

Bibliografie

[ADE62] **G.M. Adelson-Velskii, E.M. Landis** - *An algorithm for the organizations of informations*, Soviet Mathematics Doklady, 3: pag. 1259-1263, 1962

[AHO74] **A.V. Aho, J.E. Hopcroft, J.D. Ullman** - *Data Structure and Algorithms*. Addison-Wesley, 1974

[ATH93] **I. Athanasiu, V. Cristea, V. Iorga, E. Kalisz** – *Tehnici de programare*, Editura Teora, 1993

[AST92] **E. Åstrand** - *Detection and classification of surface defects in wood: A preliminary study*. Department of Electrical Engineering, Linköping University, LiTH-ISY-I-1437, 1992

[AST94] **E. Åstrand, A. Åström** - *An intelligent single chip multisensor approach for wood defect detection*, 12th International Conference on Pattern Recognition, Jerusalem, Israel, vol. 3, pag. 300-304, 1994

[AST96] **E. Åstrand** - *Automatic inspection of sawn wood*, Ph.D. dissertation, Linköping University, Sweden, 1996

[AVI80] **D. Avis**, - *Lower bounds for geometric problems*. In *Proc. Allerton Conference*, pag. 35-40, Urbana, IL, October 1980

[BHA83] **B.K. Bhattacharya, G.T. Toussaint** - *Efficient algorithms for computing the maximum distance between two finite planar sets*. *Journal of Algorithms*, 4, 1983

[BRU90] **C.C. Brunner, G.B. Shaw, D.A. Butler, J.W. Funck** - *Using color in machine vision systems for wood processing*. *Wood and Fiber Science*, 22(4): pag. 413-428, 1990

[BUS90] R.J. Bush, S.A. Sinclair, P.A. Araman - *Matching your hardwood lumber to current market needs*. Southern Lumberman, 25(7): pag. 24-27, 1990

[BUZ98] V. Buzuloiu - *Prelucrarea imaginilor: note de curs*, Universitatea Politehnica București, 1998

[CAS96] K.R. Castleman - *Digital Image Processing*, Prentice Hall, Englewood, 1996

[CHA83] B. Chazelle - *Algorithms for computing depths and layers*. In Proceedings of Allerton Conference Communications Control Computers, pag. 427-436, 1983

[CHA80] B. Chazelle, D.P. Dobkin - *Detection is easier than computation*. In Proc. 12th Annu. ACM Sympos. Theory Comput., pag. 146-153, 1980

[CHO59] N. Chomsky - *On certain properties of grammars*, Information and Control 2, pag. 137-167, 1959

[CON85] R.W. Conners, C.W. McMillin, K. Lin, R.E Vasquez-Espinosa - *Identifying and locating surface defects in wood: part of an automated lumber processing system*, IEEE Transactions on Pattern Recognition and Machine Intelligence 5, pag. 573-583, 1985

[CON92] R.W. Conners, T.C. Cho, C.T. Ng and T.H. Drayer - *A machine vision system for automatically grading hardwood lumber*, Industrial Metrology 2, pag. 317-342, 1992

[COR90] T.H. Cormen, C.E. Leiserson, R.L. Rivest - *Introduction to Algorithms*. MIT Press, Cambridge, Massachusetts, 1990

[DMI66] A.N. Dmitriev, Y.I. Zhuravlev, F.P. Krendelev - *About of the mathematical principles of objects and phenomens classification*, Siberia Diskrtnii Anal. Novosibirsk (7): pag. 3-15, 1996

[DUD73] R.O. Duda, P.E. Hart - *Pattern Classification and Scene Analysis*. Wiley, New York, 1973

[FEI95] **F. Feito, J.C. Torres, L.A. Urena** - *Orientation, Simplicity and Inclusion Test for Planar Polygons*, Computers & Graphics, 1995

[FLO64] **R.W. Floyd** - *Algorithm 245 (treesort)*, Communications of the ACM, 7: pag. 701, 1964

[FOL96] **J.D. Foley, A. van Dam, St.K. Feiner, J.F. Hughes** - *Computer Graphics: Principles and Practice*, Second Edition in C, Addison-Wesley, pag. 122–123, 1996

[FOR88] **J.B. Forrer, D.A. Butler, J.W. Funck, C.C. Brunner** - *Image sweep-and-mark algorithms*, Part 1, Basic algorithms”, Forest Products Journal 38, pag. 75-79, 1988

