

Dr. Ing. Jiří Pribil, advanced scientific worker, IMS SAS.

He is oriented to the sphere of analysis and synthesis of acoustic signals, implementation algorithms and their processing with utilization of signal processors, information system creation. In the sphere of imaging he is solving imaging methods: methods of measured NMR data processing, electronic parts of tomograph control system, automatic tuning system of RF coils, etc.

It is an advanced scientific worker with broad theoretical and experimental experience in the areas of: Analysis of MR scan sequences for thin layer imaging, mapping of the distribution and intensity of mechanical vibrations in the scanning area of MRI device, frequency analysis and statistical evaluation of features of the measured vibration and noise signals, method of noise suppression working in the frequency area, application of optimization approaches for MRI experiments.

He was responsible researcher of the international projects:

- The EU project, in 6th Framework Program "Maria Currie", "Creation of a network for the application of polarized helium for the human lung imaging", (PHELINET). 2007 – 2011.
- International research project EUREKA "E!2012" (Using of superconducting sensors SQUID in MRI), 1999 – 2004.
- International COST action: European Network for Hyperpolarization Physics and Methodology in NMR and MRI, MPNS COST Action TD1103. 2011 – 2015

In the present time he is the deputy head of the project: VEGA 2/0001/17

Active membership in commissions:

- the Commission for the defense of dissertations in course "Electrical engineering and communication technology"- giant Teleinformatika, FEKT BUT in Brno (Czech Republic),
- the Commission for the defense of dissertations in doctoral study program "Applied Sciences and Informatic "- giant Cybernetics, FAV WBU in Pilsen (Czech Republic).

The opponent of the dissertation (habilitation) thesis: 11/5 – for the past 5 years.

Leadership of diploma thesis: 10/4 – for the past 5 years.

Review of projects: COST (Czech Republic, VESA – 2013, 2014), APPV 2012, Ministry of Education, Science, Research, and Sports of the Czech Republic – 2010.

Review the many articles for different scientific journals as: Applied Mathematical Modelling, Applied Acoustics, Cognitive Computation, Computer Methods and Programs in Biomedicine, Biomedical Signal Processing and Control, IEEE Signal Processing Letters, Measurement Science Review, etc.

Review editor of Frontiers in Psychology, section Human-Media Interaction (since 2016-up to now).

Membership in professional organizations: the society of biomedical engineering and medical informatics SLS, a member of the Audit Commission.