



Curriculum Vitae – Adam Czajka

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1 Personal Data

Department of Computer Science and Engineering
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2 Education

- D.Sc. (“habilitation”), Warsaw University of Technology, Poland, 2018
- Ph.D., Warsaw University of Technology, Poland, 2005 (outstanding dissertation award)
- M.Sc., Warsaw University of Technology, Poland, 2000 (with the highest honors)

3 Experience

3.1 Academic

1. [University of Notre Dame](#)

Department of Computer Science and Engineering
384 Fitzpatrick Hall, Notre Dame, IN 46556, USA

- Aug. 2018 – present: Assistant Professor
(Concurrent Assistant Professor in Electrical Engineering)
- Jan. 2018 – Aug. 2018: Research Assistant Professor
- Jan. 2016 – Dec. 2017: Visiting Assistant Professor
- Aug. 2014 – Dec. 2014: Visiting Associate Professor

2. [Warsaw University of Technology, Poland](#)

Institute of Control and Computation Engineering
Faculty of Electronics and Information Technology
Nowowiejska 15/19, 00-665 Warsaw, Poland

- Apr. 2006 – Aug. 2017: Assistant Professor
- Oct. 2002 – Aug. 2017: Head and co-founder of Biometrics and Machine Learning Laboratory
- Oct. 2003 – Mar. 2006: Research Assistant

3.2 Industrial / R&D

1. [Research and Academic Computer Network – research institute \(NASK\), Poland](#)

Kolska 12, 01-045 Warsaw, Poland

- January 2019 – present: Advisor to the Deputy Director for Research
- Feb. 2006 – December 2018: Assistant Professor
- Jun. 2006 – Jun. 2015: Member of the Scientific Council
- Oct. 2003 – Dec. 2015: V-ce Head and co-founder of Biometrics Laboratory
- Oct. 2002 – Jan. 2006: Research Assistant

2. [Gemplus \(now part of Gemalto\)](#)

Kruczkowskiego 8, 00-380 Warsaw, Poland

- 1998 – 2000: smart cards programming, conducting technical trainings and consulting for European customers (Poland, Czech Republic, Slovakia, Hungary).

4 Honors and Awards

- [Best Paper Award](#)
The 7th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2015), September 8–11, 2015, Arlington, USA
- [Laureate of the INNOVATOR competition organized by the Foundation of Polish Science \(FNP\)](#)
In 2008 the team lead by me was awarded one (out of three) funding promise for commercialization of my Ph.D. ("Modular Iris Recognition System"). There were 26 competing teams in total.
- [Awarded by the Rector of Warsaw University of Technology](#)
 - a) team award for teaching achievements, 2012
 - b) individual award for distinguished doctoral thesis, 2005
 - a) team award for scientific achievements on the European FP5 QoSIPS project, 2002
- [Elevation to the IEEE Senior Member](#), 2012

5 Professional Membership

- [IEEE \(Institute of Electrical and Electronics Engineers; \[iee.org\]\(http://iee.org\)\)](#)
Member: 2002–2012; *Senior Member* since 2012; *Secretary, Poland Section*: 2006–2009; *Member, Conference Committee, IEEE Biometrics Council*: since March 2017; *Member, Education Committee, IEEE Biometrics Council*: since 2017
- [International Association for Identification \(\[theiai.org\]\(http://theiai.org\)\)](#)
Associate Member: since 2018
- [International Standardization Committee \(ISO; \[iso.org\]\(http://iso.org\)\)](#)
Expert, ISO/IEC JTC1 SC 37 on Biometrics: since 2011
- [CEN TC 224 on "Personal identification, electronic signature, cards and their related systems," within WG 18 on "Interoperability of Biometric Recorded Data"](#)
Expert: since 2015
- [Polish Standardization Committee \(PKN; \[pkn.pl\]\(http://pkn.pl\)\)](#)
Technical Committee No. 309 on Biometrics (mirroring ISO/IEC JTC1 SC37)
Expert: since 2009; *Chair*: 2014–2018
- [Polish Standardization Committee \(PKN; \[pkn.pl\]\(http://pkn.pl\)\)](#)
Technical Committee No. 182 on Information Security (mirroring ISO/IEC JTC1/SC27)
Expert: 2007–2017
- [EAB \(European Association for Biometrics; \[eab.org\]\(http://eab.org\)\)](#)
Active Member: since 2012; *Member, EAB Training and Education Committee*: since March 2018
- [INSTICC \(Institute for Systems and Technologies of Information, Control and Communication; \[insticc.org\]\(http://insticc.org\)\)](#)
Member: since 2012
- [Applied Biometrics for the Security of Critical Infrastructures \(under the umbrella of the European Reference Network for Critical Infrastructure Protection \(ERNICIP\) project\)](#)
Expert: 2012–2016
- [Main Council of the Research Institutes in Poland \(RGIB\)](#)
Member: 2015–2016, *Electoral*: 2013–2016 (RGIB is the elective representative body that represents interests of the research institutes to the state and local government authorities, and to the scientific, economic and public organizations as well as to the opinion-forming elites.)
- [Scientific Council of the NASK Research Institute](#)
Member: 2006–2015 (Scientific Council of a research institute is a consultancy body providing opinions to the institute Director related to the most essential aspects of the institute operation.)
- [Bank Technology Forum \(FTB\) – Biometric Experts Group](#)
Member: 2008–2011 (The FTB, part of The Polish Bank Association, creates a technological bridge between key biometric companies, practitioners, researchers and banks operating in Poland.)

6 Technical Publications

6.1 Research Summary

- 1 US patent (granted) + 3 patent applications (PL, EU, US)
- 12 peer-reviewed journal papers (8 having Impact Factor)
- 38 peer-reviewed conference papers
- 9 book chapters
- 16 non-refereed journal papers
- 8 public biometric databases (used by more than 100 institutions from more than 20 countries)
- 1 Best Paper Award
- Google Scholar: top cited papers – 87, 52, 43 citations; 507 citations; h-index 11; i10-index 13

6.2 Patents and Patent Applications

- [P-2018-1] **Adam Czajka**, Zhaoyuan Fang, Kevin W. Bowyer, “Method of Ocular Contact Lens Detection,” Provisional US Patent Application, Oct. 24, 2018
- [P-2011-1] **Adam Czajka**, Andrzej Pacut, Marcin Chochowski, “Method of Eye Aliveness Testing and Device for Eye Aliveness Testing,” US Patent No. 8.061.842, granted on November 22, 2011 (priority date: Sept. 7, 2006)
- [P-2007-1] **Adam Czajka**, Andrzej Pacut, Marcin Chochowski, European Patent Application No. EP20070793967, “Method of Eye Aliveness Testing and Device for Eye Aliveness Testing,” PCT Application No. PCT/PL2007/000063, WIPO WO/2008/030127, Aug. 30, 2007
- [P-2006-1] **Adam Czajka**, Andrzej Pacut, Marcin Chochowski, “Sposób testowania żywotności oka i urządzenie do testowania żywotności oka,” Polish Patent Application, BUP No. 6/2008, Sept. 7, 2006

