Special Issue

Digital Data Processing Technologies: Trends and Innovations

Message from the Guest Editor

Novel digital data processing is crucial for industry, healthcare, and research. Key challenges stem from assets and data (acoustic, vibration, current) being predominantly transient. This necessitates advanced frequency/time-frequency analysis, non-linear higher-order spectral methods, and novel transient AI tailored to machinery and structures. This Special Issue excludes non-novel case studies; submissions must clearly state novelty backed by comprehensive reviews. Relevant areas include AI for decision-making, structural health monitoring, non-destructive testing, and condition monitoring technologies for linear/non-linear systems. Relevant research areas include, but are not limited to:

- Novel transient and stationary data processing technologies for all industrial sectors, bioengineering, and healthcare.
- Novel artificial intelligence technologies for decision-making.
- Novel structural health monitoring technologies and systems.
- Novel non-destructive testing technologies and systems.
- Novel condition monitoring technologies and systems.
- Novel adaptive technologies and systems.
- Novel technologies and systems for linear and non-linear assets.

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Technologies, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

Editor-in-Chief

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