

Seminar Series in

# Statistics, Modeling and Computational Applications

Joint organization of Numerical Analysis, Probability and Statistics  
And Signal Processing and Data Analysis CMUP Areas

## Numerical solutions of singularly perturbed boundary value problems using Bernstein polynomials

Meltem Adiyaman ([meltem.evrenosoglu@deu.edu.tr](mailto:meltem.evrenosoglu@deu.edu.tr)) , Şennur Somali  
Departamento de Matemática, Dokuz Eylul Universitesi, Turquia

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In this work, singularly perturbed two-point boundary value problems are solved by applying least squares methods based on Bézier control points.

Numerical experiments are presented to illustrate the efficiency of the proposed method.