

Lista de lucrări

Conf.dr.ing. Romulus Mircea Terebeș

A) Teza de doctorat

1. Diffusion directionnelle. Applications à la restauration et à l'amélioration d'images de documents anciens (in french) " / "Difuzie direcțională. Aplicații în restaurarea și ameliorarea imaginilor reprezentând documente vechi (in romanian) – teza de doctorat în cotutelă Universitatea Bordeaux 1, Franța- Universitatea Tehnică din Cluj-Napoca, România, 2004.

B) Cărți și capitole în cărți

1. **R. Terebeș** (coord. A. Vlaicu, B.Orza, S. Meza, L. Grindei) – "Utilizarea TIC in Procesul Educational. Distribuirea si Accesarea Materialelor Online. Blended & e-Learning", ISBN:978-973-662-694-4, U.T.Press Cluj-Napoca, 2012
2. M.Alexandru, C. Butnaru, M. Romanca, D.Manea, N.Aleman, **R. Terebeș** - "Dezvoltarea carierei în învățământul universitar tehnic", IBSN 978-973-662-820-7, U.T.Press Cluj-Napoca 2012.
3. H. Vălean– "Sisteme ierarhizate și distribuite", ISBN 978-973-662-787-3, Editura Academiei Oamenilor de Știință, 2011. Author of the 4th chapter **R. Terebes** - „Implementarea sistemelor ierarhizate și distribuite", pag.43-52.
4. **R. Terebeș** - "Mobile communications systems. Part 1: GSM Networks", ISBN:978-973-662-694-4, U.T.Press Cluj-Napoca, 2006.
5. S. Pop, **R. Terebes**, M. Borda - Traitement du signal et d'image par ondelettes. Travaux pratiques, UTPRES, Cluj-Napoca, 2008, ISBN 978-973- 662-427-8.
6. M. Borda, **R. Terebeș**, C. Văduva, S. Zăhan –Teoria Transmiterii Informației, îndrumător de laborator, Litografia UTCN, 1996, 72 pag , program TEMPUS S-JEP 08012-94.

C) Articole în reviste

1. B. Belean, **R.Terebeș**, A.Bot – "Low-complexity PDE-based approach for automatic microarray image processing ", MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, Volume: 53 Issue: 2, pp. 99-110, 2015, ISSN: 0140-0118.
2. **R. Terebeș**–"A diffusion approach for oriented volume data denoising", Acta Technica Napocensis-Electronics and Telecommunications, Volume: 55, Number: 4, 2015, pp.7-12, ISSN:1221-6542.
3. V. Hermann N'Guessan, M.Bachir Saley, S. Pop, **R. Terebeș**, B. Belean, E. Valere Djagoua, F.Kouamé, M. Borda, K. Affian–"Markovian approach for analysis and prediction of monthly precipitation field in the department of Sinfra (Central-west of Côte d'Ivoire) ", International Journal of Engineering Research and General Science Volume: 2, Issue: 1, 2014, pp. 34-49, ISSN 2091-2730.

