



QMS Global LLC

Research* Training* Software Solutions

Miller Business Innovation Center, 9690 So. 300 West, Sandy, UTAH 84070 USA

Research & Development (R&D), Recent Papers, Articles, and Activities in the areas of Lean Six Sigma, Design for Six Sigma (DFSS), and Operations and Supply Chain Management by QMS Global LLC

Related Research, Books, Articles, and Training Guides:

Recent Activities and Involvement of QMS and its team in Six Sigma and Related Activities : Six Sigma Quality/Operations and Supply Chain Related Research and Recent Papers presented/published.

Presented and published the following papers related to Six Sigma and related technologies in international conferences. One paper was awarded the best paper and two others were accepted for publication in reputed Journals.

Author of the following papers: *Amar Sahay, Ph.D.*

Co-author of the papers: *Karun Mehta, M.S.*

**The research for all these papers was provided by Karun Mehta, M.S.; Senior Engineer, (QMS Global LLC: Salt Lake City, UT) and our research team.*

- 1. Decision Support System Software for Implementing Six Sigma, Lean Six Sigma, and Design for Six-Sigma Programs for Manufacturing and Service Industries, International Conference of the Global Business Development Institute (GBDI), Las Vegas, 2008 by (This paper was awarded the best paper in Decision Sciences and was accepted for publication in GBDI Journal).*
- 2. Process Capability and Measurement System Analysis: Designing and Implementing Gage R and R for Correct Assessment of Process Capability in Six Sigma Environment, 8th Hawaii International Conference on Business, Honolulu, Hawaii, May 2008 (This paper has been accepted for publication in Journal of Management and Marketing Research).*
- 3. New Approach, Algorithms, and Models for Implementing Six Sigma, Lean Manufacturing (Lean Six Sigma), and Design for Six-Sigma Programs in Manufacturing Environment, 8th Hawaii International Conference on Business, Honolulu, Hawaii, May 2008. (This paper has been accepted for publication in Journal of Management and Marketing Research).*

4. *Six Sigma Process Capability Analysis When the Process Measurements do not follow a Normal Distribution*, 7th Hawaii International Conference on Business, Honolulu, Hawaii, May 2007.
5. *Decision Support System (DSS) for designing, managing, improving, and integrating the Supply Chain*, 7th Hawaii International Conference on Business, Honolulu, Hawaii, May 2007
6. *Six Sigma Methodologies for Data Mining: Integrating Data Mining and Six Sigma Quality Methodology*, submitted for acceptance to the International Conference of the Global Business Development Institute (GBDI), Las Vegas, 2009.
7. *Assisting Higher Education in Assessing, Predicting, and Managing Issues Related to Student Success: A Web-based Software using Data Mining and Quality Function Deployment-* International Conference of Academic and Business Research Institute (ABRI) Conference, Las Vegas, 2010.
8. *Quality Function Deployment (QFD) and House of Quality (HOQ): Designing Product or Service to Meet and Exceed Customer- Requirements* ©2010 Amar Sahay, Ph.D.
Research Provided by: Karun Mehta, M.S. **(A QFD Software to be released soon by QMS).**
9. *Designing Products or Services to Meet and Exceed Customer Needs and Requirements using Quality Function Deployment (QFD) and House of Quality (HOQ): Applications in Six Sigma and Design for Six Sigma (DFSS)*
14th International Conference of the Global Business Development Institute (GBDI), Las Vegas, 2011. Submission Area: **Management of Quality and Competitiveness**
10. *Six Sigma Methodology for Data Mining: Integrating Data Mining and Six Sigma Quality Methodologies* - 14th International Conference of the Global Business Development Institute (GBDI), Las Vegas, 2011. Submission Area: **Management of Quality and Competitiveness**

Training/ Certification/Data Analysis Books:

Author of these books: Amar Sahay, Ph.D.

1. ***Six Sigma Quality: Concepts and Cases – Volume I
Statistical Tools in Six Sigma DMAIC Process using MINITAB***
2. ***Six Sigma Quality: Concepts and Cases – Volume II
Statistical Tools in Six Sigma DMAIC Process using MINITAB***
3. ***Statistics & Data Analysis Concepts with Computer Applications***
4. ***MINITAB for Six Sigma – Getting Started with MINITAB Statistical Software***
5. ***Six Sigma Yellow Belt- Training and Certification Guide***
6. ***Six Sigma Green Belt- Training and Certification Guide***
7. ***Six Sigma Black Belt- Training and Certification Guide***