

## BRIEF TIMELINE FOR HISTORY OF OPERATIONS RESEARCH

- 1600's Expected Values (Blaise Pascal); Newton's Method for finding a minimum of a function (Isaac Newton)
- 1700's Bayes Rule (Thomas Bayes); Least Squares (Carl F. Gauss)
- 1826 Solution of linear equations (Carl F. Gauss)
- 1890 Scientific Management (Frederick W. Taylor- known as the father of Scientific Management – always looking for the “one best way”)
- 1900 Gantt Charts (Henry Gantt, Frederick W. Taylor)
- 1902 Solution of inequality systems (J. Farkas)
- 1936 The term “operational research” first used by British military applications
- 1939 Optimality condition for constrained problems (W. Karush)
- 1941 Transportation Problem (F. L. Hitchcock)
- 1942 UK & US Navy and Air Force start OR groups
- 1944 Utility Theory (John von Neumann, Oskar Morgenstern)
- 1944 Exponential Smoothing (R. Brown)
- 1946 *Methods of Operations of Operations Research* OEG Report (Philip M. Morse & G. E. Kimball) – classified until 1951
- 1947 Linear programming model (Simplex method) (George B. Dantzig)
- 1947 *Theory of Games & Economic Behavior* (von Neumann & Morgenstern)
- 1948 First course in OR at MIT
- 1949 Monte Carlo simulation (S. M. Ulam, J. von Neumann)
- 1950 Shortest-path problem
- 1950 First OR journal: Operations Research Quarterly (UK) – OR in US in 1952
- 1951 *Nonlinear Programming* (optimality condition for constrained problems) (H. Kuhn & A. Tucker)
- 1960 Decision Trees

some web sites <http://www.lionhrtpub.com/orms/orms-10-02/historysb1.html>  
[http://www.mgmtguru.com/mgt301/301\\_Lecture1Page8.htm](http://www.mgmtguru.com/mgt301/301_Lecture1Page8.htm)