6.3 Refereed Journals with *Impact Factor*

- [A-2018-3] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, “Iris Recognition After Death,” *IEEE Transactions on Information Security and Forensics*, vol. 14, no. 6, pp. 1501-1514, June 2019; pre-print available at <https://arxiv.org/abs/1804.01962> [IF₂₀₁₇ = 5.824]
- [A-2018-2] Andrey Kuehlkamp, Allan Pinto, Anderson Rocha, Kevin W. Bowyer, **Adam Czajka**, “Ensemble of Multi-View Learning Classifiers for Cross-Domain Iris Presentation Attack Detection,” *IEEE Transactions on Information Security and Forensics*, pp. 1-13, 2018, DOI: 10.1109/TIFS.2018.2878542; pre-print available at <http://arxiv.org/abs/1811.10068> [IF₂₀₁₇ = 5.824]
- [A-2018-1] **Adam Czajka**, Kevin W. Bowyer, “Presentation Attack Detection for Iris Recognition: An Assessment of the State of the Art,” *ACM Computing Surveys*, Vol. 51, No. 4, pp. 86:1–86:35, 2018, DOI: 10.1145/3232849; accepted version available online at <https://arxiv.org/abs/1804.00194>) [IF₂₀₁₇ = 5.550]
- [A-2017-2] **Adam Czajka**, Kevin W. Bowyer, Estefan Ortiz, “Analysis of diurnal changes in pupil dilation and eyelid aperture,” *IET Biometrics*, Vol. 7, No. 2, pp. 136-144, 2017, DOI: 10.1049/iet-bmt.2016.0191 [IF₂₀₁₇ = 1.936]
- [A-2017-1] **Adam Czajka**, Kevin W. Bowyer, Michael Krumdick, Rosaura Vidal Mata, “Recognition of image-orientation-based iris spoofing,” *IEEE Transactions on Information Forensics and Security*, Vol. 12(9), pp. 2184–2196, 2017, DOI: 10.1109/TIFS.2017.2701332 [IF₂₀₁₇ = 5.824, WoS]
- [A-2016-2] **Adam Czajka**, Włodzimierz Kasprzak, Artur Wilkowski, “Verification of iris image authenticity using fragile watermarking,” *Bulletin of the Polish Academy of Sciences. Technical Sciences*, Vol. 64, No. 4, pp. 807–819, 2016, DOI: 10.1515/bpasts-2016-0090 [IF₂₀₁₆ = 1.156, WoS]
- [A-2016-1] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, “Implications of Ocular Pathologies for Iris Recognition Reliability,” *Image and Vision Computing*, Elsevier, 2016, DOI: 10.1016/j.imavis.2016.08.001 [IF₂₀₁₆ = 2.671, WoS]
- [A-2015-1] **Adam Czajka**, “Pupil Dynamics for Iris Liveness Detection,” *IEEE Transactions on Information Forensics and Security*, Vol. 10(4), pp. 726–735, April 2015, DOI: 10.1109/TIFS.2015.2398815 [IF₂₀₁₇ = 5.824, WoS]

6.4 Other Refereed Journals

- [A-2012-1] **Adam Czajka**, Krzysztof Piech, "Secure Biometric Verification Station Based on Iris Recognition," *Journal of Telecommunications and Information Technology (JTIT)*, Vol. 3, pp. 40–49, 2012
- [A-2010-1] **Adam Czajka**, Andrzej Pacut, "Iris Recognition System Based on Zak-Gabor Wavelet Packets," *Journal of Telecommunications and Information Technology (JTIT)*, Vol. 4, pp. 10–18, 2010
- [A-2007-2] **Adam Czajka**, Andrzej Pacut, "Iris Recognition with Adaptive Coding," *Rough Sets and Knowledge Technology, Lecture Notes in Artificial Intelligence*, Vol. 4481, pp. 195–202, Springer, 2007, DOI: 10.1007/978-3-540-72458-2_24 [WoS]
- [A-2007-1] **Adam Czajka**, Przemek Strzelczyk, Andrzej Pacut, "Making iris recognition more reliable and spoof resistant," *SPIE Newsroom*, 2007, DOI: 10.1117/ 2.1200706.0614

6.5 Book Chapters

- [B-2019-1] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, "Iris Recognition in Cases of Eye Pathology," in: Amine Nait-Ali (Ed.), *Biometrics under Biomedical Considerations*, pp. 41-69, Series in BioEngineering, Springer, 2019, DOI: 10.1007/978-981-13-1144-4
- [B-2018-3] **Adam Czajka**, Benedict Becker, "Application of Dynamic Features of the Pupil for Iris Presentation Attack Detection," in: Marcel, Nixon, Fierrez, Evans (Eds.), *Handbook of Biometric Anti-Spoofing* (2nd Edition), pp. 151-168, Advances in Computer Vision and Pattern Recognition book series (ACVPR), Springer, 2018, DOI: 10.1007/978-3-319-92627-8
- [B-2018-2] David Yambay, **Adam Czajka**, Kevin Bowyer, Mayank Vatsa, Richa Singh, Afzel Noore, "Review of Iris Presentation Attack Detection Competitions," in: Marcel, Nixon, Fierrez, Evans (Eds.), *Handbook of Biometric Anti-Spoofing* (2nd Edition), pp. 169-183, Advances in Computer Vision and Pattern Recognition book series (ACVPR), Springer, 2018, DOI: 10.1007/978-3-319-92627-8
- [B-2018-1] Allan Pinto, Helio Pedrini, Michael Krumdick, Benedict Becker, **Adam Czajka**, Kevin W. Bowyer, Anderson Rocha, "Counteracting Presentation Attacks in Face, Fingerprint, and Iris Recognition," Chapter 11 in: Mayank Vatsa, Richa Singh, Angshul Majumdar (Eds.), *Deep Learning in Biometrics*, pp. 245–293, CRC Press, 2018, ISBN: 9781351264990
- [B-2016-1] **Adam Czajka**, "Iris Liveness Detection by Modeling Dynamic Pupil Features," Chapter 19 in: Kevin W. Bowyer, Mark J. Burge (Ed.), *Handbook of Iris Recognition*, Second Edition, pp. 439–467, Springer-Verlag London, 2016, DOI: 10.1007/978-1-4471-6784-6_19
- [B-2014-1] **Adam Czajka**, "Influence of Iris Template Aging on Recognition Reliability," *Communications in Computer and Information Science*, Vol. 452, pp. 284-299, Springer, November 2014, DOI: 10.1007/978-3-662-44485-6_20 [WoS]
- [B-2005-1] Andrzej Pacut, **Adam Czajka**, Przemek Strzelczyk, "Iris biometrics for secure remote access," Chapter in: J. S. Kowalik *et al.* (Ed.), *Cyberspace Security and Defense: Research Issues*, NATO Science Series II: Mathematics, Physics and Chemistry, pp. 259–278, Springer, 2005, DOI: 10.1007/1-4020-3381-8_14 [WoS]
- [B-2004-2] **Adam Czajka**, Andrzej Pacut, "Biometria tęczówki oka," Chapter in: Paweł Zając, Stanisław Kwaśniewski (Ed.), *Automatyczna identyfikacja w systemach logistycznych*, Sec. 7.4, pp. 214-228, Oficyna Wydawnicza Politechniki Wrocławskiej, 2004
- [B-2004-1] **Adam Czajka**, Andrzej Pacut, "Biometria podpisu odręcznego," Chapter in: Paweł Zając, Stanisław Kwaśniewski (Ed.), *Automatyczna identyfikacja w systemach logistycznych*, Sec. 7.7, pp. 244-260, Oficyna Wydawnicza Politechniki Wrocławskiej, 2004