[FRE75] **H. Freeman, R. Shapira** - *Determining the minimum-area encasing rectangle for an arbitrary closed curve*. Comm. A.C.M., 18: pag. 409-413, July 1975

[GAR97] **M. Garcia, R. Segura, L.A. Urena** - *Un nuevo algoritmo de Inclusion de Puntos in Triangulos*, Departamento de informatica, Universidad de Jaen, 1997

[GIN93] **S. Ginsburg, D. Simovici, X. Y. Wang** - *Content-related interval queries on object histories*, Information and Computation, Vol. 103, Issue 1, March 1993, pag. 30-67, ISSN 0890-5401, Academic Press, Inc. Duluth, MN, USA, 1993

[GIN03] **B. van Ginneken, B. M. Haar Romeny** - *Multi-scale Texture Classification from Generalized Locally Orderless Images*, Pattern Recognition, Vol. 36, no. 4, pag. 899- 912, April 2003

[GON92] **R.C. Gonzales, R.E. Woods** - *Digital Image Processing*, Addison Wesley, Reading MA, 1992

[GRE76] **U. Grenander** - *Pattern Synthesis*, Springer-Verlag, New York, 1976

[HAA97] **M.P. Haas, P.M. Smith** - *Global Markets for U.S. Hardwood Components*. Forest Products Journal. 47(3):pag. 45-51, 1997

[HAG93] P.O.G. Hagman, S. Grundberg - *Multivariate image analysis methods to classify features on Scots Pine: evaluation of a multi-sensor approach*. In: R. Szymani (ed.) 5th International Conference on Scanning Technology and Process Control for the Wood Products Industry, pag. 25-27, Atlanta, Georgia, 18, October, 1993

[HAN99] K. Hannu, R. Hannu, O. Silvén - *Non-segmenting defect detection and SOM based classification for surface inspection using color vision Machine*, Vision and Media Processing Group University of Oulu, P.O. Box 4500, 90401 Oulu, Finland, Conference on Polarization and Color Techniques in Industrial Inspection (SPIE 3826), Munich, Germany, pag. 270-280, June 17-18, 1999

[HAR91] R.M. Haralick, L.G. Shapiro - *Glossary of Computer Vision Terms*, în *Pattern Recognition*, vol. 24, no. 1, pag. 69-93, 1991

[HAR92] R. Haralick - *Performance characterization in image analysis: thinning, a case in point*, *Pattern Recognition Letters* 13, pag. 5-12, 1992

[HEA94] D. Hearn, M.P. Baker - *Computer Graphics: C Version*, Second Edition, Prentice-Hall, pag. 231-232, 1994

[HOP73] J.E. Hopcroft, R.E. Tarjan - *Efficient algorithms form graph manipulation*, *Communications of the ACM*, 16(6): pag. 372-378, 1973

[HUA03] P.W. Huang, S.K. Dai - *Image retrieval by texture similarity*, *Pattern Recognition*, pp. 665-680, Vol. 36, no. 3, March 2003

[ICH75] K. Ichida, T. Kiyono - *Segmentation of plane curves*, *Trans. Elec. Commun. Eng., Japan*, 58-D: pag. 689-696, 1975.

[JAH97] B. Jähne - *Practical Handbook on Image Processing for Scientific Applications*, CRC Press, 1997

[JAI89] A.K. Jain - *Fundamentals of Digital Image Processing*, Prentice Hall, Englewood, 1989

[KAU99] H. Kauppinen, O. Silvén and T. Piirainen - *Self-organizing map based user interface for visual surface inspection*, 11th Scandinavian Conference on Image Analysis, Kangerlussuaq, Greenland, June 7-11, 1999

[KAU95] **H. Kauppinen, O. Silven** - *Development of color-vision-based solutions for lumber grading*. Proceedings of SPIE The International Society for Optical Engineering. 2423, 1995. Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA. pag. 203-214, 1995

[KAU95] **H. Kauppinen, O. Silvén** - *A color vision approach for grading lumber*, Theory & Applications of Image Processing II - Selected papers from the 9th Scandinavian Conference on Image Analysis, Borgefors G (ed.), World Scientific, pag. 367-379, 1995.

