Paper Title

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Paper Title

- 18 font with bold and center justification
- All titles should be in standard mixed case, where the first letter of each word is capitalized and followed by lower case letters, as noted below:

Lean Manufacturing, Operations Management and Six Sigma Applications

Authors and Affiliations

- Author name – 12 font with bold and center justification
- Affiliation – 12 font with center justification
- Authors with same affiliation should be together
- Authors with different affiliation should be listed separately with one space in between
- Email can be added for each author
- Single space between affiliation and abstract title

Abstract

Abstract (10 font)

- Abstract title – 12 font with bold and center justification
- Abstract text – 10 font with full justification
- Not exceeding 500 words.

Keywords

Keyword 1, Keyword 2, Keyword 3, Keyword 4 and Keyword 5.

- Keywords are critical to search abstract or paper. Please carefully choose appropriate keywords.
- One space between abstract and keywords title
- Keywords title – 12 font
- No more than five keywords. All keywords are in 10 font.

1. Introduction

Add introduction here including motivation of the research (why this research is important / why this research is needed), and problem statements. (10 font)

- One space before introduction
- Use number for section title as "1."

1.1 Objectives (11 font)

Add research objectives here. Make sure to fulfil all the research objectives at the end and articulate in the conclusion. Focus on key unique research contributions (10 font)

- Sub title – 11 font
- Use sub title number as "1.1"

2. Literature Review (12 font)

Add literature review here (10 font)

3. Methods (12 font)

Add methods here (10 font)

4. Data Collection (12 font)

Add data collection here. (10 font)

5. Results and Discussion (12 font)

5.1 Numerical Results (11 font)

Add numerical results here. Make sure to describe all tables and add inferences (10 font)

5.2 Graphical Results (11 font)

Add graphical results here. Make sure to describe all figures and add inferences. If needed, add statistical analysis here. (10 font)

5.3 Proposed Improvements (11 font)

Add propose improvements write here including additional numerical and graphical results (10 font)

5.4 Validation (11 font)

Add any validation here including improvement with statistical hypothesis tests write here (10 font)

6. Conclusion (12 font)

Add conclusion here. Make sure to address that all objectives are met and emphasize of unique research contribution (10 font)

References (12 font)

Add references here. Make sure to follow IEOM reference format. See details at the end. (10 font)

Rahman, M. A., Sarker, B. R. and Escobar, L. A., Peak demand forecasting for a seasonal product using Bayesian approach, *Journal of the Operational Research Society*, vol. 62, pp. 1019-1028, 2011.

Reimer, D., Entrepreneurship and Innovation, Available: http://www.ieomsociet.org/ieom/newsletters/, July 2020.

Reimer, D. and Ali, A., Engineering education and the entrepreneurial mindset at Lawrence Tech, *Proceedings of the 3rd Annual International Conference on Industrial Engineering and Operations Management*, Istanbul, Turkey, July 3 – 6, 2012, pp. xx-xx.

Reimer, D., Title of the paper, *Proceedings of the 5th North American International Conference on Industrial Engineering and Operations Management*, Detroit, Michigan, USA, August 10-14, 2020, pp. xx-xx.

Shetty, D., Ali, A. and Cummings, R., A model to assess lean thinking manufacturing initiatives, *International Journal of Lean Six Sigma*, vol. 1, no. 4, pp. 310-334, 2010.

Biography (12 font)

Add each author biography – limited to 250 words. (10 font)

Page Layout

- 8 1/2" X 11" paper
- All margins: 1.00"
- Full justification
- Times New Roman font
- Maximum 12 pages
- Single space for entire manuscript
- Each paper should have abstract, introduction, literature review with minimum 15 citations including some recent publications, methods, data analysis, numerical and graphical results, statistical analysis, validation, conclusion and references.
- Conference name as a header and copyright information as footer must be used. Copyright information implies that IEOM Society International has right to publication the paper

1. Headings (12 font)

12 font size with bold and left justification
Header should have numbering

1.1 Sub-Headings (11 font)

Title – 11 font with sub-numbering
Text – 10 font with no indexing
One space between paragraphs

Literature Review

If author is mentioned at the beginning for the citation:

Rener (2020) developed the SC network with uncertainty. - For Single author
Rener and Ali (2020) developed the SC network with uncertainty. - For two authors
Rener et al. (2020) developed the SC network with uncertainty. - For more than two authors

or if author is mentioned at the end for the citation:

