15.03.22

Qualifications of the individual for defining area of expertise

Name/ Birth year	**Ryszard Tadeusiewicz** / 1947
Title (year degree obtained) / Prof. status	Ph. D. EE. (1975) / research scientist DSc. (1980) / associate professor Professor (1993)
Address[1]	AGH University of Science and Technology, 30, Mickiewicza Ave. 30-059 Krakow, Poland phone: (+4812) 6172095 rtad@agh.edu.pl, http://www.agh.edu.pl/uczelnia/tad/
Area of expertise[2]	Biocybernetics / Biomedical Engineering, Automatic Control and Robotics
Relevant (best) publications[3]	1. Abdar M., Fahami M.A., Chakrabar- S., Khosravi A., Pławiak P., U Rajendra A,, Tadeusiewicz R., Nahavandi S.: BARF: A New Direct and Cross-based Binary Residual Feature Fusion with Uncertainty-Aware Module for Medical Image Classifica-on, Informa-on Science, vol. 577, pp. 353-378, 2021 2. Hammada M., Rajeshb K.N.V.P.S., Abdelateyc A., Abdard M., Zomorodit M., San Tano R., Acharya R.U., Pławiak J., Tadeusiewicz R., Fzadegang N.S., Khosravid A., Makarenkov V., Nahavandid S., EL-La-fl A.A.A., Pławiak P.: Automated detec-on of Shockable ECG signals: A Review, Informa-on Science, vol. 571, September 2021, pp. 580-604, 3. Behesh-Roui M., Zomorodi M., Sarvelaya- M., Abdar M., Noori H., Pławiak P., Tadeusiewicz R., Zhou X., Khosravi A., Nahavandi S., Acharya R.U.: A Novel Approach based on Genetic Algorithm to Speed up the Discovery of Classifica-on Rules on GPUs. Knowledge-Based Systems, Volume 231, 14 November 2021, 107419 4. Alqahtani S., Habib R., Zaffar M., Quraishi K.S., Altaf O., Irfan M., Glowacz A., Tadeusiewicz R., Huneif M.A., Abdulwahab A., Alduraibi S.K., Alshehri F., Alduraibi A.K., Almushay- Z.: Analyzing the Features Affec-ng the Performance of Teachers during Covid-19: A Mul-level Feature Selec-on, Electronics, 2021, vol. 10, issue 13, 1673, 5. Głowacz A., Tadeusiewicz R., Legutko S., Caesarendra W., Irfan M., Liu H., Brumercik F., Gutten M., Sulowicz M., Daviu J.A.A., Sarkodie-Gyan T., Fracz P., Xiang J.: Fault diagnosis of angle grinders and electric impact drills using acous-c signals, Applied Acoustics, No. 179, 2021, 108070, 6. Gondal A.U., Sadiq M.I., Ali T., Irfan M., Shaf A., Aamir M., Shoaib M., Glowacz A., Tadeusiewicz R., Kantoch E.: Real Time Mul-purpose Smart Waste Classification Model for Efficient Recycling in Smart Ci-es using Mul-layer Convolutional Neural Network, and Perceptron, Sensors 2021, vol. 21(14), 4916
Publications statistics:	**Scopus:** Publications: 244, Citations: 1887 H-index: 23 **Web of Science**: Publications: 228, Citations: 1565, H-index: 23
Other[4]	**Doctor Honoris Causa / Honorary Doctorate from 14 universities** • ANSTED University (Kuala Lumpur) – June 2001 • National Mining University of Ukraine (Dnepropetrovsk) – February 2002 • Czestochowa University of Technology (Czestochowa) – October 2002 • Wroclaw University of Technology (Wroclaw) – November 2002 • National University of Petrol and Gas (Ivano-Frankovsk) - November 2003

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[1] Organisation, street address, telephone, email, web page

[2] With keywords characterising your field(-s) of expertise

[3] Max. 10

[4] List didactic, major grants, conference responsibilities, professional recognitions, memberships, journals, patents, etc.

- Kosice University of Technology (Kosice) – March 2005
- Lodz University of Technology (Lodz) – April 2005
- University of Zielona Gora (Zielona Gora) – June 2005
- Silesian University of Technology (Gliwice) – June 2005
- Pedagogical University (Krakow) – May 2008
- Economic University (Krakow) – May 2008
- Lublin University of Technology (Lublin) – May 2008
- Agricultural University (Krakow) – Mart 2015
- University of Science and Technology (Bydgoszcz) – February 2020

didactic responsibilities and service
1980 - 1998 to date, Lecturer at AGH-UST, "Biomedical signal processing", "Electronic medical equipment" etc.
1993 - to date, Lecturer at AGH-UST, "Artificial intelligence", "Pathological speech analysis", "Medical image processing" etc.
1980 - to date, AGH-UST, supervision of 76 PhD,
1998 – 2005 Rector of the AGH University of Science and Technology
2000 – 2015 President of the Polish Academy of Sciences, Krakow Branch
1995 – 2016 Head of the Automatic Control and Biomedical Engineering Institute

patents:
Tadeusiewicz R., Jabłoński M., Piłat A., Mikrut Z., Turnau A., Przybyło J.: System for Automatic Seed Scarification and Viability Assessment and Manner of Automatic Seed Scarification and Viability Assessment. Application to the Patent Office of the Republic of Poland No P-414 969, effective from 2015-11-29

Tadeusiewicz R., Jabłoński M., Mikrut Z., Przybyło J., Piłat A., Turnau A., Klocek J., Walczyk J., Tylek P., Juliszewski T., Kiełbasa P., Szczepaniak J., Adamczyk F., Frąckowiak P., Wąchalski G.: A system for automatic scarification and assessment of vitality of seeds and a method for automatic scarification and assessment of vitality of seeds, Application to the European Patent Office, EP15196982.1, 2015

member of Editorial Boards (selected):
- *Neurocomputing*, 1994-present
- *IEEE Transactions on Neural Networks,* 2004 – 2006
- *Applied Mathematics and Computer Science,* 1996 – present
- *Information Sciences,* 2016 – present
- *Archives of Civil and Mechanical Engineering,* 2004 – present
- *Automation in Construction,* 2005 – present
- *Archives of Mining Sciences,* 2015 – present
- *Biocybernetics and Biomedical Engineering,* 1996 – present

member of International Program Committees in over 50 International Scientific Conferences every year

reviewer of hundreds of grant proposals, journal and conference papers, Ph.D. dissertations as external reviewer