[KIM94] **C.W. Kim and A.J. Koivo** - *Hierarchical classification of surface defects on dusty wood boards*, Pattern Recognition Letters 15, pag. 713-721, 1994

[KNU73] **D.E. Knuth** - *Sorting and Searching*, The Art of Computer Programming, Vol. 3, 1973

[KOH97] **T. Kohonen** - *Self-organizing maps*, Springer-Verlag, Berlin, 1997

[KOI89] **A.J. Koivo and C.W. Kim** - *Robust image modeling for classification of surface defects on wood boards*, IEEE Transactions on Systems, Man, and Cybernetics 19, pag. 1659-1666, 1989

[LIA83] **Y.D. Liang, B.Barsky** - *An Analysis and Algorithm for Polygon Clipping*, CACM 26, pag. 868-877, 1983

[LIA84] **Y.D. Liang, B.Barsky** - *A new Concept and Method for Line Clipping*, ACM TOG, 3(1), pag. 1-22, 1984

[LIV86] **L. Livovschi, H. Georgescu** - *Sinteza și analiza algoritmilor*, Editura Științifică și Enciclopedică, București, 1986

[LUP91] **W.G. Luppold** - *Hardwood lumber demand in the 1990's*. Proceedings of the 19th Annual Hardwood Symposium of the Hardwood Research Council, Starkeville, Mississippi, pag. 57-63, 1991

[MAX96] **I. Maxim, E. Mateescu** - *Arbori*, Editura Țara Fagilor, Suceava, 1996

[MAX99] I. Maxim – *An attempt to generalize the plan sorting algorithm*, The Annals of the „Ștefan cel Mare” University, Electrical Section, nr. 11/1999, ISSN 1222-4316, pag. 78-79, 1999

[MAX01] I. Maxim, C. Masalagiu, I. Asiminoae - *Metodica predării informaticii*, Editura Matrixrom, ISBN 973-685-218-0, București, 2001

[MAX02] I. Maxim – *Tehnici de învățare asistată de calculator*, în vol. Colocviul internațional „Științe ale educației” – dinamică și perspective, Editura Universității „Ștefan cel Mare”, pag. 73-77, ISBN 973-666-003-6, Suceava, 2002

[MAX03] I. Maxim – *Metoda acoperirilor succesive pentru optimizarea algoritmului de acoperire a suprafețelor planare fără restricții*, în vol. Tehnologii Informaționale, Editura Universității „Ștefan cel Mare”, pag. 138-144, (Coordonator Prof. Alexandru Valachi), ISBN 973-666-059-1, Suceava, 2003

[MAX05a] I. Maxim – *Clasificarea ierarhică a tăieturilor*, Analele Științifice ale Universității de Stat din Moldova, seria „Științe fizico-matematice”, pag. 132-134, ISSN 1811-2641, Chișinău, 2005

[MAX05b] I. Maxim – *The classification of the cuts through the equilibrations of the components*, The International Symposium on System Theory SINTES 12, Vol. 3, Software Engineering, University of Craiova, October 20-22, ISBN 973-742-148-5, pag. 620-621, Craiova, 2005

[MAX05c] I. Maxim – *Decupabilitatea diagramelor de croire a suprafețelor planare cu restricții*, în vol. Procesare Distribuita, Editura Universității „Ștefan cel Mare”, pag. 99-102, (Coordonator Prof. Adrian Graur), ISBN 973-666-177-6, Suceava, 2005

[MAX08] I. Maxim, T. Socaciu - *Equilibrate Cutting Trees*, International Journal of Computers, Communications & Control (IJCCC), <http://www.journal.univagora.ro/>, International Conference on Computers, Communications & Control, covered in **ISI Thomson Scientific**, ISSN 1841-9836, <http://www.thomsonscientific.com/cgi-bin/jrnlst/jlresults.cgi>, letter I, no. 542

[MAX07] **I. Maxim, C. Moroşanu** – *Informatică – Didactica specialităţii*, Editura Universităţii „Al. I. Cuza” Iaşi, ISBN 973-703-194-6, Iaşi, 2007

[MIH80] **Gh. Mihoc, N. Micu** - *Teoria probabilităţilor şi statistică matematică*. Editura didactică şi pedagogică, Bucureşti, 1980

[MOI83] **E.E. Moise, F.L. Downs jr.** - *Geometrie*, Editura Didactică şi Pedagogică, Bucureşti, 1983

[NED97] **S. Nedevschi** - *Prelucrarea imaginilor şi recunoaşterea formelor*, Editura Albastră, Cluj-Napoca, 1997

[OJA92] **T. Ojala, M. Pietikäinen, O. Silvén** - *Edge-based texture measures for surface inspection*, 11th International Conference on Pattern recognition, The Hague, The Netherlands, vol. 2, pag. 594-598, 1992.

