

## **Lista publikacji autora**

Przed doktoratem:

- [a1] Doroz R., Piecha J., Wąsik R., Widuch S. System OPTYMAL: sterowanie sygnalizacją świetlną pojedynczego skrzyżowania ulic. *Informatyka*, vol. 10, str. 29–33, 2000
- [a2] Doroz R., Wąsik R., Widuch S. Wskazniki jakości sterowania sygnalizacją świetlną w systemie OPTYMAL. *Zeszyty Naukowe. Transport/Politechnika Śląska*, str. 127–138, 2000
- [a3] Porwik P., Doroz R. Some remarks on medical images compression. *Journal of Medical Informatics & Technologies*, vol. 1, str. 43–48, 2000
- [a4] Porwik P., Wróbel K., Widuch S., Doroz R. The method of preliminary medical images selection. *Journal of Medical Informatics & Technologies*, vol. 2, nr 1, str. 169–176, 2001
- [a5] Doroz R., Lisowska A. Uniwersalny wskaźnik jakości obrazów transportowych. *Materiały konf. Telematyka i bezpieczeństwo ruchu drogowego, ISBN 83-909518-4-3, Ustroń-Jaszowiec*, str. 144–151, 2002
- [a6] Porwik P., Doroz R., Widuch S., Wrobel K. Porównanie stratnych metod kompresji obrazu. *XXXIV Int. Conf. ASIS 02, Ostrava Czech Republic*, str. 195–200, 2002
- [a7] Porwik P., Doroz R., Widuch S., Wrobel K. Szacowanie podobieństwa obrazów z wykorzystaniem transformaty hougha. *XXXIV th Int. Conf. ASIS 02, Ostrava Czech Republic*, str. 171–177, 2002
- [a8] Doroz R., Bargielski M. Bezpieczeństwo sieci komputerowych. *Zeszyty Naukowe WSZiM, Matematyka i Informatyka pod red. Andrzeja Mitasa*, str. 23–29, 2003
- [a9] Doroz R., Bargielski M. Projekt aplikacji monitorującej sieć novell netware. *Zeszyty Naukowe WSZiM, Matematyka i Informatyka pod red. Andrzeja Mitasa, ISSN-1732-1506, Sosnowiec*, str. 13–18, 2003
- [a10] Porwik P., Doroz R., Wrobel K. Searching and identification of transport images by means of the modified hough transformation. *Konferencja Telematyka i Bezpieczeństwo Ruchu Drogowego Tibrd 03, Ustroń-Zawodzie*, str. 126–135, 2003
- [a11] Wrobel K., Doroz R., Widuch S., Goluch P. A method of object similarity research using edge points with the highest curvature. *Proceedings of Telematics and Safety of Road Traffic Conference - TiBRD 2003 Katowice-Ustron, Poland*, str. 136 –144, 2003
- [a12] Porwik P., Doroz R., Widuch S. Specjalizowane oprogramowanie środowiska linux wspomagające pracę osób niewidomych. *Konf. krajowa Informatyka w Edukacji i Kulturze, prac. zbiorowa (red. A. Mitas) Wyd. Wyższej Szkoły Zarządzania i Marketingu, Sosnowiec*, str. 154–162, 2004
- [a13] R. Doroz S. Widuch K.W. Compare the methods of shape identification which consist in the calculation of the function of a shapes contour and the comparison of geometric features of objects. *Materiały IV konferencji naukowo - technicznej Telematyka i Bezpieczeństwo Ruchu Drogowego TiBRD 2004. Katowice-Ustron*, str. 171–180, 2004

