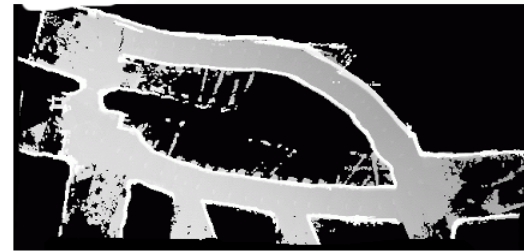
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- Evaluate valley of convergence, accuracy, and execution time for ICP and NDT in underground mine.
- 6DOF registration with 3D data.
- Unbiased comparison made by two research groups.
- Introduce interpolated NDT.
- NDT is faster and has wider valley of convergence.



ICP

NDT with trilinear interpolation

Convergence results: ○ success, ✗ failure.