6.6 Conference Proceedings

- [C-2019-6] Jeffery Kinnison, Mateusz Trokielewicz, Camila Carballo, **Adam Czajka**, Walter Scheirer, "Learning-Free Iris Segmentation Revisited: A First Step Toward Fast Volumetric Operation Over Video Samples," The 12th IAPR International Conference On Biometrics (ICB), 4-7 June 2019, Crete, Greece; pre-print available at <https://arxiv.org/abs/1901.01575>
- [C-2019-5] Daniel Kerrigan, Mateusz Trokielewicz, **Adam Czajka**, Kevin Bowyer, "Iris Recognition with Image Segmentation Employing Retrained Off-the-Shelf Deep Neural Networks," The 12th IAPR International Conference On Biometrics (ICB), 4-7 June 2019, Crete, Greece; pre-print available at <https://arxiv.org/abs/1901.01028>
- [C-2019-4] Suraj Mishra, **Adam Czajka**, Peixian Liang, Danny Z. Chen, X. Sharon Hu, "CC-Net: Image Complexity Guided Network Compression for Biomedical Image Segmentation," accepted for The IEEE International Symposium on Biomedical Imaging (ISBI), Venice, Italy, April 8-11, 2019; pre-print available at <https://arxiv.org/abs/1901.01578>
- [C-2019-3] **Adam Czajka**, Zhaoyuan Fang, Kevin W. Bowyer, "Iris Presentation Attack Detection Based on Photometric Stereo Features," The IEEE Winter Conf. on Applications of Computer Vision, Waikoloa Village, Hawaii, January 7-11, 2019; pre-print available at <https://arxiv.org/abs/1811.07252>; patent-pending, see [P-2018-1]
- [C-2019-2] Daniel Moreira, Mateusz Trokielewicz, **Adam Czajka**, Kevin W. Bowyer, Patrick Flynn, "Performance of Human Examiners in Iris Recognition: The Impact of Iris Condition and Annotation-driven Verification," The IEEE Winter Conf. on Applications of Computer Vision, Waikoloa Village, Hawaii, January 7-11, 2019; pre-print available at <https://arxiv.org/abs/1807.05245>
- [C-2019-1] **Adam Czajka**, Daniel Moreira, Kevin W. Bowyer, Patrick Flynn, "Domain-Specific Human-Inspired Binarized Statistical Image Features for Iris Recognition," The IEEE Winter Conf. on Applications of Computer Vision, Waikoloa Village, Hawaii, January 7-11, 2019; pre-print available at <https://arxiv.org/abs/1807.05248>
- [C-2018-3] **Adam Czajka**, Mateusz Trokielewicz, "Presentation Attack Detection for Cadaver Irises," The 9th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2018), Los Angeles, CA, USA; pre-print available at <https://arxiv.org/abs/1807.04058>
- [C-2018-2] Mateusz Trokielewicz, **Adam Czajka**, "Data-Driven Segmentation of Post-mortem Iris Images," 6th IAPR/IEEE International Workshop on Biometrics and Forensics, June 7, 8 2018, Sassari, Italy; pre-print available at <https://arxiv.org/abs/1807.04154>
- [C-2018-1] Ewelina Bartuzi, Katarzyna Roszczewska, Andrzej Pacut, **Adam Czajka**, "Unconstrained Biometric Recognition based on Thermal Hand Images," 6th IAPR/IEEE International Workshop on Biometrics and Forensics, June 7, 8 2018, Sassari, Italy
- [C-2017-2] David Yambay, Benedict Becker, Naman Kohli, Daksha Yadav, **Adam Czajka**, Kevin W. Bowyer, Stephanie Schuckers, Richa Singh, Mayank Vatsa, Afzel Noore, Diego Gragnaniello, Carlo Sansone, Luisa Verdoliva, Lingxiao He, Yiwei Ru, Haiqing Li, Nianfeng Liu, Zhenan Sun, Tieniu Tan, "LivDet iris 2017 – Iris liveness detection competition 2017," The IEEE International Joint Conference on Biometrics (IJCB), Denver, CO, USA, 2017, pp. 733-741, 2017, doi: 10.1109/BTAS.2017.8272763 [WoS]
- [C-2017-1] David Yambay, Brian Walczak, Stephanie Schuckers, **Adam Czajka**, "LivDet-Iris 2015 – Iris Liveness Detection Competition 2015," The IEEE International Conference on Identity, Security and Behavior Analysis (ISBA 2017), New Delhi, India, February 22nd – 24th, 2017 [WoS]
- [C-2016-3] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, "Iris Recognition under Biologically Troublesome Conditions – Effects of Aging, Diseases and Post-mortem Changes," The 10th International Joint Conference on Biomedical Engineering Systems and Technologies BIOSIGNALS (BIOSTEC 2017), Porto, Portugal, 2017, Vol. 4, pp. 253-258, ISBN 978-989-758-212-7 [WoS]
- [C-2016-2] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, "Human Iris Recognition in Post-mortem Subjects: Study and Database," The 8th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2016), September 6–9, 2016, Buffalo, NY, USA, pp. 1–6, DOI: 10.1109/BTAS.2016.7791175 [WoS]

