



SDI Review Form 1.6

| | |
|--------------------------|--|
| Journal Name: | Advances in Research |
| Manuscript Number: | 2014_AIR_15691 |
| Title of the Manuscript: | COMPUTER AIDED SYSTEM FOR UNI-FUNCTIONAL JOB SHOP MACHINE SELECTION BASED ON TECHNOLOGY ADVANCEMENT. |
| Type of the Article | Original Research Article |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
|--|---|--|
| <u>Compulsory</u> REVISION comments | <p>As for the article, authors dealt with actual topic of research because there is many little and middle industrial plants in the world for which the software could be useful.</p> <p>Abstract, Introduction and Conclusions are based on actual and presented facts. References are relevant and adequate. In my opinion, authors should a little bit more describe and concretize all types of cost that were used in the article, as are fixed cost, variable cost, tooling up cost, etc. The authors should also remove all shortcoming listed below.</p> | |
| <u>Major</u> REVISION comments | <p>Next comments are ordered by line numbers that are presented in the article for review. I divided them in two categories.</p> <p><u>Formal mistakes:</u></p> <p>row 29 - Is "(1)" a reference to literature? If yes, so this reference differs from other references mentioned in next text. The same problem is in the row 31 - there is the reference (2).</p> <p>row 43 - connection of the words "determinedLathe" is not OK</p> <p>row 181, 182 - the text field is outside the diagram</p> <p>row 346 - the expression "modelsforuni-functional" is not OK</p> <p>row 350 - the comma between the words "has, developed" is unnecessary</p> <p>row 351 - the spaces should be before the words Aid ... and Considering (row 352)</p> | |



SDI Review Form 1.6

| | | |
|--|--|--|
| | <p><u>Significant mistakes</u></p> <p>row 73 - it is not suitable to use the designation for dividing there " $f_1(x): (T.C)_2$ "</p> <p>rows 73 - 230 - the abbreviations are very confusing! For example:</p> <ul style="list-style-type: none"> ▪ the Total cost per time period is once marked "TC", sometimes it is "T.C", but in the row 99 - TC means Tooling up costs; on the other hand, in the row 96 Tooling up cost is marked "Tc" ▪ row 82 - Fixed cost are marked "FC", but in rows 87, 92 ... it is called "Fc" and in the row 95 - it is "fc" ▪ also Variable cost is called once "VC", in another text it is "Vc", ... etc. <p>row 86 - it is not true that Fc_2=fixed cost for 1st Machine!</p> <p>rows 97 - the parenthesis "] " after Set-up labour rate is unnecessary - then the verbal description does not match the equation (7); ... also the parentheses "()" in the expression "Depreciation and other expense/hr" are unnecessary, because there are only sum operations, or operations that use math logic. It holds in rows 111 and 112, respectively in rows 120 and 121, too.</p> <p>rows 78 - 88 and 114 -117 - What is difference between "Break-Even point (B.E.P)" and "Q - break even quantity (BEQ)" or "N"? The equations (5) and (9) are the same in my opinion.</p> | |
|--|--|--|



SDI Review Form 1.6

| | | |
|---|--|--|
| <u>Optional/General</u> comments | <p>I appreciate the efforts of authors to design the software for decision making what the machine will give optimum production cost when considering the alternatives that are available based on technology advancement of machines.</p> <p>On the other hand I think that it is mistake that authors did not consider with the number of machines in the workshop in their software. Only low number of the workshops have just one Manually operated Lathe (MO), one Semi- Automatic Lathe (SAM), or one Automatic Lathe (AM).</p> | |
|---|--|--|

Reviewer Details:

| | |
|----------------------------------|---|
| Name: | Katarina Monkova |
| Department, University & Country | Department of technical systems design, Technical University in Kosice, Slovakia |