

- اساليب تحليل البيانات الكيفية و الكمية
- الاحصاء الوصفي
- الاحصاء الاستدلالي
- اختيار الاساليب الاحصائية
- دلالة النتائج الاحصائية

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|                                         |                          |                                                           |                                                                                                                                                                                                                                                                                                                                                                             |
| Partial Correlation<br>Part correlation | Canonical<br>Correlation | Multiple Linear<br>regression<br>Discriminate<br>Function | Person's<br>Product-<br>Moment<br>Correlation<br><br>Rank-<br>Differences<br>Correlation<br><br>Sperman Rho<br><br>Kendall's tau<br><br>Biserial<br>Correlation<br><br>Widespread<br>Biserial<br>Correlation<br><br>Point-Biserial<br>Correlation<br><br>Tetrachoric<br>Correlation<br><br>Phi<br>Coefficient<br><br>Contingency<br>Coefficient<br><br>Correlation<br>ratio |

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|                                                                                                                                                                                                                                                                          |  |  |
| Pearson product Moment Correlation Coefficient (r.)<br>- ( ) - .                                                                                                                                                                                                         |  |  |
| ( (η ) Correlation Ratio                                                                                                                                                                                                                                                 |  |  |
| Spearman's Rank Correlation<br>Coefficient<br>( ) Kedall's Tau Rank Coefficient<br>.(<br>Gooddman and Kruskal's<br>Coefficient of Ordinal Association<br>.Kendall's Coefficient of Concordance<br>. Kendall's Coefficient of Consistency                                 |  |  |
| λ<br>(<br>معامل فاي ، معامل الاقتران ليول، معامل التجمع ليول (عندما يشمل كل متغير على قسمين).<br>معامل الاقتران لبيرسون.<br>معامل الاقتران لتشويرو.<br>معامل التوافق -التصاحب- Contingency عندما يكون أحد المتغيرين أو كليهما متعدد الفئات.<br>: Tetrachoric Coefficient |  |  |

|                                                                                                            |  |  |
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| <p> <math>r_{\text{Rank Biserial}} = \frac{r_{\text{Spearman}} - \frac{1}{2}}{1 - \frac{1}{2}}</math> </p> |  |  |
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| <p>)</p> <p>.</p> <p>. Point Biserial Correlation</p> <p>) Biserial Correlation</p> <p>..</p>                                                                              |  |                                 |
| <p>Jaspen Coefficient of Multi-</p> <p>) serial Correlation</p> <p>.(</p> <p>Biserial Correlation</p>                                                                      |  |                                 |
| <p>.</p> <p>)</p> <p>.(</p> <p>.(</p> <p>)</p>                                                                                                                             |  | <p>( - )</p> <p>Dichotomous</p> |
| <p>Point Biserial Coefficient</p> <p>) Correlation</p> <p>.(</p> <p>Fourfold Phi Correlation ( )</p> <p>.(</p> <p>)</p> <p>.Tetrachonic Correlation</p> <p>.(</p> <p>)</p> |  |                                 |
| <p>)</p> <p>.(</p>                                                                                                                                                         |  |                                 |
| <p>)</p> <p>.(</p>                                                                                                                                                         |  |                                 |
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|  | Path<br>.Coefficients    |  |
|  | Part ( )<br>.Correlation |  |

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|--|-----------------------|--|
|  | .Partial Correlation  |  |
|  | Canonical Correlation |  |

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|                   |                         |           |                                                                                                   |
|                   |                         |           | Critical ratio<br>(z)<br><br>t-test                                                               |
| Uncorrected Means | Mann-Whitney U<br>test  |           | Analysis of<br>variance (One way<br>Anova ).<br><br>Analysis of<br>Variance<br>(Two way<br>Anova) |
|                   |                         | Variances |                                                                                                   |
| Correlated Means  | Wilcoxon signed<br>test | F         |                                                                                                   |

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|--|------------------------|--|-------------------------------------------------------------------------|
|  |                        |  | Duncan's :<br>Multiple-<br>range.<br><br>Scheffe's<br>test.<br><br>Tuky |
|  | Kruskal-Wallis<br>test |  | Analysis of<br>Covariance<br>(Anacova)                                  |
|  |                        |  | Trend<br>Analysis                                                       |
|  |                        |  | Confidence<br>limits                                                    |

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| ( )                                                                     |                                          |                                          |  |  |
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|                                                                         |                                          |                                          |  |  |
| t-test                                                                  | Smirnov                                  |                                          |  |  |
| . t-test                                                                | Man Whitney U-Test.<br>Median Test       | Fisher exact test                        |  |  |
| . t-test<br>Randomization Test.<br>Walsh Test.                          | Wilcoxon Signed Rank Test.<br>Sign Test. |                                          |  |  |
| Analysis of Variance (One Way Anova).<br>.                              | Kruskal Walliss<br>Median test           |                                          |  |  |
| Anova (one way)<br><br>Duncan's Multiple-range, Scheffe's , test., Tuky | Friedman Test                            | Chochran O test<br>Friedman Test<br>.( ) |  |  |
| Factorial Analysis<br><br>2 way Anova<br>: .<br>Acnova                  |                                          |                                          |  |  |