

## - publications in journals

1. K. Andrzejewski, J. Gonera, P. Maślanka: „*Euclidean path integral and higher-derivative theories*”, Prog. Theor. Phys. Vol. 125 No. 2 (2011), 247-259
2. S. Fedoruk, P. Kosiński, J. Lukierski, P. Maślanka: „*Nonrelativistic counterparts of twistors and the realizations of Galilean conformal algebra*”, Phys. Lett. B 699 (2011), 129-134
3. K. Bolonek-Lasoń, P. Kosiński: “*Note on log-periodic description of 2008 financial crash*”, Physica A 390 (2011), 4332-4339
4. P. M. Hajac, U. Krähmer, R. Matthes, B. Zielinski: “*Piecewise principal comodule algebras*”, J. Noncommut. Geom. 5 (2011), 591-614
5. B. Lesiak, J. Zemek, J. Houdkova, P. Jiricek, A. Jóźwik: „*Studies of EPES REELS spectra of polyethylenes aided by line shape analysis – Effect of electron irradiation*”, Journal of Electron Spectroscopy and Related Phenomena 184 (2011), 360-365
6. J. Sławińska, P. Dąbrowski, I. Zasada: „*Doping of graphene by a Au(111) substrate: Calculation strategy within the local density approximation and a semiepirical van der Waals approach*”, Phys. Rev. B 83 (2011), 245429 [8 pages]
7. J. Sławińska, I. Zasada: “*Fingerprints of Dirac points in first-principles calculations of scanning tunneling spectra of graphene on a metal substrate*”, Phys. Rev. B 84 (2011), 235445 [6 pages]
8. K. Andrzejewski, P. G. Walczak: “*Conformal fields and the stability of leaves with constant higher order mean curvature*”, Diff. Geom. Appl. 29 (2011) 723-729
9. Ś. Sobieski, B. Zielinski: “*Modularisation in Maude of parametrized RBAC for row level access control*”, Advances in Databases and Information Systems, Proc. 15<sup>th</sup> International Conference, ADBIS 2011, Vienna, Austria, September 20-23, 2011, series: Lecture Notes in Computer Science vol. 6909, eds. J. Eder, M. Bielikova, A. M. Tjoa, ISSN: 0302-9743, ISBN: 978-3-642-23736-2, Springer-Verlag Berlin Heidelberg 2011, 401-414
10. A. Skorupski, M. Szyprowski, P. Kerntopf: “*Algorytm syntezy kombinacyjnych układów odwracalnych*”, Pomiary Automatyka Kontrola, vol. 57, nr 8, 2011, 858-860
11. M. Szyprowski, P. Kerntopf: “*Realizacje układów odwracalnych w technologiach półprzewodnikowych*”, Pomiary Automatyka Kontrola, vol. 57, nr 8, 2011, 911-913  
(publications 10 and 11 presented at the XIV scientific conference “Conference on Reconfigurable Ubiquitous Computing RUC’2011”, Szczecin, 26-27.05.2011 r. )
12. R. Vorobel, M. Stobińska: „*Rozszerzony model logarytmicznego przetwarzania obrazów*”, Automatyka 2011, t. 15, z. 3, 295-308 (presented at the scientific seminar „Signal processing and analysis in vision and control systems”, Słok, 15-17. 06. 2011 r.)
13. K. Miodek, K. Podlaski, Ś. Sobieski, B. Zielinski: “*Some remarks on optimization impact on database security*”, Studia Informatica Vol. 32, No 2B (97), 2011, 249-258 (presented at VII scientific conference „Databases: Applications and Systems BDAS’11”, Ustroń, 31.05-03.06.2011 r.)
14. A. Jóźwik, B. Sokołowska, I. Niebroj-Dobosz, P. Janik, H. Kwieciński: „*Extraction of biomedical traits for patients with Amyotrophic Lateral Sclerosis using parallel and hierarchical classifiers*”, Int. J. Biometrics, Vol. 3, No. 1, 2011, 85-94

15. L. Kompanets, P. Milczarski: *“On asymmetry and fuzziness of cognitive-mental traits of personality, possibility of the mental worker productivity theory creation”*, *Metody Informatyki Stosowanej* (Kwartalnik Komisji Informatyki Polskiej Akademii Nauk Oddział w Gdańsku) nr 5/2011 (30), 189-198
16. P. Milczarski, L. Kompanets: *“On hypothesis realization of the neutral-sided, right-sided, left-sided personality, and creation necessity of the precise generation face base, for modern biometrics”*, *Metody Informatyki Stosowanej* (Kwartalnik Komisji Informatyki Polskiej Akademii Nauk Oddział w Gdańsku) nr 5/2011 (30), 199-205  
(publications 15 and 16 presented at 18th International Multi-Conference ACS-AISBIS 2012”, Międzyzdroje, 30.05-01.06.2012)
17. M. Lukac, M. Kameyama, M. Perkowski, P. Kerntopf: *“Decomposition of Reversible Logic Function Based on Cube-Reordering”*, *Facta Universitatis (Niš)*, Ser.: Elec. Energ, vol. 24, no. 3, December 2011, 403-422

