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The ModelCHECK Handbook by R.L. Astheimer

Capturing Measurement Resources in the QIF Format

Posted on August 16, 2017 by Michelle Nordwald

Dr. Edward Morse of The University of North Carolina at Charlotte will present at the 2017 **Quality Information Framework (QIF) Symposium**. The 3D Collaboration & Interoperability Congress (3D CIC) and the QIF Symposium will be held in Golden, Colorado on October 3-5, 2017.

PRESENTATION

Capturing Measurement Resources in the QIF Format

The **Quality Information Framework (QIF)** is an ANSI Standard that consists of multiple parts in which Part 5: QIF Resources specifies measurement resources sufficient for use in measurement planning and other measurement related applications. For the current QIF Version 2.1, significant breadth of measurement resources was added to the standard. This presentation will describe the development and use of an application that captures measurement resources from an industrial environment and creates a valid QIF document containing the resource data. The goals of this project are twofold – first, we wish to determine if there are any gaps in the current QIF resources schema (i.e., are there measurement resources that we have not defined), and second, we want to provide a software toolkit that will simplify the cataloging of existing measurement resources into a QIF format that then could be consumed by other software applications such as dimensional measurement equipment (DME) selection programs or measurement planners.



PRESENTER

Dr. Edward Morse

Deputy Director, Center for Precision Metrology
Professor of Mechanical Engineering
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Edward Morse was awarded his PhD from Cornell University in January of 2000. He departed Cornell in October of 1999 to join the faculty at the **University of North Carolina at Charlotte** as an assistant professor in the **Department of Mechanical Engineering and Engineering Science**. He was granted tenure and promoted to associate professor in 2005, and promoted to full professor in 2011. His current research interests include large scale metrology, assembly modeling and analysis, machine tool metrology, uncertainty estimation and analysis, and various aspects of computational metrology.

Dr. Morse is a member of several ASME standards committees for tolerancing and metrology, and is chair of the B89 division 4 for Coordinate Measuring Machines. He is also a Subject Matter Expert (SME) representing the United States in ISO Technical Committee 213 on Geometric Product Specification and Verification.

3D CIC + QIF SYMPOSIUM

The **3D Collaboration & Interoperability Congress** featuring the Quality Information Symposium focuses on 3D CAD collaboration and interoperability for the entire product lifecycle. With the 2017 theme of **UNITE: Engineering & Shop Floor Collaboration**, real users share their experiences with turning design concepts into manufacturing product reality using 3D models. The joint 3D CIC and QIF Symposium event will be held **October 3-5, 2017** at the **American Mountaineering Center** in Golden, Colorado. Find out more and register for 3D CIC + QIF Symposium at 3dcic.com.



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