- [C-2016-1] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, "Post-mortem Human Iris Recognition," *The 9th IAPR International Conference on Biometrics (ICB 2016)*, June 13 - 16, 2016, Halmstad, Sweden, pp. 1–6, DOI: 10.1109/ICB.2016.7550073 [\[WoS\]](#)
- [C-2015-4] **Adam Czajka**, Kevin W. Bowyer, "Statistical evaluation of up-to-three-attempt iris recognition," *The 7th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2015)*, pp. 1–6, September 8–11, 2015, Arlington, USA, DOI: 10.1109/BTAS.2015.7358797 [\[WoS\]](#)
- [C-2015-3] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, "Assessment of iris recognition reliability for eyes affected by ocular pathologies," *The 7th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2015)*, pp. 1–6, September 8–11, 2015, Arlington, USA, DOI: 10.1109/BTAS.2015.7358747 **(best paper award)** [\[WoS\]](#)
- [C-2015-2] **Adam Czajka**, Kevin W. Bowyer, "Statistical analysis of multiple presentation attempts in iris recognition," *The 2nd IEEE International Conference on Cybernetics (CYBCONF 2015), Special Session on Reliable Biometrics (BIORELIABILITY 2015)*, Gdynia, Poland, pp. 483–488, June 24–26, 2015, DOI: 10.1109/CYB-Conf.2015.7175982 [\[WoS\]](#)
- [C-2015-1] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, "Database of iris images acquired in the presence of ocular pathologies and assessment of iris recognition reliability for disease-affected eyes," *The 2nd IEEE International Conference on Cybernetics (CYBCONF 2015), Special Session on Reliable Biometrics (BIORELIABILITY 2015)*, Gdynia, Poland, pp. 495–500, June 24–26, 2015, DOI: 10.1109/CYBConf.2015.7175984 [\[WoS\]](#)
- [C-2014-2] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, "Cataract influence on iris recognition performance," *Proceedings of SPIE: Photonics Applications in Astronomy, Communications, Industry, and High-Energy Physics Experiments*, Vol. 9290, November 25, 2014, DOI: 10.1117/12.2076040 [\[WoS\]](#)
- [C-2014-1] David Yambay, James Doyle, Kevin W. Bowyer, **Adam Czajka**, Stephanie Schuckers, "LivDet-iris 2013 – Iris Liveness Detection Competition 2013," *The IEEE International Joint Conference on Biometrics (IJCB 2014)*, Clearwater, Florida, USA, pp. 1–8, 29 September – 2 October 2014, DOI: 10.1109/BTAS.2014.6996283
- [C-2013-3] **Adam Czajka**, "Database of Iris Printouts and its Application: Development of Liveness Detection Method for Iris Recognition," *The 18th IEEE International Conference on Methods and Models in Automation and Control (MMAR2013)*, Miedzyzdroje, Poland, pp. 28–33, August 26–29, 2013, DOI: 10.1109/MMAR.2013.6669876 [\[WoS\]](#)
- [C-2013-2] **Adam Czajka**, Paweł Bulwan, "Biometric verification based on hand thermal images," *The 6th IAPR International Conference on Biometrics (ICB 2013)*, Madrid, Spain, pp. 1–6, June 4–7, 2013, DOI: 10.1109/ICB.2013.6612982 [\[WoS\]](#)
- [C-2013-1] **Adam Czajka**, "Template Ageing in Iris Recognition," in Sergio Alvarez, Jordi Sole-Casals, Ana L. N. Fred, Hugo Gamboa (Ed.): *BIO SIGNALS 2013 – Proceedings of the International Conference on Bio-inspired Systems and Signal Processing, Barcelona, Spain, February 11–14, 2013*, pp. 70–78, SciTePress 2013, ISBN 978-989-8565-36-5
- [C-2008-2] Raul Sanchez-Reillo, Raul Alonso-Moreno, **Adam Czajka**, Young-Bin Kwon, "Automatic Remote Evaluation System for Biometric Testing," *The 10th International Conference on Control, Automation, Robotics and Vision (ICARCV 2008)*, Hanoi, pp. 1137–1143, December 17–20, 2008, DOI: 10.1109/ICARCV.2008.4795681 [\[WoS\]](#)
- [C-2008-1] **Adam Czajka**, Andrzej Pacut, "Replay attack prevention for iris biometrics," *The 42nd Annual 2008 IEEE International Carnahan Conference on Security Technology (ICCST 2008)*, Prague, Czech Republic, pp. 247–253, October 13–16, 2008, DOI: 10.1109/CCST.2008.4751309 [\[WoS\]](#)
- [C-2007-1] **Adam Czajka**, Przemek Strzelczyk, Marcin Chochowski, Andrzej Pacut, "Iris recognition with match-on-card," *The 15th European Signal Processing Conference (EUSIPCO 2007)*, Poznań, Poland, pp. 189–192, September 3–7, 2007
- [C-2006-4] Andrzej Pacut, **Adam Czajka**, "Aliveness detection for iris biometrics," *The 40th IEEE International Carnahan Conference on Security Technology*, Lexington, Kentucky, USA, pp. 122–129, October 17–19, 2006, DOI: 10.1109/CCST.2006.313440 [\[WoS\]](#)

- [C-2006-3] Łukasz Stasiak, **Adam Czajka**, Przemysław Strzelczyk, Marcin Chochowski, Andrzej Pacut, "Od biometrii do bezpiecznej biometrii," *SECURE 2006, Bezpieczeństwo – czas na przełom*, Warsaw, Poland, pp. 1–20, 17-18 października 2006
- [C-2006-2] **Adam Czajka**, Przemek Strzelczyk, "Iris recognition with compact zero-crossing-based coding," Chapter in: Ryszard S. Romaniuk (Ed.), *Proceedings of SPIE: Photonics Applications in Astronomy, Communications, Industry, and High-Energy Physics Experiments*, Vol. 634723, October 12, 2006, DOI: 10.1117/12.714578 [\[WoS\]](#)
- [C-2006-1] Andrzej Pacut, **Adam Czajka**, Przemek Strzelczyk, "Biometrics for Secure Remote Access," *Net-ID 2006 – Identity, Trust, Privacy and Security*, January 30-31, 2006, pp. 1-4, Berlin, 2006
- [C-2005-1] Przemek Strzelczyk, Marcin Chochowski, Andrzej Pacut, **Adam Czajka**, "Biometryczna karta elektroniczna," *SECURE 2005, Bezpieczeństwo – kto ponosi odpowiedzialność*, 25-26 października 2005, Warsaw, Poland, Vol. 2, pp. 134–143, 2005
- [C-2004-1] Andrzej Pacut, **Adam Czajka**, "Biometria w Europie – Projekt BioSec," *SECURE 2004*, Warsaw, Poland
- [C-2003-1] **Adam Czajka**, Andrzej Pacut, "Biometryczna weryfikacja tożsamości – systemy komercyjne i prototypy," *SECURE 2003*, Warsaw, Poland, Vol. 2, pp. 121–131, November 5–6, 2003
- [C-2002-3] **Adam Czajka**, Andrzej Pacut, "Zak's transform for automatic identity verification," *The 4th International Conference on Recent Advances in Soft Computing (RASC 2002)*, December 12–13, 2002, Nottingham, United Kingdom, pp. 374–379, 2002
- [C-2002-2] **Adam Czajka**, Andrzej Pacut, "Neural networks for signature classification and identity verification," *SECURE 2002*, Warsaw, Poland, Vol. 1, pp. 1–7, November 6–7, 2002
- [C-2002-1] **Adam Czajka**, Andrzej Pacut, "Biometria tęczówki oka," *Techniki Komputerowe, Biuletyn Informacyjny*, No. 1/2002, pp. 5–18, ISSN: 0239-8044, Instytut Maszyn Matematycznych, Warsaw, Poland, 2002
- [C-2001-2] **Adam Czajka**, Andrzej Pacut, "Rozpoznawanie podpisów odręcznych jako przykład systemu weryfikacji tożsamości," *Techniki Komputerowe, Biuletyn Informacyjny*, No. 1/2001, pp. 7–24, ISSN: 0239-8044, Instytut Maszyn Matematycznych, Warsaw, Poland, 2001
- [C-2001-1] Andrzej Pacut, **Adam Czajka**, "Recognition of Human Signatures," *The IEEE-INNS-ENNS International Joint Conference on Neural Networks (IJCNN 2001)*, Washington D.C., USA, Vol. 2, pp. 1560–1564, 2001 [\[WoS\]](#)