### **- conference publications**

1. M. Lukac, M. Kameyama, M. Perkowski, P. Kerntopf: *“Decomposition of reversible logic function based on cube-reordering”*, Proc. 10<sup>th</sup> Reed-Muller 2011 Workshop, May 25-26, 2011, Tuusula, Finland, 63-70
2. M. Szyprowski, P. Kerntopf: *“Reducing quantum cost in reversible toffoli circuits”*, Proc. 10<sup>th</sup> Reed-Muller 2011 Workshop, May 25-26, 2011, Tuusula, Finland, 127-136
3. P. Kerntopf, M. Szyprowski: *„Symmetry in reversible functions and circuits”*, Proc. 20<sup>th</sup> IEEE/ACM International Workshop on Logic and Synthesis IWLS, San Diego, California, USA, June 3-5, 2011, 67-73
4. M. Lukac, M. Perkowski, M. Kameyama, N. Alhagi, P. Kerntopf: *“Synthesis of reversible cascades from relational specifications”*, Proc. 3<sup>rd</sup> Workshop on Reversible Computation, July 4-5, 2011, Gent, Belgium, 71-76
5. P. Kerntopf: *“Research on reversible computation in the year 2010”*, Proc. 3<sup>rd</sup> Workshop on Reversible Computation, July 4-5, 2011, Gent, Belgium, 79-90
6. M. Szyprowski, P. Kerntopf: *“An approach to quantum cost optimization in reversible circuits”*, Proc. 11<sup>th</sup> IEEE International Conference on Nanotechnology IEEE NANO 2011, Portland, Oregon, USA, August 15-18, 2011, 1521-1526
7. K. Pytel: *“The fuzzy genetic strategy for multiobjective optimization”*, Proc. Federated Conference on Computer Science and Information Systems FedCSIS 2011, September 18-21, 2011, Szczecin, Poland, ed. M. Ganzha, L. Maciaszek, M. Paprzycki, ISBN: 978-83-60810-39-2, IEEE Computer Society Press 2011, 97-101
8. R. Vorobel: *“Parametric algebraic models for image processing”*, Proc. IX<sup>th</sup> International Conference “Mathematical Support and Software for Artificial Intelligence 2011”, November 23-25, 2011, Dnipropetrovsk, Ukraine, 59-60

### **- chapters in monographs in English**

1. K. Pytel, T. Nawarycz: *„The modified genetic algorithm for the optimization of functions of many variables”*, Selected Topics in Computer Science Applications, ed. D. Rutkowska, A. Cader, K. Przybyszewski, ISBN: 978-83-60434-94-9, Academic Publishing House Exit, Warszawa 2011, 64-76
2. P. Milczarski: *“A fuzzy logic advisor to facial asymmetry type recognition”*, Selected Topics in Computer Science Applications, ed. D. Rutkowska, A. Cader,

- K. Przybyszewski, ISBN: 978-83-60434-94-9, Academic Publishing House Exit, Warszawa 2011, 151-163
3. P. Milczarski, P. Bronclik: „*Designing API for creating the neural network for face identification*”, Selected Topics in Computer Science Applications, ed. D. Rutkowska, A. Cader, K. Przybyszewski, ISBN: 978-83-60434-94-9, Academic Publishing House Exit, Warszawa 2011, 176-199
  4. A. Hłobaż: “*Modern steganographic methods and its practical applications*”, Selected Topics in Computer Science Applications, ed. D. Rutkowska, A. Cader, K. Przybyszewski, ISBN: 978-83-60434-94-9, Academic Publishing House Exit, Warszawa 2011, 257-267
  5. Z. Stawska: “*The classifiers with the local decision credibility estimation*”, Selected Topics in Computer Science Applications, ed. D. Rutkowska, A. Cader, K. Przybyszewski, ISBN: 978-83-60434-94-9, Academic Publishing House Exit, Warszawa 2011, 268-279

(publications 1- 5 presented at „5th Polish and International PD Forum-Conference on Computer Science FCCS 2011”, Łódź, 16-18.05.2011 r.)

6. P. Milczarski: „*A new method for face identification and determining facial asymmetry*”, Semantic Methods for Knowledge Management and Communication, eds. R. Katarzyniak et al., series Studies in Computational Intelligence vol. 381, ISBN: 978-3-642-23417-0, Springer-Verlag Berlin Heidelberg 2011, 329-340 (presented at „3rd International Conference on Computational Collective Intelligence - Technologies and Applications ICCCI 2011”, Gdynia, 21-23.09.2011 r.)
7. M. Pyka, Ś. Sobieski: „*Implementation of the OCTAVE Methodology in Security Risk Management Process for Business Resources*”, Internet – Technical Developments and Applications 2, eds. A. Kapczyński et al., series Advances in Intelligent and Soft Computing, vol. 118, ISBN: 978-3-642-25354-6, ISSN: 1867-5662, Springer-Verlag Berlin Heidelberg 2011, 235-252

#### **- textbooks**

1. 4<sup>th</sup> revised edition:
  - K. Pytel, S. Osetek: „*Systemy operacyjne i sieci komputerowe część 1*”, ISBN: 9788302112652, Wydawnictwa Szkolne i Pedagogiczne, Warszawa 2011
  - K. Pytel, S. Osetek: „*Systemy operacyjne i sieci komputerowe część 2*”, ISBN: 9788302112676, Wydawnictwa Szkolne i Pedagogiczne, Warszawa 2011