**Abstract Title (18 font)**

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* 18 font with bold and center justification
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**Lean Manufacturing, Operations Management and Six Sigma Applications**

**Authors and Affiliations**

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## Page Layout

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## Acknowledgements

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# Biography / Biographies (for single author – biography and multiple authors- biographies) – 12 font bold

* Include bio of each author at the end of the abstract, 10 font
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**Jürgen Herbert Lenz** is Research Professor in the field of AI Systems for Manufacturing at Augsburg Technical University of Applied Science. In addition, he serves as Deputy Scientific Manager at the Technology Transfer Center in Nördlingen, Bavaria. Prior to this position, he was Professor of Smart Manufacturing at the Technical University of Applied Sciences Würzburg-Schweinfurt (THWS). He gained Industry Experience as Solution Architect for implementation and consulting of (I)IoT-Applications working for INNEO Solutions GmbH based in Ellwangen, Germany. Previously he served as Postdoctoral Fellow at West Virginia University in Morgantown, WV, USA (2018-2020) and worked for Fraunhofer at the Institute for Manufacturing Engineering and Automation IPA in Stuttgart. He completed his PhD at the University of Stuttgart, Germany (2018), his Master of Science in Industrial Engineering as a Fulbright Scholar at Oregon State University (2012) and the German Engineering Diploma in Manufacturing Engineering at University of Applied Science in Ulm (2009). His research interests are in the field of Smart Manufacturing include Machine Tool Connectivity, IoT-Platforms, Data Analytics and Machine Learning.

**Ahad Ali** is an Associate Professor and Director of Industrial Engineering Program in the A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering at the Lawrence Technological University, Southfield, Michigan, USA. He earned B.S. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh, Masters in Systems and Engineering Management from Nanyang Technological University, Singapore and PhD in Industrial Engineering from University of Wisconsin-Milwaukee. He has published journal and conference papers. Dr Ali has completed research projects with Chrysler, Ford, New Center Stamping, Whelan Co., Progressive Metal Manufacturing Company, Whitlam Label Company, DTE Energy, Delphi Automotive System, GE Medical Systems, Harley-Davidson Motor Company, International Truck and Engine Corporation (ITEC), National/Panasonic Electronics, and Rockwell Automation. His research interests include manufacturing, simulation, optimization, reliability, scheduling, manufacturing, and lean. He is member of IEOM, INFORMS, SME and IEEE.

**Don Reimer** is the managing member of The Small Business Strategy Group, L.L.C and serves as an adjunct professor at Lawrence Technological University**.** Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He has been recognized as a professional management consultant with over 45 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, management and corporate entrepreneurship and innovation for engineers. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. He has served as a KEEN Fellow for The Kern Family Foundation. He is member of the Lawrence Tech Alumni Board of Directors and has elected a Fellow of the IEOM Society International. Mr. Reimer is a faculty advisor of the Student Chapter of the IEOM Society at Lawrence Tech.