Special Issue

Inverse Problems and Imaging: Theory and Applications, 2nd Edition

Message from the Guest Editor

Inverse problems and imaging are two closely related and guickly emerging research fields that play a crucial role in many areas, such as medical imaging, nondestructive testing, remote sensing, or geophysics. Driven by the developments of novel imaging modalities and new application areas, theoretical and practical challenges arise that range from pure to applied mathematics and to engineering. Recently, data-driven approaches that are based on machine learning techniques have also been employed and analyzed in the context of inverse problems. Another important development is given by so-called multimodality or multispectral imaging. All these examples constitute only a small fraction of modern challenges and research directions in inverse problems and imaging. This Special Issue aims at bringing together original research articles that reflect recent advances in the field of inverse problems and imaging, including a broad range of imaging modalities, mathematics, and applications.

Guest Editor

Prof. Dr. Jürgen Frikel

Department of Computer Science and Mathematics, Ostbayerische Technische Hochschule Regensburg (OTH Regensburg), Regensburg, Germany

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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