

Recently written papers:

2009

1. Tadeusiewicz R.: *O celowości zastosowania sieci neuronowych w problemach związanych z elektrotechniką*, Przegląd Elektrotechniczny (Electrical Review), ISSN 0033-2097, Rocznik 85, Nr 2, 2009, ss. 201-212 **MNiSW: 6; LF**

2008

2. Ogiela L., Tadeusiewicz R., Ogiela M.R.: *Cognitive techniques in medical information systems*. Computers in Biology and Medicine, Vol. 38, Nr. 4., 2008, pp. 501-507; **MNiSW: 20; LF**
3. Szaleniec M., Tadeusiewicz R., Witko M.: *How to select an optimal neural model of chemical reactivity?*, Neurocomputing, Nr. 72, 2008, pp. 241–256; **MNiSW: 15; LF**
4. Tadeusiewicz R., Ogiela L., Ogiela M.R.: *The Automatic Understanding Approach to Systems Analysis and Design*, International Journal of Information Management, Vol. 28, Nr.1, 2008, pp 38-48 **LF; MNiSW: 15**
5. Tadeusiewicz R.: *Special Issue on "Dynamic Systems, Stability, Controllability, and Automatic Control"*. Bulletin of the Polish Academy of Sciences - Technical Sciences, Vol. 56, No. 4, 2008, pp. 307-308 **LF; MNiSW: 6**
6. Tadeusiewicz R., Ogiela L.: *Selected Cognitive Categorization Systems*, Chapter in book: Rutkowski L. et al. (Eds.): Artificial Intelligence and Soft Computing, ICAISC 2008, Lecture Notes on Artificial Intelligence, vol. 5097, Springer-Verlag Berlin Heidelberg 2008, pp. 1127–1136 **MNiSW: 10**
7. Tadeusiewicz R.: *Using Neural Models for Evaluation of Biological Activity of Selected Chemical Compounds*. Chapter (Nr. 6) in book: Smolinski T.G, Milanova M.G. and Hassanien A.-E. (Eds.): Applications of Computational Intelligence in Biology, Current Trends and Open Problems, Studies in Computational Intelligence, Vol. 122, Springer-Verlag, Berlin – Heidelberg – New York, 2008, pp. 135-159 **MNiSW: 7**
8. Tadeusiewicz R., Szczepaniak P.S.: *Basic Concepts of Knowledge-Based Image Understanding*, Chapter in book: Nguyen N.T., Jo G.S., Howlett R.J., Jain L.C. (eds.): Agent and Multi-Agent Systems: Technologies and Applications, Lecture Notes on Artificial Intelligence, vol. 4953, Springer-Verlag, Berlin – Heidelberg – New York, 2008, pp. 42-52; **MNiSW: 10**
9. Tadeusiewicz R.: *Selected problems resulting from the use of internet for teaching purposes*. Bulletin of the Polish Academy of Sciences - Technical Sciences, Vol. 56, No. 4, 2008, pp. 403 – 409; **MNiSW: 6, LF**
10. Zachara M., Tadeusiewicz R.: *Real-time video vectorization method for the purpose of surroundings recognition and mobile robot navigation*, Journal of Automation, Mobile Robotics & Intelligent Systems, Vol. 2, Nr. 2, 2008, pp. 10-17 **MNiSW: 4**

