

Editor-in-Chief
Professor Neki Frasheri Acad.

Elected 2008

Professor Neki Frasheri is a distinguished Albanian mathematician and computer scientist who currently serves as the Chairman of the Section of Natural and Technical Sciences at the Academy of Sciences of Albania. With a career spanning nearly five decades, his work focuses on the intersection of applied mathematics, informatics, and environmental monitoring.

Graduated with gold medal in mathematics from the Faculty of Natural Sciences, University of Tirana, Albania, Professor Neki Frasheri has particularly contributed in the development of high-performance computing (HPC) and information technology infrastructure in Albania, with an extensive focus on systems and Internet networks, parallel and distributed systems, geophysical modelling and inversion, and the application of remote sensing for environmental analysis.



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Key professional positions

- Chairman of the Section of Natural and Technical Sciences, ASA.
- Elected member of Academy of Sciences of Albania (ASA) in 2008.
- Head of Department of Computing Fundamentals, Polytechnic University of Tirana.
- Head of the Software Department, Institute of Informatics and Applied Mathematics, ASA.

Research Interests

- Applied Mathematics & Informatics: multi-disciplinary research, computing and applied numerical modeling.
- Parallel & Distributed Systems: application development and analysis of scalability in high-performance computing.
- Remote Sensing & Geophysics: Utilization of satellite imagery to monitor ground movements, erosion, and other environmental changes.
- Information Science: interaction between information and social worlds.

Key Recent Publications

- Neki Frasheri. Some results on simulation of wind over rugged terrain using OpenFOAM in parallel processing systems. 2nd MedCyclones & 9th European Storm Workshop, Centre International de Conférences, Météo-France, Toulouse, France, 28-30 June 2023
- Neki Frasheri. On the convergence of wind simulation over rugged terrain using OpenFOAM. Journal of Natural and Technical Sciences – JNTS 2020 (2) XXV (51), Academy of Sciences of Albania.
- Neki Frasheri, Gudar Beqiraj. Development goals dynamics – do we know what we want? EURO-ACAD Sustainable Goals – We are lacking dynamics, Salsburg, 6 march 2020
- Neki Frasheri, Salvatore Bushati. On quality of a relaxational method for 3D gravity inversion. Journal of Natural and Technical Sciences – JNTS 2020 (1) XXV (50), Academy of Sciences of Albania.
- N. Frasheri and E. Atanassov. Scalability of 3D relaxational gravity inversion in HPC Avitohol. In Ultrascale Computing Systems, Eds. J. Carretero, E. Jeannot and A. Zomaya, IET (The Institution of Engineering and Technology) Professional Applications of Computing Series 24, 2019.
- Neki Frasheri, Gudar Beqiraj, Salvatore Bushati. Remote Sensing and Small Aperture Radar Imagery for Erosion Studies in Albania. The ESA Earth Observation Φ -week EO Open Science and Future EO, ESA-ESRIN, Frascati, 12-16 November 2018.

[More information is available online](#)