

Special Issue

Advances in Biomedical Signal and Image Processing

Message from the Guest Editors

Medicine is entering a new era of signal-processing techniques that use biomedical signals and images to analyze medical phenomena and develop algorithms for pattern recognition and decision support. These methods synthesize complex data, revealing information not accessible through direct observation. Automatic analysis of ECGs, MCGs, EMGs, CTs, and ultrasound images now plays a central role in guiding clinical decisions. This Special Issue highlights the development, testing, verification, and validation of innovative algorithms and approaches using tools such as artificial intelligence, neural networks, data mining, and wavelets. We welcome submissions that enhance diagnostic accuracy, improve algorithmic analysis of health impacts, or propose corrective solutions. Relevant topics include noise filtering, addressing poor lighting, improving medical-image visibility and contrast, signal compression for telemedicine and portable devices, advanced feature extraction for computer-aided diagnosis, motion analysis and recognition, human-computer interfaces using biosignals, and AI-assisted automatic treatment systems.

Guest Editors

Dr. Beatrice Arvinti

Fundamentals of Physics for Engineers Department, "Politehnica" University Timisoara, Bd. Vasile Pärvan No. 2, 300223 Timisoara, Romania

Prof. Dr. Do-Young Kang

Department of Nuclear Medicine, College of Medicine, Dong-A University, Busan 49201, Republic of Korea

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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