- [a14] Widuch S., Doroz R. Similarity investigations of car shapes based on Fourier coefficients. *International Colloquium Advanced Simulation of Systems ASIS 2004, Krnov, Czech Republic*, str. 217–222. 2004
- [a15] Doroz R. Estimation of signature by means of ipan99. *International Colloquium Advanced Simulation of Systems ASIS*, str. 85–90. 2006
- [a16] Doroz R., Widuch S. Signature characteristic points determination by means of the ipan99 algorithm. *Journal of Medical Informatics & Technologies*, vol. 11, 2007
- [a17] T. Para R.D. Using dynamic features and linear regression to signature verification. *W Monografii: Biometryka, Instytut Maszyn Matematycznych, Warszawa, (Print ISBN 978-953-7138-15-8)*, str. 129–138, 2007
- [a18] Doroz R. Badanie podobieństwa podpisów na podstawie analizy punktów charakterystycznych. *Systemy wspomagania decyzji, Instytut Informatyki, US*, str. 311–318, 2008
- [a19] Doroz R., Bargielski M.J. On some optimization of signature recognition. *Journal of Medical Informatics & Technologies*, vol. 12, 2008
- [a20] Doroz R., Mitas M. New methods to determine similarity of signatures based on local extremes. *Journal of Medical Informatics & Technologies*, vol. 12, 2008
- [a21] Doroz R., Porwik P., Para T., Wrobel K. Dynamic signature recognition based on velocity changes of some features. *International Journal of Biometrics*, vol. 1, nr 1, str. 47–62, 2008
- [a22] Wrobel K., Doroz R. New signature similarity measure based on average differences. *Journal of Medical Informatics & Technologies, (ISSN 1642-6037)*, vol. 12, str. 51–56, 2008
- [a23] Doroz R. Zastosowanie metod statystycznych w procesie rozpoznawania podpisów. *Systemy Wspomagania Decyzji, Zakopane*, str. 256–267, 2009
- [a24] Doroz R., Bugdol M. Signature verification based on individual characteristic features. *Biometry – special issue*, str. 77–86. Instytut Maszyn Matematycznych, Warszawa, 2009
- [a25] Doroz R., Wrobel K. Method of signature recognition with the use of the mean differences. *Information Technology Interfaces, 2009. ITI'09. Proceedings of the ITI 2009 31st International Conference on*, str. 231–236. IEEE, 2009
- [a26] Doroz R., Wróbel K., Porwik P. Signatures recognition method by using the normalized levenshtein distances. *Journal of Medical Informatics & Technologies*, vol. 13, 2009
- [a27] Porwik P., Doroz R., Wrobel K. A new signature similarity measure. *Nature & Biologically Inspired Computing, 2009. NaBIC 2009. World Congress on*, str. 1022–1027. IEEE, 2009
- [a28] Porwik P., Wrobel K., Dorosz R. Signature recognition method by means of the windows technique. *Image Processing & Communications*, vol. 14, nr 2-3, str. 43–50, 2009
- [a29] Porwik P., Wrobel K., Doroz R. The polish coins denomination counting by using oriented circular hough transform. *Computer Recognition Systems 3*, str. 569–576. Springer, Berlin, Heidelberg, 2009

- [a30] Wróbel K., Doroz R. New method for finding a reference point in fingerprint images with the use of the ipan99 algorithm. *Journal of Medical Informatics & Technologies*, vol. 13, 2009
- [a31] Wrobel K., Doroz R. The new method of signature recognition based on least squares contour alignment. *Biometrics and Kansei Engineering, 2009. ICBAKE 2009. International Conference on*, str. 80–83. IEEE, 2009
- [a32] Doroz R., Kostorz I. The method for determining the characteristic points of signatures based on ipan99 algorithm. *Journal of Medical Informatics & Technologies*, vol. 15, str. 41–46, 2010
- [a33] Doroz R., Mitas M. Signature verification based on individual characteristic features. In *Monograph Biometry - Special Issue. Centrum Inżynierii Biomedycznej. Gliwice, (ISBN 978-0-9811606-9-6)*, str. 83–92, 2010
- [a34] Doroz R., Wrobel K. Determining the similarity of signatures on the basis of characteristic points analysis. *International Journal of Biometrics*, vol. 2, nr 3, str. 282–294, 2010
- [a35] Porwik P., Doroz R., Wrobel K. A new signature similarity measure based on windows allocation technique. *International Journal of Computer Information Systems and Industrial Management Applications (IJCISIM)*, vol. 2, str. 297–305, 2010
- [a36] Porwik P., Zyguła J., Doroz R., Proksa R. Biometric recognition system based on the motion of the human body gravity centre analysis. *Journal of Medical Informatics & Technologies*, vol. 15, str. 61–69, 2010
- [a37] Rafal D. Wyznaczanie podobieństwa podpisów z wykorzystaniem metody okien. *Systemy Wspomagania Decyzji, Zakopane, (ISBN 978-83-62462)*, str. 323–330, 2010
- [a38] Wróbel K., Doroz R. The method of signature recognition based on least squares contour alignment and windows technique. *Journal of Medical Informatics & Technologies*, vol. 15, str. 35–39, 2010
- [a39] Porwik P., Doroz R., Wrobel K. An ensemble learning approach to lip-based biometric verification, with a dynamic selection of classifiers. *Expert Systems with Applications*, 2018

Po doktoracie:

- [b1] Doroz, R., Porwik, P. *Handwritten signature recognition with adaptive selection of behavioral features.* W Computer Information Systems–Analysis and Technologies, str. 128–136. Springer, Berlin, Heidelberg, 2011.
- [b2] Wrobel, K., Doroz, R. *The method for finding a reference point in fingerprint images basing on an analysis of characteristic points.* W Nature and Biologically Inspired Computing (NaBIC), 2011 Third World Congress on, str. 504–508. IEEE, 2011.
- [b3] Kostorz, I., Doroz, R. *On-line signature recognition based on reduced set of points.* W Computer Recognition Systems 4, str. 3–11. Springer, Berlin, Heidelberg, 2011.
- [b4] Doroz, R., Wróbel, K. *Using hidden markov models in signature recognition process.* Journal of Medical Informatics & Technologies, 21, 2012.