11. Ogiela L., Tadeusiewicz R., Ogiela M.R.: *Cognitive Categorizing in UBIAS Intelligent Medical Information Systems*, in Sordo M., Vaidya S., Jain L.C. (eds.): *Advanced Computational Intelligence Paradigms in Healthcare 3*, *Studies in Computational Intelligence* 107, Springer-Verlag, Berlin, Heidelberg, 2008, pp. 75-94 **MNiSW: 7**
12. Tadeusiewicz R.: *Internet und Recht*, Chapter in book: Uruszczak W., Świącicka P., Kramer A. eds.): *Leges Sapere*. Jagiellonian University, Krakow 2008, pp. 621-636 **MNiSW: 3**
13. Tadeusiewicz R.: *[R]evolution coming soon - about curiosity, myth of the artificial intelligence, metallurgy and why people desire so much imagined worlds*. *Journal of Automation, Mobile Robotics & Intelligent Systems* (ISSN 1897-8649) vol. 2 no. 3, 2008, pp. 62–65 **MNiSW: 4**
14. Bieda B., Tadeusiewicz R.: *Decision support systems based on the Life Cycle Inventory for Municipal Solid Waste management under uncertainty*, *International Transactions in Operational Research*, vol. 15, nr 1, 2008, pp.103–119; **MNiSW: 2**
15. Tadeusiewicz R., Ogiela M.R.: *Medical Pattern Understanding Based on Cognitive Linguistic Formalisms and Computational Intelligence Methods*, In Jun Wang (ed.): 2008 IEEE World Congress on Computational Intelligence WCCI, IEEE Catalog Number: CFP08IJS-CDR, ISBN: 978-1-4244-1821-3, ISSN: 1098-7584, IEEE Piscataway 2008, pp. 1729-1733
16. Tadeusiewicz R., Ogiela L.: *Modern Methods for the Cognitive Analysis of Economic Data and Text Documents and Their Applications in Enterprise Management*. In: Snasel V., Abraham A., Saeed K., Pokorný J. (eds.) *Proceedings 7th International Conference on Computer Information Systems and Industrial Management Applications CISIM 2008*, IEEE Computer Society, IEEE Catalog Number: CFP0840C-PRT, ISBN: 978-0-7695-3184-7, Los Alamitos, California 2008, pp. 11 – 23
17. Tadeusiewicz R., Ogiela L.: *Categorization in Cognitive Systems*, In: Nenov S. (ed.): *Fifth International Conference of Applied Mathematics and Computing*. Plovdiv, 2008, vol. 3, p. 451
18. Ogiela M.R., Tadeusiewicz R., Trzupek M.: *Graph-based semantic description and information extraction in analysis of 3D coronary vessels visualizations*, In: Badica C., Paprzycki M. (eds.): *Advances in Intelligent and Distributed Computing*, *Studies in Computational Intelligence*, vol. 78, Springer-Verlag, Berlin – Heidelberg – New York, 2008, pp. 303-309
19. Babiy V., Bigelow B., Grewal R.S., Janicki R., Kakiashvili T., Koczkodaj W.W., Passi K., Tadeusiewicz R.: *Internet Contamination as a Global Harm and a Social Problem*, *Journal of Applied Computer Science*, Vol. 16, No. 2, 2008, pp. 45-58
20. Ogiela L., Tadeusiewicz R., Ogiela M.R.: *Cognitive Approach to Medical Pattern Recognition, Structure Modelling and Image Understanding*, In Yenghong Peng and Yufeng Zhang (eds.): *Proceedings of International Conference on BioMedical Engineering and Informatics BMEI 2008*, CPS-IEEE, (ISBN 978-0-7695-3118-2, DOI 10.1109/BMEI 2008.118) Los Alamitos, California, Washington, Tokyo, 2008, pp. 33-37