6.7 Non-refereed Journals

- [N-2009-7] **Adam Czajka**, "Biometria," Chapter 1.2 in: Remigiusz W. Kaszubski (Ed.), "Biometria w bankowości i administracji publicznej," pp. 9–10, Związek Banków Polskich, Warsaw, Poland, 2009
- [N-2009-6] **Adam Czajka**, Andrzej Pacut, "Biometria podpisu odręcznego," Chapter 2.2 in: Remigiusz W. Kaszubski (Ed.), "Biometria w bankowości i administracji publicznej," pp. 15–16, Związek Banków Polskich, Warsaw, Poland, 2009
- [N-2009-5] **Adam Czajka**, Andrzej Pacut, "Biometria tęczówki," Chapter 2.3 in: Remigiusz W. Kaszubski (Ed.), "Biometria w bankowości i administracji publicznej," pp. 16–18, Związek Banków Polskich, Warsaw, Poland, 2009
- [N-2009-4] **Adam Czajka**, Andrzej Pacut, "Biometria dłoni," Chapter 2.5 in: Remigiusz W. Kaszubski (Ed.), "Biometria w bankowości i administracji publicznej," pp. 19–20, Związek Banków Polskich, Warsaw, Poland, 2009
- [N-2009-3] **Adam Czajka**, Andrzej Pacut, "Bezpieczeństwo biometrii," Chapter 3 in: Remigiusz W. Kaszubski (Ed.), "Biometria w bankowości i administracji publicznej," pp. 22–28, Związek Banków Polskich, Warsaw, Poland, 2009
- [N-2009-2] Andrzej Pacut [\[80%](#), **Adam Czajka**, "Standaryzacja biometrii," Chapter 4 in: Remigiusz W. Kaszubski (Ed.), "Biometria w bankowości i administracji publicznej," pp. 29–33, Związek Banków Polskich, Warsaw, Poland, 2009
- [N-2009-1] **Adam Czajka**, Andrzej Pacut, "SDK for Iris Recognition," *NASK Review 2009*, pp. 34–39, 2009

- [N-2007-1] Andrzej Pacut, **Adam Czajka**, Przemysław Strzelczyk, Marcin Chochowski, "Systemy biometrii," *Biuletyn NASK*, No. 1/2007, pp. 36–39, ISSN 1509-3603, 2007
- [N-2006-3] Andrzej Pacut, **Adam Czajka**, Joanna Putz-Leszczynska, Łukasz Stasiak, Rafał Wardziński, "Biometric methods," *NASK Review 2006*, pp. 31–35, 2006
- [N-2006-2] Andrzej Pacut, **Adam Czajka**, Przemysław Strzelczyk, Marcin Chochowski, "Biometric systems," *NASK Review 2006*, pp. 36–39, 2006
- [N-2006-1] Andrzej Pacut, **Adam Czajka**, Joanna Putz-Leszczynska, Łukasz Stasiak, Rafał Wardziński, "Metody biometrii," *Biuletyn NASK*, No. 3/2006, pp. 35–39, ISSN 1509-3603, 2006
- [N-2005-1] Andrzej Pacut, **Adam Czajka**, "Biometria w Europie – Projekt BioSec," *Biuletyn NASK*, No. 1/2005, pp. 26-30, ISSN 1509-3603, 2005
- [N-2003-3] Andrzej Pacut, **Adam Czajka**, "Tęczówka, palec, dłoń ... Biometryczne metody identyfikacji tożsamości," *Biuletyn NASK*, Sept-Oct-Nov 2003, pp. 14-16, 2003
- [N-2003-2] Andrzej Pacut, **Adam Czajka**, "Twój PIN to TY. Metody biometryczne weryfikacji tożsamości, część I," *Biuletyn NASK*, Jan-Feb 2003, pp. 21-26, ISSN 1509-3603, 2003
- [N-2003-1] Andrzej Pacut, **Adam Czajka**, "Twój PIN to TY. Biometryczne metody weryfikacji tożsamości, część II," *Biuletyn NASK*, Mar-Apr-May 2003, pp. 18-24, ISSN 1509-3603, 2003
- [N-2001-1] **Adam Czajka**, "Biometric identification methods," *Konferencja i Warsztaty SecurNet IV*, April 3-6, 2001, Stryków, Poland, Proceedings, pp. 1–11, IDG Poland, 2001

6.8 ArXiv-only

- [R1] Mateusz Trokielewicz, **Adam Czajka**, Piotr Maciejewicz, "Post-mortem Iris Recognition with Deep Learning-based Image Segmentation," pre-print available at <https://arxiv.org/abs/1901.01708>
- [R2] Joseph McGrath, Kevin W. Bowyer, **Adam Czajka**, "Open Source Presentation Attack Detection Baseline for Iris Recognition," pre-print available at <https://arxiv.org/abs/1809.10172>

6.9 Public Databases

- [DB1] **Joint Biometric Dataset – LivDet 2013 Liveness Detection-Iris – Warsaw Subset**. This dataset was prepared for the first international competition on iris presentation attack detection (LivDet-Iris, livedet.org), co-organized jointly by Clarkson University, Warsaw University of Technology and University of Notre Dame. I estimate my overall contribution to the preparation of this set as 90%.
[distributed to 48 institutions from: Brazil, Canada, China, Egipt, Germany, India, Iran, Ireland, Italy, Malaysia, Norway, Russia, Saudi Arabia, South Korea, United Kingdom, USA; papers presenting this dataset: [C-2013-3, C-2014-1]]
- [DB2] **Joint Biometric Dataset – LivDet 2015 Liveness Detection-Iris – Warsaw Subset**. This is an extension of [DB1] and was used in the second edition of the LivDet-Iris competition.
[distributed to 25 institutions from: Brazil, Canada, China, Egipt, Germany, India, Jordan, Malaysia, Russia, Saudi Arabia, South Korea, USA; paper presenting this dataset: [C-2017-1]]
- [DB3] **Joint Biometric Dataset – LivDet 2017 Liveness Detection-Iris – Warsaw Subset**. This is an extension of [DB2]. An important novelty of [DB3], when compared to [DB1] and [DB2], is that test images were acquired by a different sensor and with different quality. This allows for evaluations in more realistic scenarios when the quality of test samples is unknown.
[distributed to 8 institutions from: China, Germany, Italy, South Korea, USA; paper presenting this dataset: [C-2017-2]]
- [DB4] **Warsaw-BioBase-Disease-Iris v1.0**. This dataset encompasses iris images taken from subjects suffering from various eye diseases: cataract, acute glaucoma, posterior and anterior synechiae, retinal detachment, rubeosis iridis, corneal vascularization, iris damage and atrophy, and others. I estimate my contribution to construction of this dataset as 30%.
[distributed to 1 institution from USA; paper presenting this dataset: [C-2015-1]]