- [b5] Doroz, R., Wrobel, K. *Dynamic signature recognition based on modified windows technique*. W IFIP International Conference on Computer Information Systems and Industrial Management, str. 158–167. Springer, Berlin, Heidelberg, 2012.
- [b6] Pałys, M., Doroz, R., Porwik, P. *The use of methods of statistical analysis in signature recognition system based on levenshtein distance*. Journal of Medical Informatics & Technologies, 21, 2012.
- [b7] Palys, M., Doroz, R., Porwik, P. *Statistical analysis in signature recognition system based on levenshtein distance*. W Proceedings of the 8th International Conference on Computer Recognition Systems CORES 2013, str. 217–226. Springer, Heidelberg, 2013.
- [b8] Porwik, P., Doroz, R. *Biometric features selection with k-nearest neighbours technique and hotelling adaptation method*. W Proceedings of the 8th International Conference on Computer Recognition Systems CORES 2013, str. 247–256. Springer, Heidelberg, 2013.
- [b9] Doroz, R., Porwik, P., Wrobel, K. *Signature recognition based on voting schemes*. W Biometrics and Kansei Engineering (ICBAKE), 2013 International Conference on, str. 53–57. IEEE, 2013.
- [b10] Palys, M., Doroz, R., Porwik, P. *On-line signature recognition based on an analysis of dynamic feature*. W Biometrics and Kansei Engineering (ICBAKE), 2013 International Conference on, str. 103–108. IEEE, 2013.
- [b11] Wrobel, K., Doroz, R., Palys, M. *A method of lip print recognition based on sections comparison*. W Biometrics and Kansei Engineering (ICBAKE), 2013 International Conference on, str. 47–52. IEEE, 2013.
- [b12] Wrobel, K., Doroz, R. *Method for identification of fragments of lip prints images on the basis of the generalized hough transform*. Journal of Medical Informatics & Technologies, 22, 2013.
- [b13] Porwik, P., Doroz, R. *Self-adaptive biometric classifier working on the reduced dataset*. W International Conference on Hybrid Artificial Intelligence Systems, str. 377–388. Springer, Cham, 2014.
- [b14] Doroz, R., Wrobel, K., Watroba, M. *A hybrid system of signature recognition using video and similarity measures*. W International Conference on Hybrid Artificial Intelligence Systems, str. 211–220. Springer, Cham, 2014.
- [b15] Doroz, R., Pałys, M., Orczyk, T., Safaverdi, H. *Method of signature recognition with the use of the complex features*. Journal of Medical Informatics & Technologies, 23, 2014.
- [b16] Doroz, R., Wrobel, K., Palys, M. *Detecting the reference point in fingerprint images with the use of the high curvature points*. W Asian Conference on Intelligent Information and Database Systems, str. 82–91. Springer, Cham, 2015.
- [b17] Porwik, P., Doroz, R., Orczyk, T. *The k-nn classifier and self-adaptive hotelling data reduction technique in handwritten signatures recognition*. Pattern Analysis and Applications, 18(4):str. 983–1001, 2015.

