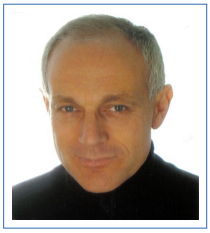
Department of Mathematics "Tullio Levi-Civita"
Via Trieste 63, Padova, I-35121
(+39) 3288606226
Office: (+39) 0498271313
Office: (+39) 0498271499
stefano.demarchi@unipd.it
www.math.unipd.it/~demarchi



Stefano De Marchi

Publications list

Papers in Refereed Journals

Note: in red are highlighted the 5 most cited papers in SCOPUS. I added the SJR 2019 class of the journal, when available.

1. Doria, A., Angrilli, F. and De Marchi, S., *Inverse kinematics robot calibration by splines functions*. Appl. Math. Modelling, Vol. 17(1993), 492–498. *(Q1) for Applied Mathematics*
2. De Marchi, S., Morandi Cecchi, M., *The polynomial approximation in the finite element method*. J. Comp. Appl. Math., Vol. 57(1995), 99–114. *(Q2) for Applied Mathematics*
3. De Marchi, S., Morandi Cecchi, M., *Reference Functional and Characateristic Space for Lagrange and Bernstein Operators*. Approx. Theory & its Appl., Vol. 11(4)(1995), 6–14.
4. De Marchi S. , Vianello, M. *Peano's Kernel Theorem for vector-valued functions and some applications.* Numer. Func. Anal. Optim., 17 (1&2) (1996), 57–64. *(Q2) for Control and Optimization*
5. De Marchi S. , Vianello, M. *Peano's Kernel Theorem for Vector-Valued Functions II: A weak version in Normed Spaces.* Numer. Func. Anal. Optim., 18(1&2)(1997), 65–74. *(Q2) for Control and Optimization*
6. De Marchi, S., *On Computing derivatives for C^1 interpolation schemes: an optimization*. Computing, 60(1)(1998), 29–53. *(Q2) for Computational Mathematics*
7. Bos, L., De Marchi, S. *Limiting Values Under Scaling of Lebesgue Function for Polynomial Interpolation on Spheres*. J. Approx. Theory, 96(2)(1999), 366–377. *(Q2) for Analysis and Applied Mathematics*
8. Morandi Cecchi, M., De Marchi, S., Fasoli, D..: A Package for Representing C^1 interpolating surfaces: Application to the Lagoon of Venice's bed, Numer. Algorithms, 20(2-3) (1999), 197–215. *(Q1) for Applied Mathematics*
9. Bos, L., De Marchi, S. *Fekete points for bivariate polynomials restricted to $y = x^m$*. East J. Approx., 5(1)(2000), 1–12.
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14. Bos, L., De Marchi, S. *On the Limit Under Scaling of Polynomial Lagrange Interpolation on Analytic Manifolds*. Supp. Rend. Circolo Matematico di Palermo serie II, n. 68 (2002), 303–314. *(Q3) for Mathematics*
15. S. De Marchi *On optimal point locations for radial basis interpolation: computational aspects*, Rend. Sem. Mat. Torino, Vol. 61(3), 343-358 (2003). *(Q4) for Mathematics*
16. De Marchi, S. e Roveredo C. *On blossoming in integer Müntz spaces*, Int. Math. J. Vol. 5(1), 61–66