21. Tadeusiewicz R., Grabska-Chrzęstowska J., Polcik H.: *Attempt of neural modelling of castings crystallisation control process*. Computer Methods in Material Sciences (ISSN 1641-8581) vol. 8, No. 2, 2008, pp. 58-69
22. Ogiela L., Tadeusiewicz R., Ogiela M.R.: *Cognitive Modeling in Computational Intelligence Methods for Medical Pattern Semantic Categorization and Understanding*, in Shni S. (ed.): Proceedings of the ACST 2008, the Fourth IASTED International Conference on Advances in Computer Science and Technology (ISBN CD: 978-0-88986-730-7), ACTA Press, Anaheim – Calgary – Zurich 2008, pp. 368-371
23. Zeng Y., Skibniewski M.J., Tadeusiewicz R.: *Enhancing Collaboration in Project-Based Organizations with Information Technology: A Multi-Level Strategy*. In PMI Research Conference “Defining the Future of Project Management” (ISBN: 978-1-933890-48-7) PMI, Warsaw, 2008, CD Version only, pp. 1-13
24. Ogiela L., Tadeusiewicz R., Ogiela M.R.: *Cognitive Categorization in Medical Structures Modeling and Image Understanding*, in Dongguang Li and Guang Deng (eds.): Proceedings of First International Congress on Image and Signal Processing, (ISBN 978-0-7695-3119-9), CPS-IEEE, Los Alamitos, California, Washington, Tokyo, 2008, vol. 4, pp. 560-564
25. Ogiela L., Tadeusiewicz R., Ogiela M.R.: *AI-Cognitive Description in Visual Medical Pattern Mining and Retrieval*, in Al-Dabass D., Turner S., Tan G, Abraham A. (eds.): Proceedings of the AMS 2008 – Second Asia International Conference on Modelling & Simulation, IEEE Computer Society (DOI 10.1109/AMS.2008.23), Kuala Lumpur, 2008, pp. 885-889
26. Tadeusiewicz R.: *Visual navigation system for a mobile robot with limited computational requirements*, In Moczulski W., Januszka M., Bzymek A.: Proceedings of AIMETH 2008 Workshop on Problems of Mobile Robotics, AI-METH Series, Ustron, 2008, pp. 71-82
27. Ogiela L., Tadeusiewicz R., Ogiela M.R.: *Cognitive Approach to Medical Semantics Description and Interpretation*, Proceedings of INFOS 2008, The 6th International Conference of Informatics and Systems, Cairo University, 2008, pp. HBI-1 – HBI-5
28. Kakiashvili T., Koczkodaj W.W., Montgomery P., Passi K., Tadeusiewicz R.: *Assessing the Properties of the World Health Organization’s Quality of Life Index*, w Proceedings of the International Multiconference on Computer Science and Information Technology, Polish Information Processing Society, Wisła, 2008 (ISSN 1896-7094 ; ISBN 978-83-60810-14-9), ss. 151–154
29. Ogiela L., Tadeusiewicz R., Ogiela M.R.: *Cognitive Modeling in Medical Pattern Semantic Understanding*, Proceedings of International Conference on Multimedia and Ubiquitous Engineering MUE 2008, IEEE Catalog Number: CFP0882B-PRT, ISBN: 978-0-7695-3134-2, IEEE Los Alamitos, 2008, pp. 15-18
30. Ogiela L., Tadeusiewicz R., Ogiela M.R.: *Cognitive Methods in Medical Image Analysis and Interpretation*, MIAR 2008 - 4th International Workshop on Medical Imaging and Augmented Reality, August 1-2, 2008, The University of Tokyo, Tokyo, Japan, Proceedings on CD ROM, paper P1-12, pp.1-7

31. Kushtina E., Zaikin O., Ciszczyk M., Tadeusiewicz R: *Quality factors for knowledge repository: based on e-Quality project*, In Joergensen D.S. & Stenalt M.H. (eds.): Proceedings of EUNIS 2008 VISION IT - Vision for IT in higher education, University of Aarhus, 2008, ISBN 978-87-91234-56-9, <http://www.eunis.dk/papers/>
32. Tadeusiewicz R., Ogiela L., Ogiela M.R.: *Automatic Understanding and Cognitive Analysis of Selected Medical Images*. European Conference "Medical Physics and Engineering 110 Years After the Discovery of Polonium and Radium" – Conference Programme and Abstract, Krakow 2008, page 48

Books written by prof. Tadeusiewicz

2009

1. Augustyniak P., Tadeusiewicz R.: *Ubiquitous Cardiology - Emerging Wireless Telemedical Application*. IGI Global, Hershey - New York, 2009 (ISBN 978-1-60566-080-6) **MNiSW: 24**

