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International Conference of Computer Science and Engineering (IC2SE 2nd) 2021.

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Submission Paper

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Author E-mail: pratama@polman-bandung.ac.id, y159106@edu.tut.ac.jp, herman@polman-bandung.ac.id, udinharun@pens.ac.id, idris@pens.ac.id
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Abstract

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- II. Hole Inspection Properties
- III. Inspection Planning Algorithms
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Abstract:

In this paper, the development of inspection code generator for hole cylindrical feature evaluation is reported. The development process aims to enable on-machine measurement process through Computer Aided Inspection Planning (CAIP) software. A CNC machine equipped with touch probe measuring tool is utilized in this research as an object for On-Machine Measurement (OMM) System. The hole feature as measurement object were defined from feature recognition process. An algorithm to construct inspection path planning was developed according to hole feature measurement point. Inspection path planning define touching point, retract point, clearance ratio, and retract distance from the measurement point. The inspection path planning is transformed into inspection code based on Heidenhain ITNC 30i controller code standard. The Inspection code were experimentally executed in the DMG 50U CNC Machine to validate the path planning. Renishaw touch probe were used to measure the hole feature dimension and position. The OMM result was compared to the vernier and measurement result. The experiment result shows that the proposed method has accurate equal inspection result to the vernier.

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