[PEN96] **Şt. Gh. Pentiuc** - *Recunoaşterea formelor*, Editura Universităţii, Suceava, 1996

[PEN96] **Şt. Gh. Pentiuc** - *Recunoaşterea formelor – Metode, programe, aplicaţii*, Editura Universităţii Suceava, ISBN 973-97787-5-5, 1996

[PEN97] **Şt. Gh. Pentiuc** - *Aplicaţii ale recunoaşterii formelor în diagnosticul automat*, Editura Tehnică, Suceava, 1997

[PEN98] **Şt. Gh. Pentiuc** - *Recunoaşterea formelor*, Editura ştiinţifică şi enciclopedică, Bucureşti, 1998

[POL90] **W. Polzleitner, G. Schwingshagl** - *Real-time classification of wooden boards*. SPIE. High-speed Inspection Architectures, Barcoding, and Character recognition. 1384: pag. 38-49, 1990

[PRE85] **F.P. Preparata, M.I. Shamos** - *Computational Geometry: An introduction*, Springer Velang, 1985

[REI72] **C. Reischer, A. Sâmbăoan** - *Culegere de probleme de teoria probabilităţilor şi statistică matematică*, Editura didactică şi pedagogică, Bucureşti, 1972

[ROU82] **J. O'Rourke, C.B. Chien, T. Olson, D. Naddor** - *A new linear algorithm for intersecting convex polygons*, Computational Graphics Image Processing, 19: pag. 384-391, 1982

[RUI00] **J. Ruiz-Shuleloper, A. Guzman-Arenas, J.F. Martinez-Trinidad** - *Feature Selection and Supervised Classifications*, Logical Combinatorial Approach to Pattern Recognition, Edition Politecnica, Mexico, Fondo de Cultura Economica, 2000

[SHA78] **M.I. Shamos** - *Computational geometry*. PhD thesis, Yale University, 1978

[SHA76] **M.I. Shamos, D. Hoey** - *Geometric intersection problems*, In Proc. 17th Annu. IEEE Sympos. Found. Computer Science, pag. 208-215, 1976

[SIL94] **O. Silván, H. Kauppinen** - *Color vision based methodology for grading lumber*, The 12th International Conference on Pattern Recognition, Jerusalem, Israel, vol. 1, pag. 787-790, 1994

[SIL96] **S. Silván, H. Kauppinen** - *Recent developments in wood inspection*, International Journal of Pattern Recognition and Artificial Intelligence 10(1):pag. 83-95, 1996

[SIM78] **D. Simovici** - *Limbaje formale și tehnici de compilare*, Editura didactică și pedagogică, București, 1978

[SIM99] **D. Simovici, R. Tenney** - *Theory of Formal Languages with Applications*, World Scientific, 1999

[SOB89] **P.J. Sobey, E.C. Semple** - *Detection and sizing visual features in wood using tonal measures and a classification algorithm*, Pattern Recognition 22, pag. 367-380, 1989

[SITE81] **A. Ștefănescu, C. Zidăroiu** - *Cercetări operaționale*, Editura didactică și pedagogică, București, 1981

[SUP03] **B.J. Super, H. Lu** - *Evaluation of hypostasis for silhouette based 2-D object recognition*, Pattern Recognition, Vol. 36, no. 1, pag. 69-78 January 2003

[SUT74] **I.E. Sutherland, G.W. Hodgman** - *Reentrant Polygon Clipping*, CACM, 17, 32-42, 1974

[SZY81] **R. Szymani, K.A. McDonald** - *Defect detection in lumber: state of the art*. Forest Products Journal, 31(11): pag. 34-43, 1981

[TAR72] **R.E. Tarjan** - *Depth first search and linear graph algorithms*. SIAM Journal on Computing, 1(2): pag. 146-160, 1972

[TAT87] **S. Tatari, W. Hättich** - *Automatic recognition of defects in wood*, SPIE 804, Advances in Image Processing, pag. 229-236, 1987

[TIM95] **S. Timothy, S. Newman, A.K. Jain** - *A survey of automated visual inspection* Source *Computer Vision and Image Understanding*, Volume 61, Issue 2 (March 1995), pag. 231–262, ISSN:1077-3142, Elsevier Science Inc. New York, NY, USA, 1995

[TOU81] **G.T. Toussaint, B.K. Bhattacharya** - *Optimal algorithms for computing the minimum distance between two finite planar sets*. In Proc. Fifth International Congress of Cybernetics and Systems, Mexico City, 1981

[TOU82] **G.T. Toussaint and J.A. McAlear** - *A simple $O(n \log n)$ algorithm for finding the maximum distance between two finite planar sets*, Pattern Recognition Letters, 1: pag. 21-24, 1982