SC network was developed with uncertainty (Rener 2020). - For single author
SC network was developed with uncertainty (Rener and Ali 2020). - For two authors
SC network was developed with uncertainty (Rener et al. 2020). - For more than two authors

Full details should be provided at the end for Reference Section:

Rener, A., Optimization of the supply chain network using uncertainty, *International Journal of Industrial Engineering and Operations Management*, vol. xx, no. xx, 2020.
Rener, A. and Ali, A., Optimization of the supply chain network using uncertainty, *International Journal of Industrial Engineering and Operations Management*, vol. xx, no. xx, 2020.
Rener, A., Ali, A. and Reimer, D., Optimization of the supply chain network using uncertainty, *International Journal of Industrial Engineering and Operations Management*, vol. xx, no. xx, 2020.

Few aspects to be considered to prepare a literature review:

- Introductory write up for literature review
- Make sure to add some recent references
- Avoid paper-by-paper review. It should be based on category. Similar topics, applications or tools could be added in one paragraph. Few citations should be in a paragraph.
- A summary paragraph should be added.

Figures

- Texts of figure should be readable
- Original high quality pictures
- Center justification
- Title of Figure should be in center and it must be mentioned as “Figure x: …”
- Title of figure should be sentence case with center justification and 10 font
- Title should be after figure
- All figure numbers must be mentioned in the body of the paper.
- One space between texts and figure, figure and title of the figure and title of the figure and texts.

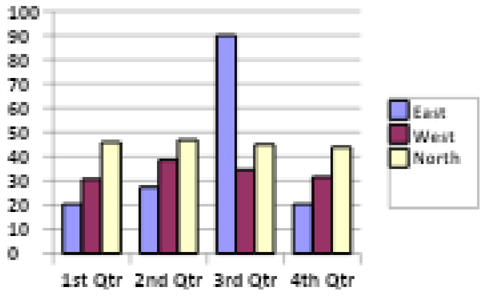

Figure 1. Name of the figure

Tables

- Texts of table should be readable
- Center justification
- Title of table should be in center and it must be mentioned as “Table x: …” It should be added before table.
- Title of table should be sentence case with center justification and 10 font size
- All table numbers must be mentioned in the body of the paper.
- One space between texts and table, table and title of the table and title of the table and texts.

Table 1. Name of the table

Equations

Equation numbering is optional.

Acknowledgements

Add acknowledgement if needed

IEOM Reference Format

Citation Styles

If author is mentioned at the beginning for the citation, use the below format:

Rener (2020) developed the SC network with uncertainty. - For Single author
Rener and Ali (2020) developed the SC network with uncertainty. - For two authors
Rener et al. (2020) developed the SC network with uncertainty. - For more than two authors

If author is mentioned at the end for the citation, use the below format:

SC network was developed with uncertainty (Rener 2020). - For single author
SC network was developed with uncertainty (Rener and Ali 2020). - For two authors
SC network was developed with uncertainty (Rener et al. 2020). - For more than two authors

Full details should be provided at the end for Reference Section:

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Rener, A. and Ali, A., Optimization of the supply chain network using uncertainty, *International Journal of Industrial Engineering and Operations Management*, vol. xx, no. xx, 2020.
Rener, A., Ali, A. and Reimer, D., Optimization of the supply chain network using uncertainty, *International Journal of Industrial Engineering and Operations Management*, vol. xx, no. xx, 2020.

References Guidelines

- References title – 12 font with bold and left justification
- References texts – 10 font
- Use single space
- No empty line between two references
- No numbering should be used for references
- Last name and year should be used for any reference citation. Last name and year should be used for single author and double authors. For more than two authors, last name of the first author and “et al.” with year should be used. For examples: Reimer (2009), (Reimer 2009), Reimer and Ali (2009), (Reimer and Ali 2009), Reimer et al. (2009) and (Reimer et al. 2009). Number is not allowed in the reference citation.
- All references must be cited in the paper.
- Journal and conference names should in italic.
- Title of the book should be in italic.
- All lines after the first line of references list should be indented one-fourth (1/4) inch from the left margin. This is called hanging indentation.
- Below are some examples.

For journal papers

<u>One author</u>

Last name, first initial., Title of the paper, *Journal Name*, vol., no., pp., year.

Lee, J., Measurement of machine performance degradation using a neural network model, *International Journal of Modelling and Simulation*, vol.16, no. 4, pp. 192-199, 1996.