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17. De Marchi, S. *On Leja sequences: some results and applications*, Appl. Math. Comput. 152(3), 621–647 (2004). *(Q1) for Applied Mathematics*
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20. L. Bos, M. Caliari, S. De Marchi e M. Vianello *A numerical study of the Xu polynomial interpolation formula in two variables*, Computing, vol. 76(3-4), pp. 311-324 (2006). *(Q2) for Computational Mathematics*
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23. S. De Marchi e M. Morandi Cecchi *Polynomials arising in factoring generalized Vandermonde determinants III :computation of their roots*, Neural, Parallel and Sci. Comput., Vol. 14, pp. 25-38 (2006). *(Q4) for Applied Mathematics*
24. L. Bos, M. Caliari, S. De Marchi, M. Vianello e Y. Xu *Bivariate Lagrange interpolation at Padua points: the generating curve approach*, J. Approx. Theory, Vol. 143(1), pp. 15-25 (2006). *(Q2) for Applied Mathematics*
25. S. De Marchi e I. Raykov *Parametric method for global optimization in Hilbert Spaces*, J. Optim. Theory Appl. (JOTA), Vol. 130(3), pp. 411-430 (2006). *(Q1) for Control and Optimization*
26. M. Caliari, S. De Marchi, R. Montagna e M. Vianello *HYPER2D: a numerical code for hyperinterpolation at Xu points on rectangles*, Appl. Math. Comput., Vol. 183(1), pp. 1138-1147 (2006). *(Q1) for Applied Mathematics*
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28. De Marchi, S., *Matematics and Wine*. Appl. Math. Comput. 192, pp. 180-190 (2007). *(Q1) for Applied Mathematics*
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31. M. Caliari, S. De Marchi e M. Vianello, Bivariate Lagrange interpolation at the Padua points: computational aspects, J. Comput. Appl. Math., Vol. 221, pp. 284-292 (2008). *(Q2) for Applied Mathematics*
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35. S. De Marchi, M. Vianello and Y. Xu, New cubature formulae and hyperinterpolation in three variables, BIT Numerical Mathematics, Vol. 49(1) 2009, 55-73. *(Q2) for Applied Mathematics*
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50. S. De Marchi, M. Marchioro and A. Sommariva: Polynomial approximation and cubature at approximate Fekete and Leja points of the cylinder, Appl. Math. Comput. 218:21 (2012), pp. 10617-10629. *(Q1) for Applied Mathematics*
51. L. Bos, S. De Marchi, K. Hormann and J. Sidon: Bounding the Lebesgue constant of Berrut's rational interpolant at general nodes, J. Approx. Theory 169 (2013), pp. 7–22. *(Q2) for Applied Mathematics, Numerical Analysis*
52. S. De Marchi and G. Santin: A new stable basis for radial basis function interpolation, J. Comput. Appl. Math. 253 (2013), pp. 1–13. *(Q2) for Applied Mathematics*
53. S. De Marchi and M. Vianello: Polynomial approximation on pyramids, cones and solids of rotation, Dolomites Res. Notes Approx. 6 (2013), pp. 20–26. *(Q2) for Applied Mathematics*
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55. L. Bos, S. De Marchi and N. Levenberg: Fekete Type Points for Ridge Function Interpolation and Hyperbolic Potential Theory, Publ. Math. Inst. (Beograd), Vol. 110 (2014), pp. 41-48. *(Q3) for Mathematics*
56. S. De Marchi, A. Sommariva and M. Vianello: Multivariate Christoffel functions and hyperinterpolation, Dolomites Res. Notes Approx. 7 (2014), pp. 26–33. *(Q2) for Applied Mathematics*
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67. S. De Marchi and A. Kroó: On multivariate Marcinkiewicz–Zygmund type inequalities , Acta Mathematica Hungarica 151(1) (2018), pp.69–89. *(Q2) for Mathematics*
68. S. De Marchi and G. Elefante: Quasi-Monte Carlo integration on manifolds with mapped low-discrepancy points and greedy minimal Riesz s-energy points, Appl. Numer. Math.,127(5) (2018), pp. 110-124. *(Q1) for Applied Mathematics*
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72. C. Bandiziol and S. De Marchi: "On the Lebesgue constant of the trigonometric Floater-Hormann rational interpolant at equally spaced nodes", Dolomites Res. Notes Approx. 12 (2019), pp. 51-67. *(Q2) for Applied Mathematics*
73. M. Buhmann, S. De Marchi and E. Perracchione: " Analysis of a new class of rational RBF expansions ", IMA J. Num. Analysis, online `https://doi.org/10.1093/imanum/drz015` (2019). *(Q1) for Applied Mathematics*
74. S. De Marchi and M. Klimek: "In the footsteps of Copernicus: Padova and Uppsala", Irish Math. Soc. Bulletin 83 (2019), pp 19-27.
75. R. Campagna, S. Cuomo, S. De Marchi, E. Perracchione and G. Severino: "A stable meshfree PDE solver for source-type flows in porous media", Appl. Num. Math. 149 (2019), pp. 30-42. *(Q1) for Applied Mathematics*
76. S. De Marchi, F. Marchetti and E. Perracchione: "Jumping with Variably Scaled Discontinuos Kernels (VSDK) ", BIT Numerical Mathematics 60 (2020), pp. 441-463. *(Q2) for Applied Mathematics*
77. S. De Marchi, F. Marchetti, E. Perracchione and D. Poggiali: "Polynomial interpolation via mapped bases without resampling", J. Comput. Applied Math 364 (2020), `https://doi.org/10.1016/j.cam.`

