Piotr Ladyzynski, Ph.D., D.Sc., Professor at IBBE PAS

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EDUCATION AND SCIENTIFIC DEGREES

2009	D.Sc. (habilitation) degree in biocybernetics and biomedical engineering
	at the Nalecz Institute of Biocybernetics and Biomedical Engineering PAS (IBBE PAS),
1997	Ph.D. degree in technical sciences at IBBE PAS,
1990	M.Sc. degree in mechanics in specialization of biomedical engineering
	at the Faculty of Fine Mechanics (currently: Faculty of Mechatronics),
	Technical University of Warsaw.

PROFESSIONAL EXPERIENCE

since 10.2014	Director of the International Centre of Biocybernetics PAS,
02.2014 - 11.2014	Deputy Director for Research at IBBE PAS,
since 11.2010	Professor at IBBE PAS,
since 05.2010	Member of the Council of the International Centre of Biocybernetics PAS,
02.2010 - 12.2014	Head of the Department of Biomedical Systems and Technologies at IBBE PAS,
since 02.2010	Member of the Scientific Council of IBBE PAS,
09.2009 – 10.2010	Associate Professor at IBBE PAS,
since 04.2007	Deputy Director for General Affairs at IBBE PAS,
04.2001 – 09.2009	Senior researcher in the Lab. of Biomedical Engineering Methods for Support of Intensive Therapies at IBBE PAS,
04.2000 – 03.2001	Postdoctoral Fellow in the Image Processing Laboratory at the Institute of Science and Technology, Graduate School of Information Science, Nara, Japan (fellowship founded by the Japan Society for the Promotion of Science in the framework of Postdoctoral Fellowship for Foreign Researchers Program),
01.1990 – 03.2003	Assistant, Senior Assistant and Senior Researcher in the Lab. of Drug Delivery Systems and Membrane Research at IBBE PAS.

Short-term scientific visits

2011	Faculty of Biomedical Engineering, Osaka Electro-Communication University, Osaka, Japan,				
2010	College of Electrical Engineering and Computer Science, Department of Electronic Engineering, Chung Yuan Christian University, Chung Li, Taiwan Republic of China,				
2006	Dept. of Pure and Applied Biochemistry, Lund University, Lund, Sweden,				
2003	Institute of Science and Technology, Graduate School of Information Science, Nara, Japan,				
2002	Cheltenham General Hospital, Cheltenham, United Kingdom,				
1999	Dipartamento di Medicina Clinica e Biotecnologia Applicata, Universita degli Studi di Bologna, Policlinico S. Orsola, Bolonia, Italy,				

Bioengineering Unit, University of Strathclyde, Glasgow, Scotland, UK,
 Centre of Measurements and Information in Medicine, System Sciences Department,
 City University, London, United Kingdom,
 Institute für Physiologie und Biochemie der Ernährung at Bundesanstalt für Milchforschung,
 Kiel, Germany,
 Semmelweis University of Medicine, Budapest, Hungary.

SCIENTIFIC RESEARCH AND INTERESTS

Artificial internal organs including artificial pancreas and diabetes treatment, technical support for intensive monitoring and treatments, application of the information and telecommunication technologies in monitoring and treatment of chronic diseases, home telecare, telemonitoring and telemedicine, medical databases, decision support and application of artificial intelligence in medicine.

GRANTS

Leader and executor of 14 research, development, expedient and applied grants from the Committee for Scientific Research, Ministry of Science and Higher Education, National Science Centre, National Centre for Research and Development and EU structural funds with budgets from 30 000 to 650 000 Euro.

PUBLICATIONS

Author and co-author of over 250 scientific publications, including: 4 monographs, 4 chapters, 51 peer review journal papers, 3 patents, 1 industrial standard and 7 expert reports.