- [b18] Wrobel, K., Doroz, R., Palys, M. *Lip print recognition method using bifurcations analysis*. W Asian Conference on Intelligent Information and Database Systems, str. 72–81. Springer, Cham, 2015.
- [b19] Doroz, R., Porwik, P., Safaverdi, H. *The new multilayer ensemble classifier for verifying users based on keystroke dynamics*. W Computational Collective Intelligence, str. 598–605. Springer, Cham, 2015.
- [b20] Wrobel, K., Doroz, R., Porwik, P., Naruniec, J., Kowalski, M. *Personal identity verification method based on lips photographs*. Journal of Medical Informatics & Technologies, 24:str. 59–65, 2015.
- [b21] Kudłacik, P., Doroz, R. *Determining valuable ranges of handwritten signature using fuzzy approach and window method*. Journal of Medical Informatics & Technologies, 24:str. 23–30, 2015.
- [b22] Doroz, R., Porwik, P., Safaverdi, H. *Person verification based on keystroke dynamics*. Journal of Medical Informatics & Technologies, 24:str. 39–44, 2015.
- [b23] Wrobel, K., Porwik, P., Doroz, R. *Effective lip prints preprocessing and matching methods*. W Proceedings of the 9th International Conference on Computer Recognition Systems CORES 2015, str. 347–357. Springer, Cham, 2016.
- [b24] Doroz, R., Porwik, P., Orczyk, T. *Dynamic signature verification method based on association of features with similarity measures*. Neurocomputing, 171:str. 921–931, 2016.
- [b25] Porwik, P., Doroz, R., Orczyk, T. *Signatures verification based on pnn classifier optimised by pso algorithm*. Pattern Recognition, 60:str. 998–1014, 2016.
- [b26] Wrobel, K., Doroz, R., Porwik, P. *Fingerprint reference point detection based on high curvature points*. W International Conference on Data Mining and Big Data, str. 538–547. Springer, Cham, 2016.
- [b27] Wesołowski, T. E., Porwik, P., Doroz, R. *Electronic health record security based on ensemble classification of keystroke dynamics*. Applied Artificial Intelligence, 30(6):str. 521–540, 2016.
- [b28] Popielski, P., Koprowski, R., Wróbel, Z., Wilczyński, S., Doroz, R., Wróbel, K., Porwik, P. *The matching method for rectified stereo images based on minimal element distance and rgb component analysis*. W International Conference on Computational Collective Intelligence, str. 482–493. Springer, Cham, 2016.
- [b29] Doroz, R., Wrobel, K., Porwik, P., Safaverdi, H., Senejko, M., Jezewski, J., Popielski, P., Wilczynski, S., Koprowski, R., Wróbel, Z. *A new personal verification technique using finger-knuckle imaging*. W International Conference on Computational Collective Intelligence, str. 515–524. Springer, Cham, 2016.
- [b30] Doroz, R., Wrobel, K., Porwik, P., Safaverdi, H. *The method of person verification by use of finger knuckle images*. W International Conference on Computer Recognition Systems, str. 248–257. Springer, Cham, 2017.

- [b31] Wesołowski, T. E., Doroz, R., Wrobel, K., Safaverdi, H. *Keystroke dynamics and finger knuckle imaging fusion for continuous user verification*. W IFIP International Conference on Computer Information Systems and Industrial Management, str. 141–152. Springer, Cham, 2017.
- [b32] Wrobel, K., Doroz, R., Porwik, P., Naruniec, J., Kowalski, M. *Using a probabilistic neural network for lip-based biometric verification*. Engineering Applications of Artificial Intelligence, 64:str. 112–127, 2017.
- [b33] Safaverdi, H., Wesolowski, T. E., Doroz, R., Wrobel, K., Porwik, P. *Computer user verification based on typing habits and finger-knuckle analysis*. W Conference on Computational Collective Intelligence Technologies and Applications, str. 161–170. Springer, Cham, 2017.
- [b34] Wrobel, K., Porwik, P., Doroz, R., Safaverdi, H. *Person verification based on finger knuckle images and least-squares contour alignment*. W Biometrics and Kansei Engineering (ICBAKE), 2017 International Conference on, str. 119–122. IEEE, 2017.
- [b35] Wesolowski, T. E., Safaverdi, H., Doroz, R., Wrobel, K. *Hybrid verification method based on finger-knuckle analysis and keystroke dynamics*. Journal of Medical Informatics & Technologies, 26:str. 26–36, 2017.
- [b36] Doroz, R., Wrobel, K., Porwik, P. *An accurate fingerprint reference point determination method based on curvature estimation of separated ridges*. International Journal of Applied Mathematics and Computer Science, 28(1):str. 209–225, 2018.
- [b37] Wrobel, K., Doroz, R., Porwik, P., Bernas, M. *Personal identification utilizing lip print furrow based patterns. a new approach*. Pattern Recognition, 81:str. 585–600, 2018.
- [b38] Doroz, R., Kudlacik, P., Porwik, P. *Online signature verification modeled by stability oriented reference signatures*. Information Sciences, 460-461:str. 151 – 171, 2018.
- [b39] Porwik, P., Doroz, R., Wrobel, K. *An ensemble learning approach to lip-based biometric verification, with a dynamic selection of classifiers*. Expert Systems with Applications, 115:str. 673 – 683, 2019.
- [b40] Doroz, R. *The method of automatic knuckle image acquisition for continuous verification systems*. Symmetry, 10(11), 2018.