4. B.Belean, M.Borda, B.Le Gal, **R.Terebeş**–“FPGA based system for automatic cDNA microarray image processing”, *COMPUTERIZED MEDICAL IMAGING AND GRAPHICS*, Volume: 36, Issue: 5, pp: 419-429, 2012, ISSN: 0895-6111.
5. **R. Terebeş**, M. Borda, S. Pop, O. Laviaille, C. Germain, C.Luduşan–"A novel diffusion filter for image restoration and enhancement", *REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE* Volume: 55 Issue: 3, 2010, pp. 310-319, ISSN: 0035-4066.
6. **R. Terebeş**, M.Borda, S.Pop, C.Ludusan, O.Laviaille–"Asymmetric Diffusion and Fusion Techniques for Image Restoration", *Acta Technica Napocensis- Electronics and Telecommunications*, Volume: 51, Number: 1, pp. 21-26, 2010, ISSN:1221-6542.
7. C. Luduşan, O. Laviaille, S.Pop, **R.Terebeş**, M.Borda–"Image enhancement using a new shock filter formalism", *Acta Technica Napocensis-Electronics and Telecommunications*, Volume: 50, Number: 3, pp. 27-30, 2009, ISSN:1221-6542.
8. S. Pop, O. Laviaille, M.Donias, **R.Terebeş**, M.Borda, S.Guillon, N.Keskes–"A PDE-based approach to three-dimensional seismic data fusion",–*IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING*, Volume:46, Issue:5, pp. 1385-1393,2008, ISSN: 0196-2892
9. **R. Terebeş**, Otmane Lahlou–"Camera phone based barcode decoding system", *Acta Technica Napocensis-Electronics and Telecommunications*, Volume:49, Number:3, pp. 57-62, 2008, ISSN:1221-6542.
10. C.Luduşan, O.Laviaille, S.Pop, **R.Terebeş**, M.Borda–"An improved method for directional image smoothing based on structure tensors and vector field visualisation techniques", *Scientific Bulletin of the Politehnica University of Timisoara - Transactions on Electronics and Communications*, Volume:53, Issue:67, Pages:124-128, 2008, p-ISSN 1583-3380.
11. **R. Terebeş**, M. Borda, C. Ludusan, S. Pop –"A combined fusion-diffusion approach for image filtering and enhancement", *Scientific Bulletin of the Politehnica University of Timisoara - Transactions on Electronics and Communications*, Volume:53, Issue:67, Pages:103-108, 2008, p-ISSN 1583-3380.
12. S. Pop, O.Laviaille, **R.Terebeş**, M.Borda–"A new partial differential equation-based approach for 3D data denoising and edge preserving", *REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET , ENERGETIQUE*, Volume: 52 Issue: 4, pp. 407-418, 2007 ISBN:0035-4066.
13. C. Luduşan, O.Laviaille, **R.Terebeş**, M. Borda–"An approach to image fusion implementing feature level fusion on seismic attributes", *Buletinul Ştiinţific al Universităţii "Politehnica" din Timişoara, Seria ELECTRONICĂ ŞI TELECOMUNICAŢII*, pp:9-15, Tom 52(66), Fascicola 1, 2007.
14. **R. Terebeş**– "Image restoration through fusion and diffusion",*Buletinul Ştiinţific al Universităţii "Politehnica" din Timişoara, Seria ELECTRONICĂ ŞI TELECOMUNICAŢII*, pp:3-9, Tom 52(66), Fascicola 1, 2007.
15. **R. Terebeş**, Olivier Laviaille, Monica Borda, Pierre Baylou–"Flow Coherence Diffusion. Linear and Nonlinear Case", *Lecture Notes in Computer Science* Volume 3708, 2005, pp 316-323,ISSN: 0302-9743.

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20. A. Z. Bodo, **R. Terebeș**, M. Borda "A Watershed Algorithm and it's Application in Image Segmentation", Acta Technica Napocensis-Electronics and Telecommunications, Volume: 40, Number:2, pp.9-13,2000, ISSN:1221-6542.