- [DB5] **Warsaw-BioBase-Disease-Iris v2.1.** This set is an extension of [DB4].
[\[distributed to 11 institutions from Brazil, Germany, India, Ireland, Jordan, Malaysia, Philippines, Poland, USA; paper presenting this dataset: \[C-2015-3\]\]](#)
- [DB6] **Warsaw-BioBase-Post-Mortem-Iris v1.0.** To my best knowledge, this first database worldwide of iris images taken after death. I estimate my contribution to construction of this dataset as 30%.
[\[distributed to 1 institution from USA; paper presenting this dataset: \[C-2016-2\]\]](#)
- [DB7] **Warsaw-BioBase-Post-Mortem-Iris v2.0.** To my best knowledge, this is the largest database worldwide of iris images taken after death. I estimate my contribution to construction of this dataset as 30%.
[\[paper presenting this dataset: \[A-2018-3\]\]](#)
- [DB8] **Warsaw-BioBase-Pupil-Dynamics v1.0.** To my best knowledge, this is the only database worldwide offering dynamic measurements of the pupil under visible light stimuli. I estimate my contribution to construction of this dataset as 60%.
[\[distributed to 2 institutions from India and USA; papers presenting this dataset: \[A-2016-1, B-2016-1\]\]](#)

7 Grants and Contracts

7.1 Current funding

- [Pro1] (Lead PI) “Software tool and methodology for enhancement of unidentified decedent systems with post-mortem automatic iris recognition,” National Institute of Justice, 2019-2020, \$642,979
[\[co-PIs: Arun Ross, Michigan State University; Dennis Chute, Dutchess County Medical Examiner’s Office; Patrick Flynn, Kevin W. Bowyer, University of Notre Dame\]](#)
- [Pro2] (Lead PI) “Contactless Fingerprint Collection” (CFC), FBI Biometric Center of Excellence (via West Virginia University, USA), 2019-2020, \$219,973
[\[co-PIs: Patrick Flynn, Kevin W. Bowyer, Walter Scheirer, University of Notre Dame\]](#)
- [Pro3] (Lead PI) “Sparse Feature Representations for Presentation Attack Detection in Iris Recognition”, Notre Dame International (Luksic Family Collaboration Grant), 2019-2020, \$9,869
[\[co-PI: Domingo Mery, Pontificia Universidad Católica de Chile\]](#)
- [Pro4] (co-PI at ND) “Unconstrained Text Optical Character Recognition” (OCR), FBI Biometric Center of Excellence (via West Virginia University, USA), 2018-2019, \$194,846
[\[PI: Walter Scheirer, other co-PIs: Patrick Flynn, Kevin W. Bowyer, University of Notre Dame\]](#)
- [Pro5] (co-PI at ND) “Synthesis of Realistic Facial Videos” (SREFV), FBI Biometric Center of Excellence (via West Virginia University, USA), 2018-2019, \$247,391
[\[PI: Patrick Flynn, other co-PIs: Kevin W. Bowyer, Walter Scheirer, University of Notre Dame\]](#)

7.2 Completed

- [Pro6] (PI at ND) “A Tool Supporting Human Examination of Post-mortem Iris Images” (TSHEPII), FBI Biometric Center of Excellence (via West Virginia University, USA), 2017-2018, \$248,407
[\[co-PIs: Kevin W. Bowyer, Patrick Flynn, University of Notre Dame\]](#)
- [Pro7] (Senior researcher at WUT, until Aug. 2017) “enhAnced Mobile BiomEtRics” (AMBER), Marie Skłodowska-Curie Innovative Training Network, 2017-2020, €2,505,152 (≈ \$2,955,878)
[\[Project Coordinator: Richard Guest, University of Kent, UK\]](#)
- [Pro8] (Researcher at ND, Jan. 2016 – May 2016) “Automatic Classification of Left/Right and Up/Down Orientation of Iris Images” (ACII), FBI Biometric Center of Excellence (via West Virginia University), 2015-2016, \$278,160
[\[PI: Kevin W. Bowyer, co-PI: Patrick Flynn\]](#)
- [Pro9] (Site PI and senior researcher at WUT and ND) “Iris Liveness Detection Competition” (LivDet-Iris, <http://livdet.org>). Co-organization of the first iris liveness detection competition (three editions so far: 2013, 2015 and 2017). Co-organizers: Clarkson University, University of Notre Dame, West Virginia University and IIIT-Delhi. Sponsors: CITeR (USA) and NASK (Poland).
[\[PI: Stephanie Schuckers, Clarkson University\]](#)

- [Pro10] (PI and senior researcher at NASK) “Biometric Physical Access Control” (BPAC), R&D project, Research and Academic Computer Network (NASK), April 2014 – December 2015
- [Pro11] (Rerearcher at WUT) “Biometrics and Security” (BIOSEC), EU project under the Sixth Framework Program (IST-2002-001766-BIOSEC), 2003–2005
[\[Project Coordinator: Orestes Sanchez Benavente, Telefónica I+D, Spain\]](#)
- [Pro12] (Dissemination Officer at WUT) “Quality of Service and Pricing Differentiation for IP Services” (QoSIPS), EU project under the Fifth Framework Program (IST-1999-20033), 2000 – 2002
[\[Project Coordinator: Nathalie Cassaigne, Univ. of Manchester, UK\]](#)
- [Pro13] (PI at NASK) “Security analysis and implementation of algorithms increasing the security of biometric sensors,” Hitachi Ltd. R&D project, 2013–2014
- [Pro14] (Senior researcher, 2011 – 2013, and site PI, Aug. 2013 – Dec. 2013 at NASK) “Biometric techniques and PKI in modern identification documents” (BIOPKI), R&D project, The National Centre for Research and Development (NCBiR), 2011–2013, 6,265,229.49 PLN (\approx \$1,720,550)
- [Pro15] (Senior researcher at NASK) “Secure station for special purposes” (BSDZS), R&D project, The National Centre for Research and Development (NCBiR), 2010–2012, 3,983,200 PLN (\approx \$1,093,862)
- [Pro16] (Site PI at NASK, and member of the project Steering Committee) “Platform of secure implementation of biometrics” (PBIB), R&D project, Ministry of Science and Higher Education, Department of Security Research, 2009–2011, 2,200,000 PLN (\approx \$604,161)
- [Pro17] (PI and senior researcher at NASK) “SDK for Iris Recognition” (BiomIrisSDK), R&D project, Research and Academic Computer Network (NASK), March 2007 – September 2008

7.3 Equipment Grant

- [Pro18] (Coordinator of modernization and development of the Biometrics and Machine Learning Laboratory at WUT) “Photonics and Terahertz Technologies – Development of the Faculty Research Center” (FOTEH), project under Innovative Economy EU Program (POIG), 2010 – 2011, 38,177,390.68 PLN (\approx \$10,484,233)

8 Technical Presentations

8.1 Invited Lectures / Panels

The names and affiliations of the inviting persons are provided in brackets.