2008

2. Ogiela M. R., Tadeusiewicz R.: *Modern Computational Intelligence Methods for the Interpretation of Medical Image*, Studies in Computational Intelligence, Volume 84, Springer-Verlag, Berlin – Heidelberg – New York, 2008 (ISSN 1434-9922; ISBN 3-540-21985-4) **MNiSW: 24**
3. Tadeusiewicz R.: *Internet community* [In Slovak: Spoločenstvo Internetu], Technická Univerzita Košice, Košice 2008 (ISBN 978-80-553-0081-8), **MNiSW: 12**
4. Tadeusiewicz R. (and 15 coauthors): *Monitoring system and scenarios of medical technology development in Poland* [In Polish: System monitorowania i scenariusze rozwoju technologii medycznych w Polsce], PLATIN, Warszawa 2008 (ISBN 927646) **MNiSW: 3**

Books edited by prof. Tadeusiewicz

2008

1. Rutkowski L., Tadeusiewicz R., Zadeh L., Zurada J. (eds.): *Artificial Intelligence and Soft Computing – ICAISC 2008*, Lecture Notes in Artificial Intelligence, Vol. 5097, Springer-Verlag, Berlin – Heidelberg – New York, 2008 (20%) **MNiSW: 5**
2. Rutkowski L., Tadeusiewicz R., Zadeh L., Zurada J. (eds.): *Computational Intelligence: Methods and Applications*, EXIT, Warsaw 2008 (20%)
3. Tadeusiewicz R. (ed.): *Biomedical engineering: a book of modern magic knowledge – a nice and approachable version* [in Polish: Inżynieria Biomedyczna – Księga współczesnej wiedzy tajemnej w wersji przystępnej i przyjemnej]. UWND AGH, Kraków 2008; **MNiSW: 3**

4. Tadeusiewicz R. - Guest Editor of the *Bulletin of the Polish Academy of Sciences - Technical Sciences*, Vol. 56, No. 4, 2008
5. Tadeusiewicz R. – Guest editor of the *Automatics* [in Polish: *Automatyka*] – a half-year Scientific Journal ISSN 1429-3447, UWND AGH, Krakow 2008 **MNiSW: 3**
1. Tadeusiewicz R. - Consulting Editor in *International Journal of Biometrics*, vol. 1, No. 1, 2008

Membership in International Program Committees for international conferences

2009

- Member of Advisory Board for *International conference on computer, communication and instrumentation*, Vivekanand Education Society's Institute of Technology, Chembur, Mumbai, (India), January 2-3, 2009
- Member of Technical Program Committee for CIDM'09 *Computational Intelligence in Data Mining*, Nashville, Tennessee, USA, 30 March to 2 April, 2009
- Member of the International Program Committee for the ICAART-2009 *International Conference on Agents and Artificial Intelligence*, Porto, January 19 - 21, 2009
- Member of the International Program Committee for *The Second International Conferences on Advances in Computer-Human Interactions*, ACHI, Cancun, February 1-6, 2009
- Member of the International Program Committee for *The 2009 International Symposium on Signal Processing, Image Processing and Pattern Recognition*, December 10 - 12, 2009, Jeju Island, Korea
- Member of the International Program Committee for *The 2nd International Conference on Computer Science and its Applications (CSA-09)*, December 10 - 12, 2009, Jeju Island, Korea
- Member of the International Program Committee for the Ninth ICANNGA (*International Conference on Adaptive and Natural Computing Algorithms*), University of Kuopio, Finland, 23-25.4.2009
- Member of the International Program Committee of the *IASTED International Conference on Artificial Intelligence and Applications*, AIA 2008, Innsbruck, Austria, February 16-19, 2009
- Member of the International Program Committee of the ICEIS -*11th International Conference on Enterprise Information Systems*, Milan, Italy, 6 - 10, May 2009
- Member of the International Program Committee of the ADVCOMP 2009, *The Third International Conference on Advanced Engineering Computing and Applications in Sciences*, Sliema - Malta, October 11-16, 2009
- Member of the International Program Committee of the *13th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems KES2009*, Santiago (Chile), September 28-30, 2009
- Member of the International Program Committee for the *International Conference on Computational Science 2009, ICCS 2009: "Compute. Discover. Innovate."*, Baton Rouge, Louisiana, USA, May 25-27, 2009