Two author (more authors will have similar format with addition authors)

Last name, first initial. and last name, first initial., Title of the paper, *Journal/Conference Name*, vol., no., pp, year.

Cook, V. and Ali, A., End-of-line inspection for annoying noises in automobiles: trends and perspectives, *Applied Acoustic*, vol. 73, no. 3, pp. 265-275, 2012.
Rahman, M. A., Sarker, B. R. and Escobar, L. A., Peak demand forecasting for a seasonal product using Bayesian approach, *Journal of the Operational Research Society*, vol. 62, pp. 1019-1028, 2011.
Reimer, D., and Ali, A., Engineering education and the entrepreneurial mindset at Lawrence Tech, *Proceedings of the International Conference on Industrial Engineering and Operations Management*, Istanbul, Turkey, July 3 – 6, 2012.
Shetty, D., Ali, A. and Cummings, R., A model to assess lean thinking manufacturing initiatives, *International Journal of Lean Six Sigma*, vol. 1, no. 4, pp. 310-334, 2010.

For conference papers

One author

Last name, first initial. Title of the paper, *Conference Name*, pp. xx-xx, city, country, dates, year.

Reimer, D., Entrepreneurship learning experiences, *Proceedings of the 12th Annual International Conference on Industrial Engineering and Operations Management*, pp. xx-xx, Istanbul, Turkey, March 7-10, 2022.
O'Neill, E., Introduction to Improving Adaptive Snow-Sports through Engineering Design, Ergonomic Form and Function, *Proceedings of the 4th North American International Conference on Industrial Engineering and Operations Management*, pp. 1486-1487, Toronto, Canada, October 23-25, 2019.

Two author (more authors will have similar format with addition authors)

Last name, first initial. and last name, first initial., Title of the paper, *Conference Name*, pp. xx-xx, city, country, dates, year.

Aghimien, D. and Aigbavboa, C., Performance of selected funding schemes used in delivering educational buildings in Nigeria, *Proceedings of the 3rd North American International Conference on Industrial Engineering and Operations Management*, pp. 108-119, Washington DC, USA, September 27-29, 2018.
Motsepe, Y. A., Makhanya, B. and Pretorius, J.H.C., Exploring the impact project definition readiness index on capital projects for coal-fired power station projects, *Proceedings of the First African International Conference on Industrial Engineering and Operations Management*, pp. 638-649, Pretoria, South Africa, October 29 – November 1, 2018.

For books

Last Name, First Initial. and Last Name, First Initial., *Title of the book*, edition, publisher, year.

Chang, T., Wysk, R. and Wang, H., *Computer-Aided Manufacturing*, 3rd Edition, Prentice Hall, New Jersey, 2006.

For website

Last Name, First Initial. and Last Name, First Initial., Article title article title article title article title article title, Available: http://www.ieomsociety.org/Details.aspx?id=xxx, May 21, 2019. If the author's name is not listed, begin with the title of the article for citation.

Name of the website, Available: http://www.ieomsociety.org/Details.aspx?id=xxx, Accessed on May 21, 2019.

For Newspaper

Last Name, First Initial. and Last Name, First Initial., Newspaper article title, date of publication, URL. Accessed Month Day, Year. If the author's name is not listed, begin with the title of the newspaper article for citation.

All references should be organized alphabetically

References

Aghimien, D. and Aigbavboa, C., Performance of selected funding schemes used in delivering educational buildings in Nigeria, *Proceedings of the 3rd North American International Conference on Industrial Engineering and Operations Management*, pp. 108-119, Washington DC, USA, September 27-29, 2018.

Ali, A. and Rener, A., Optimization of the supply chain network using uncertainty, *International Journal of Industrial Engineering and Operations Management*, vol. xx, no. xx, year.

Chang, T., Wysk, R. and Wang, H., *Computer-Aided Manufacturing*, 3rd Edition, Prentice Hall, New Jersey, 2006.

Cook, V. and Ali, A., End-of-line inspection for annoying noises in automobiles: trends and perspectives, *Applied Acoustic*, vol. 73, no. 3, pp. 265-275, 2012.

Krstovski, S., Quality index, www.ieomsociety.org/newsletter/. Accessed May 21, 2020.

Lee, J., Measurement of machine performance degradation using a neural network model, *International Journal of Modelling and Simulation*, vol.16, no. 4, pp. 192-199, 1996.

Masud, A.S.M. and Whitman, L.E., Educating future engineers: An example, *Proceedings of the First International Conference on Industrial Engineering and Operations Management*, pp. 175-179, Dhaka, Bangladesh, January 9 – 10, 2010.

