



# 8. International Quality Conference



**LATE ARRIVALS**

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## **PATH TO BECOMING A SUCCESSFUL (LEAN) LEADER**

**Abstract:** *In this paper, Lean Leadership (LL) principles and core values are presented. By comparing widely enrooted Traditional leadership approach to LL one, advantages, benefits of the latter are clearly pointed out, with large focus on Quality improvement. LL Development model, capturing the values of the new way of leading people and stages to embracing the new thinking, are depicted, marking Lean self-development as the first step in a row. True LL development is reflected via learning, of which, three stages will be presented. Once acquired, true leadership skills could enable one to coach the others (the second stage), teaching them how to learn and develop properly. Within the third, Kaizen stage, leaders make sure that the improvements are carried out from the bottom up, with the aim of aligning all the small improvement strains into big and long term aim (fourth stage). Finally, results of the true LL are to be observed as a gradual cultural change, followed by performance metrics, changing for better – especially in the field of Quality.*

**Keywords:** *Leadership, Quality, Self-Development, Coaching, Kaizen, Objectives.*



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## **NEW DEVELOPED AUTOMATED MULTI-STOREY CAR PARK**

**Abstract:** *A project request made by a North German automobile manufacturer to a logistics service provider led to the formation of a joint venture with a special-purpose machine manufacturer. The outcome of this collaboration was the development of a fully automated (and patented) car park.*

*The first pilot installation of the car park was put into operation on the premises of the logistics provider where it has been running smoothly for four months in a real world test environment. This newly developed car park is easy to use, allows an exceptionally fast automatic parking storage and retrieval (21 seconds), saves space and can be built competitively in every shape and size. Furthermore, the initial investment is comparable to that of a traditional multi-storey car park. In short, it could prove to be the optimal solution to the current dearth of available parking space in urban environments.*

**Keywords:** *automated, multi-storey, car park, pilot installation.*



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## STATISTICAL PROCESS CONTROL, MEASUREMENT AND QUALITY ASSESSMENT PROCESS

**Abstract:** *The paper presents the essence of the examination, analysis and evaluation of process capability, and special attention was given to indicators of ability: potential indices and process capability. Computer checking precision and accuracy is a bit more complicated but faster because it applies a suitable computer program (eg, Excel, SPSS, Statgraphics Plus, Statistica, Minitab, Crystal Ball, SigmaXL, Sigma Plot). Processing of Measurement and analysis process capability indicators, using the software package Minitab was done for testing the inlet diameter exhaust Ø48.2 mm in terms of mass production.*

**Keywords:** *Process capability, capacity indicators, the index of potential and capability index.*





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## **CONCEPT OF ENGINEERING EDUCATION BASED ON THE UTILITATION CNC AND CMM TECHNOLOGY**

***Abstract:** Modern industry trends require the production of parts with high quality, which is not possible without a coordinate measurement. It further requires education of high quality engineers who will be closely associated with modern manufacturing processes. From the see above, arise the necessity for the introduction of new teaching methods of learning students at the Faculty of Engineering in Kragujevac. The principle in practical teaching basically contains CAD models, CNC machining and CMM part measurement. For the practical training is used horizontal CNC milling machine and horizontal coordinate measuring machine CMM. In this way, the teaching tool is directed and helps students in developing practical experience.*

***Keywords:** Education, CNC machining, CMM measurement*