1. “Post-mortem iris: going beyond using off-the-shelf iris recognition methods,” *Iris Experts Group – II (IEG)*, NIST, Gaithersburg, MD, June 27, 2019
[\[Dr. James R. Matey, National Institute of Standards and Technology\]](#)
2. “Failure to Enroll rates – Panel” *Iris Experts Group – II (IEG)*, NIST, Gaithersburg, MD, June 27, 2019
[\[Dr. James R. Matey, National Institute of Standards and Technology\]](#)
3. “Post-mortem Iris Recognition,” *Iris Experts Group – II (IEG)*, NIST, Gaithersburg, MD, June 28, 2018
[\[Dr. James R. Matey, National Institute of Standards and Technology\]](#)
4. “Postmortem Iris Recognition,” *Biometric Working Group Meeting*, University of Notre Dame – London Gateway, UK, June 8, 2017
[\[Dr. James Wayman, San Jose State University, USA and Prof. Kevin Bowyer, University of Notre Dame, USA\]](#)
5. “Is That Eyeball Alive or Dead?,” *Scientific Seminar of the Biomedical Signal Analysis Lab*, Clarkson University, Potsdam, NY, February 3, 2017
[\[Prof. Stephanie Schuckers, Clarkson University\]](#)
6. “Post-mortem Human Iris Recognition,” *Biometrics 2016*, London, UK, October 20, 2016
[\[Prof. Kevin W. Bowyer, University of Notre Dame\]](#)
7. “Post-mortem Human Iris Recognition,” *Iris Experts Group – II (IEG)*, NIST, Gaithersburg, MD, June 28, 2016
[\[Dr. James R. Matey, National Institute of Standards and Technology\]](#)

8. "Reliability of Iris Recognition," *Scientific Seminar of the Institute of Telecommunications and Computer Science*, UTP University of Science and Technology, Bydgoszcz, Poland, November 12, 2015
[Prof. Michał Choraś, UTP]
9. "Presentation Attack Detection in iris recognition," Distinguished Lecturer during the *Norwegian Biometrics Laboratory Annual Workshop (NBLAW 2015)*, Gjøvik, Norway, March 2, 2015
[Dr. Raghavendra Ramachandra, Norwegian University of Science and Technology, Norway]
10. "Presentation Attack Detetion (PAD) in iris recognition," *European Biometrics Symposium*, London, UK, February 25, 2015
[Dr. Max Snijder, European Association for Biometrics, Netherlands]
11. "How to assess the iris aging efficiently?," *Biometric Consortium Conference (BCC 2013)*, Tampa, FL, September, 13–21, 2013; right after the lecture I was a panelist in the discussion on iris template aging
[Dr. James R. Matey, National Institute of Standards and Technology]

8.2 Active Participation in Scientific Conferences and Seminars

Below I list scientific conferences on which I presented my research results (in addition to events listed in Sec. 8.1). I cite the presented papers in the brackets, where appropriate.

- IEEE Winter Conf. on Applications of Computer Vision (WACV):
2019 (Waikoloa Village, Hawaii, USA) [C-2019-3, C-2019-2, C-2019-1]
- IEEE Int. Conference on Biometrics: Theory, Applications and Systems (BTAS):
2015 (Arlington, USA) [C-2015-4], 2018 (Los Angeles, USA) [A-2018-1, A-2017-1]
- IEEE Int. Conference on Cybernetics (CYBCONF):
2015 (Gdynia, Poland) [C-2015-2]
- IEEE Workshop on Bio-Inspired Signal and Image Processing (BISIP):
2014 and 2010 (Vilnius, Lithuania), 2008 (Warsaw, Poland)
- Int. Biometric Performance Conference (IBPC):
2014, 2012 and 2010 (NIST, Gaithersburg, MD, USA)
- Int. Joint Conference on Biomedical Engineering Systems and Technologies (BIOSIGNALS):
2013 (Barcelona, Spain) [B-2014-1, C-2013-1]
- IEEE Int. Conference on Methods and Models in Automation and Control (MMAR):
2013 (Międzyzdroje, Poland) [C-2013-3]
- IAPR Int. Conference on Biometrics (ICB):
2013 (Madrid, Spain) [C-2013-2]
- IEEE Int. Carnahan Conference on Security Technology (ICCST):
2008 (Prague, Czech Republic) [C-2008-1]
- Joint Rough Set Symposium (JRS):
2007 (Toronto, Canada) [A-2007-2]
- Identity, Trust, Privacy and Security (Net-ID):
2006 (Berlin, Germany) [C-2006-1]
- Automatic Identification in Logistics – Scientific and Technical Symposium:
2004 (Wrocław, Poland) [B-2004-2, B-2004-1]
- Cyberspace Security and Defense: Research Issues (NATO Advanced Research Workshop):
2004 (Gdańsk, Poland) [B-2005-1]
- Int. Conference on Recent Advances in Soft Computing (RASC):
2002 (Nottingham, UK) [C-2002-3]
- Biometrics:
2002 and 2001 (Warsaw, Poland) [C-2002-1, C-2001-2]

8.3 Active Participation in Other Technical Conferences and Meetings

Below I list selected presentations during non-scientific meetings and conferences (in addition to events listed in Sec. 8.1 and 8.2). Where appropriate, original Polish titles are provided in brackets.