- Member of the Technical Committee for the Special Session entitled *Computational Intelligence in Direct Support of Patient Care* at the 2009 International Joint Conference on Neural Networks (IJCNN09), Atlanta, Georgia USA, June 14-19, 2009
- Member of the International Program Committee for the IASTED *International Conference on Computational Intelligence* (CI 2009), Honolulu, Hawaii, USA, August 17-19, 2009.
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- Member of the International Program Committee for the DESDes'09 - *4th International IFAC Workshop on Discrete-Event System Design*, Valencia (Spain), 6 - 8 October 2009
- Member of the International Program Committee for the ICINCO 6th *International Conference on Informatics in Control, Automation and Robotics* (IEEE & IFAC), Milan (Italy), July 2-5, 2009
- Member of the International Program Committee for the CGMS-09 *International Workshop on Computer Graphics, Multimedia and Security*, Seoul – Korea, June 25-27, 2009
- Member of the International Program Committee for the 9th *International Conference on Diagnostics of Processes and Systems* (DPS'2009), Gdansk, 7-9.09.2009
- Member of the International Program Committee for the 17th *International Conference on Intelligent Information Systems*, Krakow, June 23-25 2009
- Member of the International Program Committee of the *4rd International Conference on Dependability of Computer Systems* DepCoS-RELCOMEX '09, Brunów Palace, June 26-28, 2009
- Member of the Program Committee for the *First International Workshop on Business Intelligence*, Mragowo, October 12-14, 2009
- Member of the International Steering Committee for the *International Conference on Man-Machine Interactions* (in Memoriam Adam Mrózek), Kocierz, September 25-27, 2009
- Member of the International Scientific Advisory Committee for the ICVP *International Conference on Virtual Patients*, Krakow, June 5-6, 2009
- Member of the International Program Committee for the IIS 2009 *International Joint Conference on Intelligent Information Systems* (Joint venture of the 17th International Conference Intelligent Information Systems (IIS) and the 24th International Conference on Artificial Intelligence (AI)), Krakow, June 16-18, 2009
- Member of the Program Committee for the *International Congress on Sound and Vibration*, Krakow, July 5-9, 2009
- Member of the Program Committee for the *International Multiconference on Computer Science and Information Technology*, Mragowo, October 12-14, 2009
- Co-organizer of the "*Mathematical Image Processing*" Section included to the Annual GAMM Meeting (GAMM = *Gesellschaft für Angewandte Mathematik und Mechanik*), Gdansk, 09-13.02, 2009
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2008