Motsepe, Y. A., Makhanya, B. and Pretorius, J.H.C., Exploring the impact project definition readiness index on capital projects for coal-fired power station projects, *Proceedings of the First African International Conference on Industrial Engineering and Operations Management*, pp. 638-649, Pretoria, South Africa, October 29 – November 1, 2018.

O'Neill, E., Introduction to Improving Adaptive Snow-Sports through Engineering Design, Ergonomic Form and Function, *Proceedings of the 4th North American International Conference on Industrial Engineering and Operations Management*, pp. 1486-1487, Toronto, Canada, October 23-25, 2019.

Rahman, M. A., Sarker, B. R. and Escobar, L. A., Peak demand forecasting for a seasonal product using Bayesian approach, *Journal of the Operational Research Society*, vol. 62, pp. 1019-1028, 2011.

Reimer, D., and Ali, A., Engineering education and the entrepreneurial mindset at Lawrence Tech, *Proceedings of the International Conference on Industrial Engineering and Operations Management*, Istanbul, Turkey, July 3 – 6, 2012.

Reimer, D., Entrepreneurship learning experiences, *Proceedings of the 12th Annual International Conference on Industrial Engineering and Operations Management*, pp. xx-xx, Istanbul, Turkey, March 7-10, 2022.

Reimer, D., Entrepreneurship, innovation and experiential learning, Available: http://www.ieomsociety.org/id=xxx, May 21, 2019.

Rener, A., Ali, A. and Reimer, D., Optimization of the supply chain network using uncertainty, *International Journal of Industrial Engineering and Operations Management*, vol. xx, no. xx, year.

Rener, A., Optimization of the supply chain network using uncertainty, *International Journal of Industrial Engineering and Operations Management*, vol. xx, no. xx, year.

Retnanto, A., Parsaei, H.R. and Parsaei, B., The role of program advisory board in elevating the degree program content *Proceedings of the 9th International Conference on Industrial Engineering and Operations Management,* pp. 739-741, Bangkok, Thailand, March 5-7, 2019.

Shetty, D., Ali, A. and Cummings, R., A model to assess lean thinking manufacturing initiatives, *International Journal of Lean Six Sigma*, vol. 1, no. 4, pp. 310-334, 2010.

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

- Include bio of each author at the end of the paper

- Limited to 250 words

Biographies

Dr Felix Kin Peng Hui is an Associate Professor of Engineering Management and an Academic Specialist in the Department of Infrastructure Engineering, Faculty of Engineering and IT, University of Melbourne. He is also the Program Director/Academic Coordinator for the Master of Engineering Management program and the Engineering Business specialisation for postgraduate masters degrees. Dr Hui is an experienced engineer with over 25 years of industry experience in managing continuous improvement projects, factories, and business units. He has held senior management positions in a range of manufacturing industries which includes machine tools, precision engineering and semiconductors. He has also consulted to organisations seeking continuous improvements to optimise their operational efficiency. His research interests are in the areas of operational process optimisation, operational efficiency, lean systems, organisational development and team dynamics in engineering projects. He is currently a lead investigator on several government funded projects which includes mega-infrastructure projects research, prefabricated modular construction research, next generation buildings with Building 4.0 CRC and on CRC-P projects involving end-of-life treatment processes. Dr Hui is a registered Professional Engineer (Singapore), an ASEAN Chartered Professional Engineer and a Fellow of Institute of Managers and Leaders.

Md Mizanur Rahman is currently a Senior Lecturer at Department of Thermo-Fluids, School of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Johor Bahru, Malaysia. Before joining at UTM, he has served as a Postdoctoral Researcher at Aalto University School of Engineering, Finland. He received his Ph.D. in Mechanical Engineering, under the research field of Energy Economics and Power plant Engineering from Aalto University, Finland. He received an M.Sc. in Sustainable Energy Engineering from Royal Institute of Technology KTH, Sweden, and a B.Sc. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh. His research interests include thermodynamics, energy economics, energy management, energy efficiency and system, sustainable and renewable energy, energy system modelling, Life-Cycle Analysis, distributed power generation, multicriteria evaluation etc. He has several publications in International referred journals in energy engineering domain. He also has quite a long (13 years) working experiences in the industry, laboratory, and training institute. He has published several scientific publications in the international refereed journals in energy engineering domain. He is a Certified Energy Manager.

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.

Donald M. 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.