D) Articole publicate în volume de conferințe cu comitet de recenzie

1. D.M Daniel, M. Cislariu, **R. Terebeș**– "Combining feature extraction level and score level fusion in a multimodal biometric system", 2014 11th IEEE International Symposium on Electronics and Telecommunications (ISETC), pp.309-312, Publisher:IEEE, 2014.
2. E. Luchian, **R.Terebeș**, M. Cremene – "Design and implementation of a mobile VoIP system on Android", 2014 11th International Symposium on Electronics and Telecommunications (ISETC), pp.157-160, Publisher: IEEE, 2014.
3. **R. Terebeș**, M. Borda, C.Germain, O. Laviaille –"A novel shock filter for image restoration and enhancement", 2012 PROCEEDINGS OF THE 20TH EUROPEAN SIGNAL PROCESSING CONFERENCE (EUSIPCO). Pages: 255- 259.Location: Bucharest, Romania, Date: AUG 27-31, 2012.
4. M. Gherman, M. Borda, **R. Terebeș**—"Time series analysis using wavelets and GJR-Garch models", 2012 PROCEEDINGS OF THE 20TH EUROPEAN SIGNAL PROCESSING CONFERENCE (EUSIPCO), Page: 2138- 2142, Location: Bucharest, Romania. Date:AUG 27-31, 2012
5. M. Borda, B.Belean, **R.Terebeș**, R.Măluțan– "FPGA based SoC for automated cDNA microarray image processing", IEEE 2011 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB), Iasi, Romania, Date:NOV 24-26, 2011.
6. C. Ludusan, O.Laviaille, M.Borda, **R.Terebeș** –"Filtre de choc hybride pour la restauration d'images", Colloque GRETSI 2011, GRETSI Symposium on Signal and Image Processing. Pages : 72-75. Location : Bordeaux, France. Date: SEP 2011.
7. **R. Terebeș**, S.Pop, M.Borda, C.Ludușan, O. Laviaille– "3D Image Restoration using Diffusion and Fusion Techniques", 52nd International Symposium ELMAR, Zadar, Croatia, pp.37-40, Date: SEP 15-17, 2010.
8. S. Pop, **R.Terebeș**, J.P. DaCosta, C.Germain, M.Borda, O.Laviaille—"A novel 3D anisotropic diffusion filter", Conference on Three-Dimensional Image Processing

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9. C. Luduşan, **R. Terebeş**, M. Borda, O.Lavialle—"Coherence enhancing image sharpening and denoising using a novel shock filter model", 9th IEEE International Symposium on Electronics and Telecommunications (ISETC). Pages: 333 – 336. Location: Timisoara, ROMANIA Date: NOV 11-12, 2010
 10. C. Luduşan, **R.Terebeş**, M.Borda, O.Lavialle—"Morphological Sharpening and Denoising Using a Novel Shock Filter Model,"Image and Signal Processing", Lecture Notes in Computer Science Volume 6134, Pages: 19-27, 2010. Location: Trois-Rivières, QC, Canada. Date: JUN 30-JUL 2, 2010.
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 16. **R.Terebeş**, M.Borda, C.Germain, S.Pop, O.Lavialle—"Asymmetric directional diffusion based image filtering and enhancement", IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008). Pages: 413- 418. Location: Cluj Napoca, ROMANIA Date: MAY 22-25, 2008.
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22. O. Lavialle, S.Pop, **R.Terebeş**, P.Baylou, M. Borda—"Fusion-Diffusion d'images : approche par EDP", Colloque GRETSI, Groupe d'Etudes du Traitement du Signal et des Images. Location: Troyes, France. Date: SEP 11-14, 2007.
23. B. Keresztes, M. Borda, **R.Terebeş**, P.Vaysse, C.Germain, J.P. Da Costa, G. Grenier, O. Lavialle—"Object Based Image Segmentation: Application to fruit detection in shipping bins", 6th Int. Conference Communications 2006, Academia Tehnica Militara, Universitatea Politehnica Bucuresti, pp 169-172, ISBN 973718-479-3, 2006.
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D) Brevete

1. M. Borda, O.Tornea, **R. Terebeș**, R. Măluțan—"OTP encryption system and method based on random sequences determined by DNA structures", Patent Number(s):

RO129751-A2, indexat în Web of Science. Derwent Primary Accession Number: 2014-Q48050 [58]

2. B. Belean, M. Borda, **R. Terebeș**, R. Măluțan—"Method and hardware architecture for automatic microarray image addressing", Patent Number(s): RO127341-A2, indexat în Web of Science. Derwent Primary Accession Number: 2012-G18344 [68].