

Maciej Wielgus

Lista publikacji
z dnia 31 października 2014

Książki i monografie

1. M., Patorski K., **Filtering ESPI fringes with non-local means algorithm**, [w:] **Fringe 2013**, Osten W., Springer-Verlag, Stuttgart 2013, s. 317-320
2. 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**, Osten W., Springer-Verlag, Stuttgart 2013, s. 185-190
3. Wielgus M., Putz B., **Comparative analysis of image fusion performance evaluation methods for the real-time environment monitoring system**, [w:] **Image Processing and Communications Challenges 4 (Advances in Intelligent Systems and Computing) vol. 184 (1)**, Choraś R., Springer-Verlag, Bydgoszcz 2012, 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:] **Image Processing and Communications Challenges 4 (Advances in Intelligent Systems and Computing) vol. 184 (1)**, Choraś R., Springer-Verlag, Bydgoszcz 2012, s. 143-152

Publikacje w czasopismach

1. 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
2. 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
3. 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: 1630
4. Borysiewicz M., Wojciechowski T., Dynowska E., Wielgus M., Bar J., Wojtowicz T., Kamińska E., Piotrowska A., 2014, **Nanocoral ZnO films fabricated on flexible poly(vinylchloride) using a carrier substrate**, *Thin Solid Films* 550: s. 145-148
5. 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
6. Stahl A., Kluźniak W., Wielgus M., Abramowicz M., 2013, **Escape, capture, and levitation of matter in Eddington outbursts**, *Astronomy & Astrophysics* 555: A114
7. Patorski K., Wielgus M., Ekielski M., Kaźmierczak P., 2013, **AFM nanoimprint technique with phase multiplication**, *Measurement Science and Technology* 24: 035402

8. 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
9. Wielgus M., Stahl A., Abramowicz M., Kluźniak W., 2012, **Oscillations of the Eddington capture sphere**, *Astronomy & Astrophysics* 545: A123
10. Stahl A., Wielgus M., Abramowicz M., Kluźniak W., Yu W., 2012, **Eddington capture sphere around luminous stars**, *Astronomy & Astrophysics* 546: A54
11. 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
12. 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
13. Wengierow M., Sałbut L., Wielgus M., 2012, **Multispectral phase shifting interferometry algorithm**, *Photonics Letters of Poland* 4 (2): s. 60-62
14. 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: A148
15. 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
16. Wielgus M., 2011, **Amplitude demodulation of interferometric signals with a 2D Hilbert transform**, *Challenges of modern technology* 2 (1): s. 8-11