

On some papers dedicated to Len Bos.

DWCAA 2024,
Dedicated to Len Bos in occasion of his retirement
Alba di Canazei (TN) - Italy, 09-13 September 2024

We have dedicated a special issue of **Dolomites Research Notes on Approximation** to Len Bos, on the occasion of his 70th birthday.

The issue, whose editors are F. Dell'Accio, M. Vianello and myself (thanks to G. Santin for helping us in the publishing process), has **many contributors that are deeply connected with Len**, whose commitment to mathematics is an inspiration for their research.

Personally I am happy to have shared ideas with him on more **simpler subjects**, from sport to politics. Of course, all the time I hope that Italy beats the Netherlands or Canada!

This special issue contains 12 papers dealing with **different topics**, mainly from approximation theory but also including more philosophical insights, as in the work by Jean-Paul Calvi. We point out that it is freely available at

<https://drna.padovauniversitypress.it/issue/17/3>.



Figure 1: On the left: Len Bos and Jean-Paul Calvi looking at the Dolomites in search for new and higher gardens. On the right: Shayne Waldron, Len Bos and Vilmos Totik in New Zealand.

Jean-Paul Calvi

The Knowledge gardener

Len Bos, Michael A. Slawinski, Raphaël Slawinski, Theodore Stanoev

On minimizing cyclists' ascent times

Shayne Waldron

Multivariate Lagrange interpolation and polynomials of one quaternionic variable

Norman Levenberg, Franck Wielonsky

Density of measures related to orthogonal polynomials

Stefano De Marchi, Francesco Dell'Accio, Federico Nudo

A mixed interpolation-regression approximation operator on the triangle

Alvise Sommariva, Marco Vianello

Polynomial-free unisolvence of polyharmonic splines with odd exponent by random sampling

Roberto Cavoretto, Alessandra De Rossi, Adeeba Haider, Sandro Lancellotti

Comparing Deterministic and Statistical Optimization Techniques for the Shape Parameter Selection in RBF Interpolation

Chiara Fuda, Andriamahanina Ramanantoanina, Kai Hormann

A comprehensive comparison of algorithms for evaluating rational Bézier curves

Sione Ma'u

On the approximation properties of fast Leja points

Leokadia Białas-Cieź, Mateusz Suder

Note on admissible meshes on ball and simplex via Dubiner metric

Ludovico Bruni Bruno, Federico Piazzon

A pluripotential theoretic framework for polynomial interpolation of vector-valued functions and differential forms

Mirośław Baran, Leokadia Białas-Cieź

Around some extremal problems for multivariate polynomials

Another dedication to Len comes from Volume 1 No. 2 of *Journal of Approximation Software*.

JAS aims to publish well-structured accompanying *articles to open-source software*, on all aspects of approximation theory and applications in its broadest sense.

A key-point of JAS is to *thoroughly test the software* as well as to illustrate its usage.

This special issue, having as editors R. Cavoretto, A. De Rossi, F. Dell'Accio, M. Vianello and myself (thanks to A. Viscardi for helping us in the publishing process), contains four papers and is available open-source at

<https://ojs.unito.it/index.php/JAS/issue/view/849>.

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Len giving an unusual talk, at a Dolomites Workshop dinner.



Len walking towards the Sella Group in the Dolomites.

Preface of JAS-01-02-2024

The Editors-in-Chief of JAS

 [PREFACE JAS-01-02-2024.PDF](#)

The applicability of equal area partitions of the unit sphere

Paul Leopardi

 [JAS-01-02-2024-01.PDF](#)

CPOLYMESH: Matlab and Python codes for complex polynomial approximation by Chebyshev admissible meshes

Alvise Sommariva, Marco Vianello, Dimitri Jordan Kenne

 [JAS-01-02-2024-02.PDF](#)

Exponential integrators for a mean-field selective optimal control problem

Marco Caliari, Giacomo Albi, Elisa Calzola, Fabio Cassini

 [JAS-01-02-2024-03.PDF](#)

Multinode Shepard method: the MATLAB Implementation

Filomena Di Tommaso, Francesco Dell'Accio, Francesco Larosa

 [JAS-01-02-2024-04.PDF](#)

As editor I point out how difficult it was for us to retrieve pictures of Len for both the journals, but in the end we were able to sort it out.

In case you have photos of Len, please send them to

`alvise@math.unipd.it`

so that we can make a little booklet for him, to remember these days!