Layout Of Dissertation

Current Layout

1. Creating a Functional Variable
   1. Introducing Example
   2. Basis Functions
      1. Fourier Series Functions
         1. Explain What They Are
         2. Explain Use in FDA
         3. How To Render
      2. B-Spline Functions
         1. Explain What They Are
         2. Example Of Finding Them
         3. Explain Use in FDA
         4. How to Render
      3. Choosing Number of Basis Functions
   3. Finding Coefficients
      1. Regressions Smoothing
      2. Smoothing using a Roughness Penalty
         1. Choosing an Appropriate Linear Differential Operator
         2. Choosing An Appropriate Smoothing Parameter

New Layout

1. Creating a Functional Variable
   1. Introducing Simple Example
   2. Basis Functions
      1. Fourier Series Functions
         1. Explain What They Are
         2. Explain Use in FDA
      2. B-Spline Functions
         1. Explain What They Are
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      3. Choosing Number of Basis Functions
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      1. Regressions Smoothing
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         1. Choosing an Appropriate Linear Differential Operator
         2. Choosing An Appropriate Smoothing Parameter
2. Some New Examples
   1. Periodic Data
   2. Positive and Monotone Data
3. Assessing the Fit to The Data
   1. Dis
4. Appendix
   1. B-Spline Function Example OF Finding Them