

PERSONAL INFORMATION **Fernando Sansò**

 Milano, Italy

Date of birth 1945 | **Nationality** Italian

WORK EXPERIENCE

2012–current **President**

GReD srl

1981–2013 **Full Professor of Geodesy**

Politecnico di Milano, Italy

Professor Emeritus from 2013

1982–1992 **Director**

Institute of Surveying and Geodesy, Politecnico di Milano, Italy

2004–2012 **Chair of the Doctorate in Geodesy and Geomatic**

Politecnico di Milano, Italy

EDUCATION AND TRAINING

1967 **Physics Master Degree, Cum Laude**

University of Milan, Italy

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	B2	C1	C2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Research Fields

- Gravity Field Determination and Interpretation
- Boundary Value Problems for the Laplace Operator
- Satellite Geodesy
- Positioning (GNSS)
- Theory of Generalized Random Fields

Awards and Honors

- Bomford Prize of The International Association of Geodesy (IAG), 1979
- Premio Feltrinelli of the Accademia dei Lincei, 1986
- Doctor Honoris Causa in Geodesy, University of Copenhagen, 2002
- Doctor Honoris Causa in Geodesy, University of Thessaloniki, 2008
- Doctor Honoris Causa in Geodesy, University of Stuttgart, 2009

Memberships

- IAG President; then Honorary President, 1999-2003
- Member, Royal Astronomical Society (UK), from 2004
- Full Member of the Accademia dei Lincei, from 2007

PUBLICATIONS

- [1] Pavel Novak and Fernando Sansò. “On correct definition and use of normal heights in geodesy”. In: *Studia Geophysica et Geodaetica* (2024), pp. 1–24.
- [2] Fernando Sansò and Blažej Bucha. “Change of boundary: towards a mathematical foundation of global gravity models”. In: *Journal of Geodesy* 97.6 (2023), p. 63.
- [3] Stefano Caldera, Stefano Barindelli, Fernando Sansò, and Livia Pardi. “Monitoring of Structures and Infrastructures by Low-Cost GNSS Receivers”. In: *Applied Sciences* 12.23 (2022), p. 12468.
- [4] Fernando Sansò and Daniele Sampietro. *Analysis of the gravity field: Direct and inverse problems*. 2022.
- [5] Blažej Bucha and Fernando Sansò. “Gravitational field modelling near irregularly shaped bodies using spherical harmonics: a case study for the asteroid (101955) Bennu”. In: *Journal of Geodesy* 95 (2021), pp. 1–21.
- [6] Willi Freeden and Fernando Sansò. “Geodesy and Mathematics: interactions, acquisitions, and open problems”. In: *IX Hotine-Marussi Symposium on Mathematical Geodesy: Proceedings of the Symposium in Rome, June 18–22, 2018*. Springer International Publishing. 2021, pp. 219–250.
- [7] Mirko Reguzzoni, Daniela Carrion, Carlo Iapige De Gaetani, Alberta Albertella, Lorenzo Rossi, Giovanna Sona, Khulan Batsukh, Juan Fernando Toro Herrera, Kirsten Elger, Riccardo Barzaghi, et al. “Open access to regional geoid models: the International Service for the Geoid”. In: *Earth System Science Data Discussions* 2020 (2020), pp. 1–28.
- [8] F Sansò, M Capponi, and D Sampietro. “Up and down through the gravity field”. In: *Mathematische Geodäsie/Mathematical Geodesy: Handbuch der Geodäsie, herausgegeben von Willi Freeden und Reiner Rummel* (2020), pp. 91–144.
- [9] P Marchetti, D Sampietro, M Capponi, L Rossi, M Reguzzoni, F Porzio, and F Sansò. “Lithological constrained gravity inversion. A Bayesian approach”. In: *81st EAGE Conference and Exhibition 2019*. Vol. 2019. 1. European Association of Geoscientists & Engineers. 2019, pp. 1–5.
- [10] Fernando Sansò, Mirko Reguzzoni, Riccardo Barzaghi, et al. *Geodetic heights*. 2019.
- [11] Martina Capponi et al. “Very Improved KINematic Gravimetry: a new approach to aerogravimetry”. In: (2018).
- [12] Athanasios Dermanis and Fernando Sansò. “Different equivalent approaches to the geodetic reference system”. In: *Rendiconti Lincei. Scienze Fisiche e Naturali* 29 (2018), pp. 11–22.
- [13] Giuliano Francesco Panza, Antonella Peresan, Fernando Sansò, Mattia Crespi, Augusto Mazzoni, and Andrea Nascetti. “How geodesy can contribute to the understanding and prediction of earthquakes”. In: *Rendiconti Lincei. Scienze Fisiche e Naturali* 29 (2018), pp. 81–93.
- [14] Fernando Sansò. “Helmert’s Transform by Quaternions. A Revisitation”. In: *Quod Erat Demonstrandum—In Quest of the Ultimate Geodetic Insight; Special Issue for Professor Emeritus Athanasios Dermanis* (2018), pp. 37–49.
- [15] D Sampietro, M Capponi, AH Mansi, A Gatti, P Marchetti, and F Sansò. “Space-Wise approach for airborne gravity data modelling”. In: *Journal of geodesy* 91 (2017), pp. 535–545.
- [16] Stefano Caldera, Eugenio Realini, Riccardo Barzaghi, Mirko Reguzzoni, and Fernando Sansò. “Experimental study on low-cost satellite-based geodetic monitoring over short baselines”. In: *Journal of Surveying Engineering* 142.3 (2016), p. 04015016.
- [17] A Gatti, M Reguzzoni, F Migliaccio, and F Sansò. “Computation and assessment of the fifth release of the GOCE-only space-wise solution”. In: *The 1st joint commission 2 and IGFS meeting*. 2016, pp. 19–23.