2019.112347. *(Q1) for Applied Mathematics*

78. S. De Marchi and H. Wendland: "On the Convergence of the Rescaled Localized Radial Basis Function Method ", Appl. Math. Letters 99 (2020), 105996. doi:10.1016/j.aml.2019.105996 *(Q1) for Applied Mathematics*
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81. Mohammad Karimnejad Esfahani, Abdolsadeh Neisy and Stefano De Marchi: "An RBF approach for oil futures pricing under the jump-diffusion model", J. Math. Modeling 9(1) (2021), pp. 81-92, doi:10.22124/JMM.2020.15948.1396. *(Q4) for Applied Mathematics*
82. S. De Marchi: "Mapped polynomials and discontinous kernels for Runge and Gibbs phenomena", SEMA SIMAI Springer Series, to appear. *(Q3) for Applied Mathematics*
83. S. De Marchi, F.Marchetti, E. Perracchione and D. Poggiali: "Multivariate approximation at fake nodes", Appl. Math. Comput. 391 (2021), doi:10.1016/j.amc.2020.125628. *(Q1) for Applied Mathematics*
84. Vahid Mohammadi, Mehdi Dehghan and Stefano De Marchi: "Numerical simulation of a prostate tumor growth model by the RBF-FD scheme and a semi-implicit time discretization", J. Comput. Appl. Math. 338(2021), 113314. doi:10.1016/j.cam.2020.113314. *(Q2) for Applied Mathematics*
85. S. De Marchi, G. Elefante, E. Perracchione and D. Poggiali, "Quadrature at fake nodes", Dolomites Res. Notes on Approx., vol.14 (2021), Special Issue MATA2020, p.39-45 *(Q2) for Mathematics*
86. D. Poggiali, D. Cecchin, C. Campi and S. De Marchi: "Oversampling errors in multimodal medical imaging are due to the Gibbs effect", Mathematics. 2021; 9(12):1348. https://doi.org/10.3390/math9121348 *(Q2) for Mathematics*

Summary of paper's classification by SJR

Q1	35
Q2	36
Q3	3
Q4	3
Other	9
Total	86

Paper in Proceedings/Book Chapters

87. De Marchi S., Vianello, M. and Zanovello, R.: *Splitting Functions and Numerical Analysis of WR-type Methods and Stationary Problems*, in Mathematics of Computation 1943-1993: a half-century of computational mathematics, W. Gautschi (Ed.), AMS series in *Symposia in Applied Mathematics*, (1994), 281–285.
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89. De Marchi, S., Morandi Cecchi, M.: *Can irregular subdivisions preserve convexity ?* , in Approximation Theory, Wavelets and Applications, S.P. Singh (Ed.), Kluwer, (1995), 325–334.
90. Morandi Cecchi, M., De Marchi, S., Secco, E.: *Un modello Idrodinamico per lo studio della Laguna di Venezia*, Proocedings of the Conference "Sistema Lagunare Veneziano", Istituto Veneto di Lettere, Scienze e Arti, Vol. 2, pp. 815–838, 2000.
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93. De Marchi, S. and Vianello M.: *Fast evaluation of descrete integral operators by Chebyshev and Leja polynomial approximation* , "Constructive Function Theory", Varna 2002 (B. Bojanov, Ed.), DARBA, Sofia, pp.347-353 (2003).
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98. M. Caliari, S. De Marchi, A. Sommariva and M. Vianello: *A numerical code for fast interpolation and cubature at the Padua points*. Proceedings of the 9th CMMSE (Gijon, Spain, July 2009), Vol. I, p. 218-228 Editors: P. Alonso, S. Oharu, E. Venturino and B. A. Wade.
99. R. Cavoretto, S. De Marchi, A. De Rossi, E. Perracchione and G. Santin: *RBF approximation of large datasets by partition of unity and local stabilization*, Proceedings of CMMSE 2015, Vol. I-II-III-IV, pp. 317–326.
100. S. De Marchi, F. Piazzon, A. Sommariva and M. Vianello: *Polynomial Meshes: Computation and Approximation*, Proceedings of CMMSE 2015, Vol. I-II-III-IV, pp. 414–425.
101. S. De Marchi: *Trivariate polynomial approximation on Lissajous curves*, Dagsthul seminar 15251 report, p. 68, nr. 3.31.
102. R. Cavoretto, S. De Marchi et al.: *Approximating basins of attraction for dynamical systems via stable radial bases*, AIP Conference Proceedings, 1738, 390003 (2016); doi:10.1063/1.4952177
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105. L. Cadeddu, A. Cauli and S. De Marchi: *Mathematics and Oenology: exploring an unlikely pairing*, Handbook of the Mathematics of the Arts and Sciences", pp. 1-31, doi:10.1007/978-3-319-70658-0_67-1, Springer 2019. Ed. B. Sriraman.
106. D. Poggiali, D. Cecchin and S. De Marchi: A Kinetic Neural Network Approach for Absolute Quantification and Change Detection in Positron Emission Tomography, In MASCOT 2018 Proceedings - 15th Meeting on Applied Scientific Computing and Tools, Grid generation, Approximation and Visualization. In IMACS SERIES COMPUTATIONAL AND APPLIED MATHEMATICS - ISSN:1098-870X vol. 22 (2019), pp.91-100.
107. F. Marchetti, F. De Martino, M. Shamseddin, S. De Marchi and C. Brisken, "Variably Scaled Kernels Improve Classification of Hormonally-Treated Patient-Derived Xenografts," 2020 IEEE Conference on Evolving and Adaptive Intelligent Systems (EAIS), Bari, Italy, 2020, pp. 1-6, doi: 10.1109/EAIS48028.2020.9122767.
108. S. De Marchi, W. Erb, E. Francomano, F. Marchetti, E. Perracchione and D. Poggiali, "Fake Nodes approximation for Magnetic Particle Imaging," 2020 IEEE 20th Mediterranean Electrotechnical Conference (MELECON), Palermo, Italy, 2020, pp. 434-438, doi: 10.1109/MELECON48756.2020.9140583.

