

Maciej Wielgus

Lista publikacji

z dnia 31 października 2015

Książki i monografie

1. Trusiak M., Patorski K., Wielgus M., ***Fast adaptive processing of low quality fringe patterns by automated selective reconstruction and enhanced fast empirical mode decomposition***, [w:] *Fringe 2013*, Springer-Verlag, Stuttgart 2014, s. 185-190.
2. Wielgus M., Patorski K., ***Filtering ESPI fringes with non-local means algorithm***, [w:] *Fringe 2013*, Springer-Verlag, Stuttgart 2014, s. 317-320.
3. Wielgus M., Putz B., ***Comparative analysis of image fusion performance evaluation methods for the real-time environment monitoring system***, [w:] *Advances in Intelligent Systems and Computing Vol. 184* Springer-Verlag, Bydgoszcz 2013, s. 119-126.
4. Putz B, Bartyś M., Antoniewicz A., Klimaszewski J., Kondej M., Wielgus M., ***Real-time Image Fusion Monitoring System: Problems and Solutions***, [w:] *Advances in Intelligent Systems and Computing Vol. 184*, Springer-Verlag, Bydgoszcz 2013, s. 143-152.

Publikacje w czasopismach

1. Wielgus M., Kluźniak W., Sądowski A., Narayan R., Abramowicz M., 2015, ***Stable, levitating, optically thin atmospheres of Eddington-luminosity neutron stars***, *Monthly Notices of the Royal Astronomical Society* (2015): zaakceptowany
2. Wielgus M., Sunderland Z., Patorski K., 2015, ***Two-frame tilt-shift error estimation and phase demodulation algorithm***, *Optics Letters* 40(15): s. 3460-3463
3. Wielgus M., Fragile. P. Ch., Wang Z., Wilson J., 2015, ***Local stability of strongly magnetized black hole tori***, *Monthly Notices of the Royal Astronomical Society* 447: s. 3593-3601
4. Wielgus M., Ellis G. F. R., Vincent F., Abramowicz M., 2014, ***Cosmic background radiation in the vicinity of a Schwarzschild black hole: no classic firewall***, *Physical Review D* 90: 124024
5. Wielgus M., Patorski K., Etchepareborda P., Federico A., 2014, ***Continuous phase estimation from noisy fringe patterns based on the implicit smoothing splines***, *Optics Express* 22 (9): s. 10775-10791
6. Wielgus M., Patorski K., 2014, ***Denoising and extracting background from fringe patterns using midpoint-based bidimensional empirical mode decomposition***, *Applied Optics* 53 (10): s. B215-B222
7. Abramowicz M., Ellis G. F. R., Horak J., Wielgus M., 2014, ***The perihelion of Mercury advance and the light bending calculated in (enhanced) Newton's theory***, *General Relativity and Gravitation* 46: s. 1630
8. Borysiewicz M., Wojciechowski T., Dynowska E., Wielgus M., Bar J., Wojtowicz T., Kamińska E., Piotrowska A., 2014, ***Nanocoral ZnO films fabricated on flexible poly(vinyl chloride) using a carrier substrate***, *Thin Solid Films* 550: s. 145-148
9. Trusiak M., Wielgus M., Patorski K., 2014, ***Advanced processing of optical fringe patterns by automated selective reconstruction and enhanced fast empirical mode decomposition***, *Optics and Lasers in Engineering* 52: s. 230-240

10. Stahl A., Kluźniak W., Wielgus M., Abramowicz M., 2013, ***Escape, capture, and levitation of matter in Eddington outbursts***, *Astronomy & Astrophysics* 555: s. A114
11. Patorski K., Wielgus M., Ekielski M., Kaźmierczak P., 2013, ***AFM nanoimprint technique with phase multiplication***, *Measurement Science and Technology* 24: s. 035402
12. Trusiak M., Patorski K., Wielgus M., 2012, ***Adaptive enhancement of optical fringe patterns by selective reconstruction using FABEMD algorithm and Hilbert spiral transform***, *Optics Express* 20(21): s. 23463-23479
13. Wielgus M., Stahl A., Abramowicz M., Kluźniak W., 2012, ***Oscillations of the Eddington capture sphere***, *Astronomy & Astrophysics* 545: s. A123
14. Stahl A., Wielgus M., Abramowicz M., Kluźniak W., Yu W., 2012, ***Eddington capture sphere around luminous stars***, *Astronomy & Astrophysics* 546: s. A54
15. Borysiewicz M., Dynowska E., Kolkovsky V., Dyczewski J., Wielgus M., Kamińska E., Piotrowska A., 2012, ***From porous to dense thin ZnO films through reactive DC sputter deposition onto Si (100) substrates***, *Physica Status Solidi A* 209(12): s. 2463-2469
16. Wielgus M., Patorski K., 2012, ***Non-local fringe image filtration: a new interferometric data filtration paradigm?***, *Photonics Letters of Poland*, 4(2): s. 66-68
17. Wengierow M., Sałbut L., Wielgus M., 2012, ***Multispectral phase shifting interferometry algorithm***, *Photonics Letters of Poland*, 4(2): s. 60-62
18. Ciesielski A., Wielgus M., Kluźniak W., Sądowski A., Abramowicz M., Lasota J.-P., Rebusco P., 2012, ***Stability of radiation-pressure dominated disks. I. The dispersion relation for a delayed heating α -viscosity prescription***, *Astronomy & Astrophysics* 538: s. A148
19. Wielgus M., Patorski K., 2011, ***Evaluation of amplitude encoded fringe patterns using the bidimensional empirical mode decomposition and the 2D Hilbert transform generalizations***, *Applied Optics* 50(28): s. 5513-5523
20. Wielgus M., 2011, ***Amplitude demodulation of interferometric signals with a 2D Hilbert transform***, *Challenges of modern technology*, 2(1): s. 8-11