- [18] Lorenzo Rossi, Mirko Reguzzoni, D Sampietro, and F Sansò. “Integrating geological prior information into the inverse gravimetric problem: the Bayesian approach”. In: *VIII Hotine-Marussi Symposium on Mathematical Geodesy: Proceedings of the Symposium in Rome, 17-21 June, 2013*. Springer International Publishing, 2016, pp. 317–324.
- [19] Daniele Sampietro, Martina Capponi, Damiano Triglione, AH Mansi, Paolo Marchetti, and Fernando Sansò. “GTE: a new software for gravitational terrain effect computation: theory and performances”. In: *Pure and Applied Geophysics* 173 (2016), pp. 2435–2453.
- [20] Fernando Sansò and Michael G Sideris. *Geodetic boundary value problem: the equivalence between Molodensky’s and Helmert’s solutions*. Springer, 2016.
- [21] L Biagi, S Caldera, Laura Carcano, Alba Lucchese, Marco Negretti, F Sansò, Damiano Triglione, and MARIA GRAZIA Visconti. “The HELI-DEM model estimation”. In: *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences* 40 (2014), pp. 15–20.
- [22] A Gatti, M Reguzzoni, F Migliaccio, and F Sansò. “Space-wise grids of gravity gradients from GOCE data at nominal satellite altitude”. In: *5th GOCE User Workshop*. 2014.
- [23] C Kotsakis, Antonios Vatalis, and Fernando Sansò. “On the importance of intra-frame and inter-frame covariances in frame transformation theory”. In: *Journal of Geodesy* 88 (2014), pp. 1187–1201.
- [24] Mirko Reguzzoni, Andrea Gatti, Carlo De Gaetani, Federica Migliaccio, and Fernando Sansò. “Locally adapted space-wise grids from GOCE data”. In: *EGU General Assembly Conference Abstracts*. 2014, p. 14010.
- [25] Fernando Sansò. “On the regular decomposition of the inverse gravimetric problem in non- L^2 spaces”. In: *GEM-International Journal on Geomathematics* 5.1 (2014), pp. 33–61.
- [26] Maddalena Gilardoni, Mirko Reguzzoni, D Sampietro, and Fernando Sansò. “Combining EGM2008 with GOCE gravity models.” In: *Bollettino di geofisica teorica ed applicata* 54.4 (2013).
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- [29] Fernando Sansò and Michael G Sideris. *Geoid determination: theory and methods*. 2013.
- [30] Fernando Sansò and Michael G Sideris. “The local modelling of the gravity field by collocation”. In: *Geoid Determination: Theory and Methods* (2013), pp. 203–258.
- [31] L Biagi and Fernando Sansò. “Some pitfalls to be avoided in combining simultaneous GNSS networks”. In: *VII Hotine-Marussi Symposium on Mathematical Geodesy: Proceedings of the Symposium in Rome, 6-10 June, 2009*. Springer Berlin Heidelberg, 2012, pp. 335–340.
- [32] Erik W Grafarend and Fernando Sansò. *Optimization and design of geodetic networks*. Springer Science & Business Media, 2012.
- [33] Maria Clara de Lacy, Mirko Reguzzoni, and Fernando Sansò. “Real-time cycle slip detection in triple-frequency GNSS”. In: *GPS solutions* 16 (2012), pp. 353–362.
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- [35] Mirko Reguzzoni and Fernando Sanso. "On the combination of high-resolution and satellite-only global gravity models". In: *Journal of Geodesy* 86 (2012), pp. 393–408.
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- [40] Fernando Sansò and Michael G Sideris. "Observables of physical geodesy and their analytical representation". In: *Geoid Determination: Theory and Methods*. Springer Berlin Heidelberg Berlin, Heidelberg, 2012, pp. 73–110.
- [41] Fernando Sansò and Michael G Sideris. "The forward modelling of the gravity field". In: *Geoid Determination: Theory and Methods*. Springer Berlin Heidelberg Berlin, Heidelberg, 2012, pp. 3–71.
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- [47] Mirko Reguzzoni, Fernando Sansò, and Damiano Triglione. *Metodi Monte Carlo e delle Catene di Markov: una introduzione. Con CD-ROM*. 2011.
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- [54] Maria Clara de Lacy, Mirko Reguzzoni, Fernando Sansò, and Giovanna Venuti. “The Bayesian detection of discontinuities in a polynomial regression and its application to the cycle-slip problem”. In: *Journal of Geodesy* 82 (2008), pp. 527–542.
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- [64] LUDOVICO GIORGIO ALDO Biagi, M Crespi, A Manzino, Fernando Sanso, et al. “I servizi di posizionamento basati su reti di stazioni permanenti GNSS”. In: *BOLLETTINO DELLA SOCIETÀ ITALIANA DI FOTOGRAMMETRIA E TOPOGRAFIA* 1.1 (2006), pp. 29–59.

- [65] Federica Migliaccio, Mirko Reguzzoni, Fernando Sanso, Nikolaos Tselfes, CC Tscherning, M Veicherts, et al. "The latest test of the space-wise approach for GOCE data analysis". In: *Proc. of the 3rd international GOCE user workshop*. 2006, pp. 6–8.
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