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109. Proceedings of the First Dolomites Workshop on Constructive Approximation and Applications. Held in Alba di Canazei, September 4–8, 2006. Numer. Algorithms, Vol. 45 (1-4) (2007). Guest editors: Stefano De Marchi; Michela Redivo-Zaglia and Marco Vianello.
110. Proceedings of the Second Dolomites Workshop on Constructive Approximation and Applications. Held in Alba di Canazei, September 4–8, 2009. Numer. Algoriths, Vol. 55 (2-3) (2010). Guest editors: Brezinski, Claude; Carnicer, Jesus M.; De Marchi, Stefano; Iske, Armin; Redivo-Zaglia, Michela; Seatzu, Sebastiano; Venturino, Ezio; Vianello, Marco
111. Proceedings of the Second Dolomites Workshop on Constructive Approximation and Applications. Held in Alba di Canazei, September 4–8, 2009. Calcolo 48 (2011), no. 1, 1–3. Guest editors: Brezinski, Claude; Carnicer, Jesus M.; De Marchi, Stefano; Iske, Armin; Redivo-Zaglia, Michela; Seatzu, Sebastiano; Venturino, Ezio; Vianello, Marco
112. Proceedings of the Workshop *Kernel Functions and Meshless Methods*, held in Goettingen (Germany), 14–15 January 2011 honoring Prof. Robert Schaback in the occasion of his 65th birthday. Dolomites Res. Notes Approx. Vol. 4 (2011), pp. 63. Guest editors: Martin Buhmann, Stefano De Marchi and Gerlind Plonka.
113. Proceedings of the Workshop *Multivariate Approximation 2013*, held in Verona (Italy), 29-30 November 2013 honoring Prof. Len Bos in the occasion of his 60th birthday. Dolomites Res. Notes Approx. Vol. 7 (2014). Guest editors: Marco Caliari, Stefano De Marchi, Norm Levenberg and Marco Vianello.
114. Special Issue on *Ten Years of the Padua Points*, Dolomites Res. Notes Approx. Vol. 8 (2015). Guest editors: Stefano De Marchi and Marco Vianello.
115. Special Issue on *65th birthday of András Kroó*, Dolomites Res. Notes Approx. Vol. 12 (2019). Guest editors: Stefano De Marchi and Marco Vianello.
116. Special Issue on *MATA2020, Perugia 16-18 Jan 2020*, Dolomites Res. Notes Approx. Vol. 14 (2021). Guest editors: Laura Angeloni, Costanza Conti, Stefano De Marchi, Elisa Francomano and Gianluca Vinti .
117. Special Issue honoring Mirosław Baran , Dolomites Res. Notes Approx. Vol. 14 (2021). Guest editors: Leokadia Białas-Cież , Stefano De Marchi, Agnieszka Kowalska and Norm Levenberg.

Posters

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Summary of publications

Papers in referred journal	86
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Proceedings edited	9
Posters	12
Miscellanea	6
Relevant Tech. Reports	12
Monographs	2
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4. At the link `http://www.math.unipd.it/~demarchi/didattica.html` there are slides and pdf of the courses I thaught

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