- Member of the International Program Committee for the *The 7th International Conference on Machine Learning and Applications (ICMLA'08)*, San Diego, California, USA, December 11-13, 2008
- Member of the Technical Committee IJCNN 2008 for *World Congress on Computational Intelligence (WCCI 2008)*, Hong Kong, June 1-6, 2008
- Member of the International Program Committee of the *IASTED International Conference on Artificial Intelligence and Applications, AIA 2008*, Innsbruck, Austria, February 11-13, 2008
- Member of the International Technical Committee for ACHI 2008 - *The First International Conference on Advances in Computer-Human Interaction*, St. Luce, Martinique, February 10-15, 2008
- Member of the International Program Committee for the *ICINCO 5th International Conference on Informatics in Control, Automation and Robotics (IEEE & IFAC)*, Funchal, Madeira (Portugal), May 11-15, 2008
- Member of the International Program Committee for the *First International Conference on Signal Processing, Image Processing and Pattern Recognition (SIP 2008)*, Hainan Island, China, December 13 - 15, 2008
- Member of the International Program Committee for the *6th Atlantic Web Intelligence Conference – AWIC'2008*, Cape Town, South Africa, June 30 - July 03, 2008
- Member of the International Program Committee for the *Fourth International Conference On Signal-Image Technology & Internet-Based Systems (SITIS'2008)*, Bali - Indonesia, November 30 - December 3, 2008
- Member of the International Program Committee for the *Second International Conference on Advanced Engineering Computing and Applications in Sciences ADVCOMP 2008*, Valencia, Spain, September 29 - October 4, 2008
- Member of the International Program Committee for the *International Conference on Computational Science and its Applications (ICCSA 2008)*, Perugia, Italy, June 30 to July 3, 2008
- Member of the International Program Committee for the *ICEIS 2008 - 10th International Conference on Enterprise Information Systems*, Barcelona, June 12 to 16, 2008
- Member of the International Program Committee for the *International Conference on Intelligent Systems Design and Applications (ISDA)*, Kaohsiung, Taiwan, November 26 – 28, 2008
- Member of the International Technical Committee for *European Signal Processing Conference (EUSIPCO-2008)*, Lausanne, August 25 to 29, 2008
- Member of the International Program Committee for the *18th International Conference of Artificial Neural Networks ICANN 2008*, Prague, September 3 to 6, 2008
- Member of the International Program Committee for the *IASTED International Conference on Intelligent Systems and Control (ISC 2008)*, Orlando, November 16 to 18, 2008
- Member of the International Program Committee for the *(ISARC 2008) 25th jubilee International Symposium on Automation and Robotics in Construction*, Vilnius (Lithuania), June 27 to 29, 2008

- Member of the International Program Committee for the *14th Nordic Baltic Conference on Biomedical Engineering*, Riga (Latvia), June 16 to 20, 2008
- Member of the International Program Committee for the *7th International Conference on Computer Information Systems and Industrial Management Applications*, CISIM 2008, Ostrava, June 26 to 28, 2008
- Member of the International Program Committee for the *NTAV / SPA 2008 New Trends in Audio and Video - signal processing algorithms, architectures, arrangements, and applications*, Poznan, September 25-27, 2008
- **Head** of the International Program Committee for the *International Conference of Artificial Intelligence AI-23'2008*, Siedlce, September 18-19, 2008
- Co-Chairmen of the Scientific Committee of the *9th International Conference Artificial Intelligence and Soft Computing*, Zakopane, June 22-26, 2008
- Member of the International Program Committee for the *International Conference on Information Technologies in Biomedicine*, Kamień Śląski, June 16-18, 2008
- Member of the Scientific Committee of the *European Conference Medical Physics And Engineering 110 Years After The Discovery of Polonium and Radium*, Krakow, September 17-21, 2008
- Member of the International Program Committee of the *3rd International Conference on Dependability of Computer Systems DepCoS-RELCOMEX '08*, Szklarska Poreba, June 26-28, 2008
- Member of the International Technical Program Committee for *IMCSIT - International Multiconference on Computer Science and Information Technology*, Wisla October 20-22, 2008
- Member of the International Honorary and Scientific Committee of the *IEEE HSI'08 "Human System Interaction"*, Krakow, May 25-27, 2008
- Member of the International Scientific Committee of the *World Julian Aleksandrowicz Scientific Congress on Psychology in The Service of Man: Expectations or Reality*, Krakow, October 24-25, 2008.
- Member of the International Program Committee of the *MIT'08 (Medical Informatics & Technologies)*, Szczawnica, October 16-18, 2008
- Member of the International Program Committee of the *International Conference Intelligent Information Systems 2008 (IIS 2008)*, Zakopane, Poland, June 16-18, 2008
- Member of the International Program Committee of *ICCS 2008 Advancing Science through Computation*, Krakow, June 23-25, 2008
- Member of the International Program Committee of the *ICCVG'08 - International Conference on Computer Vision and Graphics*, Warsaw, November 10-12, 2008
- Member of the International Technical Program Committee for *3rd International Symposium Advances in Artificial Intelligence and Applications (AAIA'08)*, Wisla, October 20-22, 2008
- Member of the International Program Committee for *AI-METH "Problems of Mobile Robotics"*, Ustron, October 07-09, 2008