Glossary

1. **Estimator**
   An approximate calculation or judgement; roughly calculate or judge the value.

2. **Properties**
   A Characteristic of something; things belong to someone or something.

3. **Relative efficiency**
   It is a measure of time, cost and effort.

4. **Unbiasedness**
   It means impartial; there is no upward or downward bias; without bias or prejudice.

5. **Consistency**
   Acting or done in the same way over time, especially so as to be fair or accurate.

6. **Asymptotical**
   It means not to meet or not falling together.

7. **Sufficiency**
   Condition or quality of being sufficient; an adequate amount.

8. **Parameter**
   A measurable or quantifiable characteristic of a system; a quantity which is fixed for the case in question but may vary in other cases.

9. **Variance**
   The fact or quality of being different or inconsistent; a discrepancy between two statements.

10. **Summation**
    Action of summing up; a sum total.

11. **Sigma**
    The summation operator; it is used to add all parts, in sequence, to give a total made up of every number in the sequence.

12. **Chi-square**
    Chi-squared distribution with *k* degrees of freedom is the distribution of a sum of the squares of *k* independent standard normal random variables.

13. **Degree**
    The amount, level, or extent to which something happens or present.

14. **Probability**
    The extent to which something is probable.

15. Expected value

The expected value of a random variable is the weighted average of all possible values that this random variable can take on.