

Quantitative Analysis for System Applications

Data Science and Analytics Tools and Techniques

As data holdings get bigger and questions get harder, data scientists and analysts must focus on the *systems*, the tools and techniques, and the disciplined process to get the correct answer, quickly! Whether you work within industry or government, this book will provide you with a foundation to successfully and confidently process large amounts of quantitative data.

Here are just a dozen of the many questions answered within these pages:

1. What does quantitative analysis of a system really mean?
2. What is a system?
3. What are big data and analytics?
4. How do you know your numbers are good?
5. What will the future data science environment look like?
6. How do you determine data provenance?
7. How do you gather and process information, and then organize, store, and synthesize it?
8. How does an organization implement data analytics?
9. Do you really need to think like a Chief Information Officer?
10. What is the best way to protect data?
11. What makes a good dashboard?
12. What is the relationship between eating ice cream and getting attacked by a shark?

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About Dan

Daniel A. McGrath, Ph.D., is the President of Llano Estacado Management Science Co. He has over 35 years of experience analyzing big data sets with many quantitative and statistical tools and software packages. He has a diversity of degrees: BA in Geography and Geosciences, MS in Soil Science, PhD in Systems and Engineering Management with all being from Texas Tech. He has worked extensively in environmental, project management, continuous improvement, business intelligence, and financial job functions. In addition, he has been a Project Management Professional and a Six Sigma Master Black Belt. He lives in Texas and travels widely, helping customers find their lost cities of gold!