1. **Adam Czajka**, Daniel Moreira, Mateusz Trokielewicz, Piotr Maciejewicz, Patrick Flynn, Kevin Bowyer, "Post-mortem Iris Recognition," *Iris Experts Group Meeting*, June 28, 2018, NIST, Gaithersburg, MD, USA
2. **Adam Czajka**, Mateusz Trokielewicz, Piotr Maciejewicz, "Post-mortem Human Iris Recognition," *Iris Experts Group Meeting*, June 28, 2016, NIST, Gaithersburg, MD, USA
3. **Adam Czajka**, "Security of Biometric Sensors" (PL: "Bezpieczeństwo sensorów biometrycznych"), *AEGIS – Future of forensics and network security*, July 3, 2013, Warsaw, Poland
4. Panelist during *e-Economy Congress* (PL: *Kongres Gospodarki Elektronicznej*), June 18, 2013, Warsaw, Poland
5. **Adam Czajka**, "Presentation attack detection for iris recognition," *LG Technology Fair*, March 25, 2016, Warsaw, Poland
6. **Adam Czajka**, Andrzej Pacut, "Security of Iris Recognition: Presentation Attack Detection" (PL: "Bezpieczeństwo biometrii tęczówki: testowanie żywotności oka"), *Biometrics in Law and Forensics* (PL: *Biometria w prawie i kryminalistyce*), March 29, 2012, Warsaw, Poland
7. **Adam Czajka**, Andrzej Pacut, "Biometric Identification: Security or Privacy?" (PL: "Biometryczne rozpoznawanie tożsamości. Bezpieczeństwo czy prywatność?"), lecture for "University of the Third Age," May 5, 2011, Warsaw University of Technology, Warsaw, Poland
8. **Adam Czajka**, lecture on "Evaluation of Biometric Sensors and Systems: Platform of Secure Implementation of Biometrics" and panelist in "Biometrics in Banking," *Spring Biometric Summit*, April 14–15, 2011, Warsaw/Miedzeszyn, Poland
9. **Adam Czajka**, Andrzej Pacut, "Secure Implementation of Biometrics" (PL: "Bezpieczne implementacje biometrii"), *Documents and Law*, November 5, 2010, Warsaw, Poland
10. Andrzej Pacut, **Adam Czajka**, "Biometrics for Security and Security of Biometrics" (PL: "Biometria dla bezpieczeństwa i bezpieczeństwo biometrii"), *Meeting of the Cybernetics Committee of the Polish Academy of Sciences*, April 23, 2010, Bydgoszcz, Poland
11. **Adam Czajka**, "Secure Implementation of Biometrics" (PL: "Bezpieczna implementacja biometrii"), *Briefing of the Management Staff of the Police Academy in Szczytno*, October 1, 2009, Szczytno, Poland
12. **Adam Czajka**, "IEEE Poland Section," *Young Scientists and Current Research Challenges*, IV Technical Conference, September 23, 2009, Warsaw (invited as the member of the board of the IEEE Poland Section)
13. **Adam Czajka**, "Security and Biometrics" (PL: "Bezpieczeństwo a biometria"), *Spring Biometric Summit*, May 21–22, 2009, Warsaw/Miedzeszyn, Poland
14. **Adam Czajka**, "Biometric Security Products" (PL: "Biometryczne produkty bezpieczeństwa"), *SECURE 2008*, October 3, 2008, Warsaw, Poland
15. **Adam Czajka**, "Need for testing and certification of biometrics in Europe," *Meeting of the Focus Group on Biometrics*, September 29, 2008, London, UK
16. **Adam Czajka**, "IEEE Poland Section," *Young Scientists and Current Research Challenges*, III Technical Conference, September 24, 2008, Warsaw (invited as the member of the board of the IEEE Poland Section)
17. **Adam Czajka**, "Biometrics: security for information societies," twice: during *FP7 Inauguration*, November 21–23, 2006, Helsinki, Finland, and during *FP7 Inauguration*, November 17, 2006, Warsaw, Poland
18. **Adam Czajka**, "Biometric Identification – Future of Security" (PL: "Biometryczna identyfikacja – przyszłość bezpieczeństwa"), *CryptoCon 2006*, August 30–31, 2006, Warsaw, Poland
19. Demonstration of my iris recognition system with presentation attack detection during *Biometrics – Conference & Exhibition*, London, UK, 2006 – 2009

9 Teaching Activities

9.1 Teaching Areas

- Biometrics
- Computer Vision
- Neural Networks
- Pattern Recognition and Machine Learning

9.2 University of Notre Dame

- *Biometrics* (CSE 40537/60537): Fall 2014, Spring 2017, Spring 2018, Spring 2019
- *Computer Vision* (CSE 40535/60535): Spring 2016, Fall 2017, Fall 2018
- *Introduction to Neural Networks* (CSE 60868/40868): Fall 2016
- Summer research with two REU students (Michael Krumdick, Benedict Becker), and adviser for undergraduate research of six students (Benedict Becker, Daniel Kerrigan, Zhaoyuan Fang, Matthew Lanus, Erin Thomassen, Joseph McGrath)

9.3 Warsaw University of Technology, Poland

- *Biometric Identity Verification (BIT)*: Fall 2006, Spring 2009, Spring and Fall 2010, Spring and Fall 2011, Spring and Fall 2012, Spring and Fall 2013, Spring 2014, Fall 2015
- Postgraduate Studies on *Security of IT Systems and Biometric Technology*: co-founder, Head and lecturer, 2011 – 2017
- Co-Adviser of one PhD student (Mateusz Trokielewicz), since Oct. 2014
- Adviser of 9 MSc students (two of them completed with the highest honors) and 20 BSc students, 2003 – 2016
- Mentor of the *Biometric Scientific Club*, 2014 – 2018
- Laboratory classes: *Operational Research*, *Object Programming in C++*, *Neural Networks*, 2000–2005

9.4 Warsaw School of Information Technology, Poland

- Laboratory and practical classes: *Operational Research*, 2002 – 2003

10 Professional Activities

10.1 Chair / Volunteer Work

- **Finance Co-Chair:**
International Joint Conference on Biometrics (IJCB 2020)
International Conference on Automatic Face and Gesture Recognition (FG 2019)
- **Sponsorship Co-Chair:**
Biometrics: Theory, Applications and Systems (BTAS 2019)
- **Publicity Co-Chair:**
International Joint Conference on Biometrics (IJCB 2017)
- **Area Chair (iris recognition):**
IAPR International Conference on Biometrics (ICB 2016 and 2018)
IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2015 and 2018)
- **General Co-Chair:**
Special Session on Biometric Reliability, IEEE International Conference on Cybernetics (CYBCONF 2015)

10.2 Program Committee Member

- IEEE Winter Conference on Applications of Computer Vision (WACV 2019)
- International Symposium on Visual Computing (ISVC 2018, 2019)
- International Joint Conference on Biometrics (IJCB 2017)
- International Workshop on Multimedia Forensics and Security (MFSec 2017)

- IEEE International Conference on Identity, Security and Behavior Analysis (ISBA 2017)
- IAPR International Conference on Biometrics (ICB 2016 and 2018)
- IEEE International Conference of the Biometrics Special Interest Group (BIOSIG 2013 – 2018)
- International Conference on Bio-Inspired Systems and Signal Processing (BIOSIGNALS 2014 – 2019)
- IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2015, 2016, 2018)
- IEEE International Conference on Cybernetics (CYBCONF 2015)
- International Conference on Image Processing & Communications (IP&C 2015)
- IEEE Workshop on Bio-Inspired Signal and Image Processing (BISIP 2008, 2010 and 2014)

10.3 Reviewing

- [IET Biometrics](#)
Member of the *Editorial Board*, since May 2016
- [IEEE Access](#)
Associate Editor, since April 2015
- [Journals](#)
IEEE Transactions on Information Forensics and Security, IEEE Access, IET Image Processing, IET Computer Vision, IET Biometrics, Pattern Recognition Letters, Journal of Visual Communication and Image Representation, EURASIP Journal on Information Security, International Journal of Biometrics, Machine Graphics & Vision, Hindawi
- [Projects](#)
Submitted to Ministry of Science and Higher Education in Poland, and Foundation of Polish Science (FNP)
- [PhD Dissertations](#)
Five reviews for *Universidad Carlos III de Madrid*, *Departamento de Tecnologia Electronica*, Spain, and Carleton University, Canada. Czajka has served multiple times on the Ph.D. defense committees at the University of Notre Dame.

11 Private Activities

- Licensed glider pilot (FAA)
- Licensed yacht skipper (PYA and ISSA)
- Art: classical guitar, dry pastel painting, photography