

**Tutorial Proposal**  
**IEEE 15<sup>th</sup> International Conference on Industrial Informatics INDIN' 2017**  
**-The Undergoing Industrial Informatics R-Evolution-**

**Tutorial Title:**  
**AutomationML and its usage in the Industrie 4.0 context**

**Tutorial presenter:**  
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**1. KEYWORDS**

**AutomationML, Industrie 4.0, concepts**

**2. AIMS AND LEARNING OBJECTIVES**

**Understand AutomationML: What it is, for what it can get used, and in which direction it is going to be developed.**

**3. SHORT SUMMARY OF CONTENTS**

**AutomationML was initially developed as a data exchange format to enable a consistent and lossless data exchange in a heterogeneous software tool landscape within the engineering process of production systems. In the last years, the syntax, basic semantics, and advanced semantics were developed. But recent developments go beyond the single use within the engineering phase. Essential for those was the cooperation of the AutomationML association with the OPC Foundation. The result was a standard that describes how AutomationML can get transferred via the OPC UA technology. This enables a usage of AutomationML even in the operation phase of production system. By this, the requirements - postulated in the Industrie 4.0 context - on digitalization and data consistency can be met.**

**4. TARGET AUDIENCE**

**Technic affine decision-makers**

**5. DURATION**

**90min.**



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**6. SHORT BIOGRAPHY OF SPEAKER (max. ½ page)**

**Nicole Schmidt**

Nicole Schmidt works as a research assistant and PhD candidate at the Otto-von-Guericke University in Magdeburg since 2012. Her field of work is the optimization of the life cycle of production systems.

She also works for the office of the AutomationML association and is involved in the technical development as well as in standardization of AutomationML.

**Ronald Rosendahl**

Ronald Rosendahl has been working since 2012 as research assistant at the IAF. In 2011 he worked as research assistant at the Institute for Automation Engineering of the faculty for electrical engineering. He attended the Otto-von-Guericke University Magdeburg and completed his diploma degree in computer visualistics (specialization: image processing technologies) in 2009.

