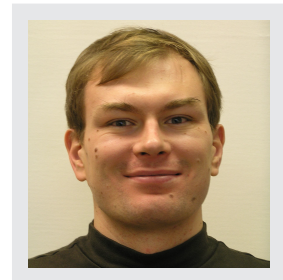


Foreword about professor Marek Penhaker as a member of Editorial Board of "Advances in Electrical and Electronic Engineering" journal and the head of Biomedical Engineering group at VSB–Technical University of Ostrava at Department of Cybernetics and Biomedical Engineering

prof. Marek Penhaker, Ph.D. finished M.Sc. in 1996 at Faculty of Electrical Engineering and Computer science in specialization Measurement and Control in Biomedicine at VSB–Technical University of Ostrava, Czech Republic. He followed his Ph.D. studies with the thesis entitled “The development of the process for systematic diagnostics of vascular system conditions with the use of plethysmographycal record” where he was specialized in biosignal processing and measurement. He received Ph.D. in Technical Cybernetics from VSB–Technical University of Ostrava. In October 2000 he started working as a professor assistant at VSB–Technical University of Ostrava in the field of biosignal measurement, transmission and processing. Since 2002 he is Guarantee of M.Sc. specialization Measurement and Control in Biomedicine, from 2003 he is vice-director for research and science of Department Measurement and Control. Currently he is from 2004 Ph.D. tutor specialist for branch Technical Cybernetics. He obtained the “Docent” as associate professor in 2016 in Biomedical Engineering branch on Czech Technical University in Prague, Faculty of Biomedical Engineering. In 2018 he was nominated as professor in Biomedical Engineering. Through his career he published more than 130 original research articles including over 30 peer reviewed journal papers. He is author and coauthor of more than fifteen books. He received several awards, among them the Siemens in Study of Drive Gear at Mobile Mount with Fuel Cell. He realized more than 30 patents and utility models and prototypes. His current research interests are focused on sensing, data processing algorithms, instruments for diagnosis and therapy of health corresponding with telemedicine and personal health care.



Marek Penhaker

Dear readers of Advances in Electrical and Electronic Engineering. It is a great honor for me to write the introductory word of this magazine at the end of 2018, at a time that is time and physically demanding for all scientists. Therefore, I first express thanks to you all for posts written in this magazine, as well as abiding admiration for your work and excellent results we achieve.

Throughout my professional life, I try to follow the rule that I'm not good if I'm only better than average. This statement could also be used for the upcoming level of our magazine, and it is incredible what the team of editors and correspondents have done to you. Above all, this magazine owes you to the quality of the evaluation among other professional journals, as well as to the constant interest of new authors in the publication of their professional works. And despite all these achievements, the goals of this magazine and our authors are certainly not exhausted.

From the viewpoint of the statistics of this magazine, almost 99.7 % of articles have been recorded in the issues published so far, which have achieved the expected positive result in scientific work. Globally, this number is fully comparable with the world's scientific databases and is somewhat striking. The reason for such a high number of positive results may be, on the one hand, the high success of scientific research, but the reluctance and fear of publishing identified failures at work is more likely due to reasons other than expected or even quite different from the assumption. And this should be a topic to think not only for authors but also publishers of professional communications, whether these research paths found and proven to be unsuccessful cannot be as good a guideline for other colleagues as with a positive result. Not to be the experience of our famous predecessors like Edison, Tesla, Marconi, and others who, thanks to failures, have revealed literally the breakthroughs of our civilization, we should not have today the most modern means of communication.

The desire for recognition of the unrecognized as well as the detective stories of science are the everyday bread of scientists around the world, and often routine systematic work, as well as excellent ideas, push our society forward. It is precisely the contribution of new knowledge to society and the possibility of solving current but also potentially future problems through new scientific knowledge to motivate us all. Current trends in development are, of course, medicines for various diseases, delaying aging, promoting education and facilitating and refining mechanical work, acquiring an ecological energy source and much more. Yet, as a global goal, we should aim to improve the quality of human life as a whole. Where every person is unique and has his or her life and social needs, which are currently at the highest level for the entire existence of mankind. Our professional and human efforts should not only encourage physical well-being, but also psychological balance and well-being in the use of new technologies and resources not only in everyday life. I wish all of us to continue with this effort and have had a vision of the benefits of our work for the whole society not only in the coming year of 2019.