TEACHING EXPERIENCE

since 2016	Lectures on telemedicine for M.Sc. students t the Faculty of Electrical Engineering of the Warsaw Technical University
2006 – 2007	Lectures on telemonitoring and home telecare in treatment of diabetes and its complications for physicians at the Medical Centre of Postgraduate Education.
since 1994	Lectures on technical support of diabetes treatment and artificial pancreas for Ph.D. students at the IBBE PAS and for M.Sc. students at the Faculty of Mechatronics of the Warsaw Technical University, Faculty of Physics and Applied Informatics of the AGH University of Science and Technology, Faculty of Electronics of the Warsaw Technical University.

AWARDS

2009	Award "Innovation for Health 2009"			" in a category of the			Innovative Medical Technologies for			
	Computerized	system	controlling	treatment	of	the	diabetic	foot	syndrome	patients
	(TeleDiaFoS) in a contest organized by Working Group for Innovations in Health Care.									

- 2002 II-Grade Scientific Award of the Rector of the Medical Academy of Warsaw for design and evaluation of the clinical efficacy of the system for monitoring and control of the intensive insulin treatment realized by means of multi-injections technique in pregnant diabetic women.
- 1996 Distinction of the doctoral thesis from the Scientific Council of the IBBE PAS.
- 1994 II-Grade Scientific Award of the Rector of the Medical Academy of Warsaw for scientific achievements in a project entitled "Multidisciplinary model of the medical care in pregnant diabetic women in Poland".

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC ORGANIZATIONS

since 2006	International Federation for Medical and Biological Engineering, Head of the Industry Working Group (since 2016), Secretary of the Industry Working Group (2008-2015), Member of the Publication and Publicity Committee (since 2013).
since 2004	Network of the Biomedical Engineering in Poland <i>BIOMEN,</i> Secretary of the Board, Secretary of the Artificial Organs Working Group.
since 1998	Polish Society for Biomedical Engineering (PSBE) – founding member, Member of the Executive Board of PSBE (2002-2007), Treasurer (2005-2007).
since 1997	European Society for Artificial Organs (ESAO) Governor at the ESAO Board (2007-2012), Secretary of the XXIII ESAO Congress (in 1996), Chairman of the Local Organizing Committee of the XXXI ESAO Congress (in 2004), President of the XLIII ESAO Congress (in 2016).

EXPERT ACTIVITY

Journal editor

since 2017	Editor-in-Chief of Biocybernetics and Biomedical Engineering,
since 2012	Deputy Editor of <i>Proceedings of the International Federation for Medical and Biological</i>
	Engineering.

Journal editorial board member

2015-2016	SpringerPlus,
since 2013	Advanced Biomedical Engineering (Japan),
2011-2016	Biocybernetics and Biomedical Engineering,
since 2002	Acta Bio-optica et Informatica Medica.

D.Sc. and Ph.D. theses reviews

Reviewer of 6 Ph.D. theses in Poland, Spain and India and one D.Sc. thesis in Poland.

Grant proposals / reports reviews

European Commission H2020, National Science Centre, National Centre for Research and Development, Operational Program Innovative Economy (founded by EU), Program of the Ministry of Science and Higher Education for Support of the Research Infrastructure in framework of the Fund of Polish Science and Technology, Qatar National Fund.

Journal paper reviews (selected)

Neural Computation, Neural Computing and Applications, Annals of Biomedical Engineering, Clinical Chemistry and Laboratory Medicine, BMJ Online, International Journal of Nanomedicine, Diabetes Research and Clinical Practice, Diabetes Technology and Therapeutics, IEEE Transactions on Biomedical Engineering, Medical & Biological Engineering & Computing, Computers in Biology and Medicine, Artificial Organs, International Journal of Artificial Organs, Journal of Telemedicine and Telecare, Computer Methods and Programs in Biomedicine, Opto-Electronics Review, Biocybernetics and Biomedical Engineering, SpringerPlus, Journal of Diabetes Science and Technology.

Other expert activity

since 2016 Member of the Commission for Medical Products in the Office for Registration of Medical Products, Medical Devices and Biocidal Products.