[TOU86] **G.T. Toussaint** - *New results in computational geometry relevant to pattern recognition in practice*, In E.S. Gelsema and L.N. Kanal, editors, *Pattern Recognition in Practice II*, pag. 135-146. North-Holland, Amsterdam, Netherlands, 1986

[VER99] **C. Vertan, I. Gavăt, R. Stoian** - *Variabile aleatoare: principii și aplicații*, Editura Printech, București, 1999

[VER01] **C. Vertan, M. Ciuc, M. Zamfir** - *Analiza imaginilor – Îndrumar de laborator*, Univ. București, București, 2001

[WAH87] **F.M. Wahl** - *Digital Image Signal Processing*, Artech House, Boston, 1987

[WAN01] **J.T.L. Wang, K. Zang** - *Finding similar consensus between trees: an algorithm and a distance hierarchy*, Pattern Recognition, 34(1), pag. 127-137, 2001

[WEI77] **K.Weiler, P. Atherton** - *Hidden Surface Removal Using Polygon Area Sorting*, Computer Graphics, 11(2), pag. 214-222, 1977

[WIL64] **J.W.J. Williams** - *Algorithm 232 (heapsort)*, Communications of the ACM, 7: pag. 347-348, 1964

[ZAM95] **P. Zamperoni** - *Image Enhancement*, Advances in Imaging and Electron Physics, vol. 92, pag. 1-77, Academic Press, 1995

[YHA03] **J. Yhang, T. Tan** - *Affine invariant classification and retrieval of texture images*, Pattern Recognition, pag. 657-664, Vol. 36, no. 3, March 2003

[WWW1] – **Woodbin – Woodworking Software and Woodworking Reference Information** – <http://www.woodbin.com/docs/books/>, 2006

[WWW2] – **Justwoodworking** – <http://www.justwoodworking.com>, 2004

[WWW3] – **CutMaster 2D** – <http://www.cutmaster2d.com/>,2004

[WWW4] – **Cabinet Pro and Door Pro** – <http://www.siskiyouproducts.com/>, 2005

[WWW5] – **Sheet Layout – Productivity Software** – <http://www.sheetlayout.com/>, 2005

[WWW6] – **Nirvana Technologies Private Limited** – <http://www.nirvanatec.com/>, 2006

[WWW7] – **Cab-Tech Software** – <http://www.cab-tech.com/htdocs/software.htm>, 2005

[WWW8] – **KCDw Software** – <http://www.kcdw.com/>,2006

[WWW9] – Timber Soft –
<http://www.timbersoft.com/>, 2005

[WWW10] – KraftMaid Cabinetry –
http://www.kraftmaid.com, 2006

[WWW11] – 20-20 Technologies –
<http://www.2020technologies.com/us-eng/index.aspx>, 2006

[WWW12] – JJT Computing - Super Software –
<http://www.jjtcomputing.com/>,2006

[WWW13] – ADISA Systems B.V. –
<http://www.adisasystems.com/>,2006

[WWW14] – Planit solutions –
<http://www.cabnetware.com/>,2006

[WWW15] – Astrokettle Algorithms –
<http://www.astrokettle.com/>, 2006

[WWW16] – Corte Certo – Software for the optimization of plate cutting – *<http://www.cortecerto.com/>, 2006*

[WWW17] – CutList Plus - Woodworking software – BridgeWood Design - *<http://www.cutlistplus.com/>,2006*

[WWW18] – Ardis –
<http://www.ardis.be/>,2006

[WWW19] – Soft Consult –
<http://www.softconsult.cz/us/>,2006

[WWW20] – Woodbin – Woodworking Software Central -
<http://www.woodbin.com/docs/books/>, 2006

[WWW21] – Woodbin – Cutting Optimization Software -
http://www.woodbin.com/docs/software/cut_optimization_software.htm, 2006

[WWW22] – Terra Design –

<http://www.easycab.com/>, 2004

[WWW23] – eCabinet Systems –
<http://www.ecabinetsystems.com/>, 2005

[WWW23] – Cabinet Solutions Inc. –
<http://www.cabinetsolutions.net/>, 2005

[WWW24] – Deco Tech –
<http://www.aaworldsales.com/index.htm>, 2006

[WWW25] – Kitchen Consultants –
<http://www.kitchen-consultants.com/index.htm>, 2006

[WWW26] – Office CAD –
<http://www2.officcad.com/asp/default.asp?page=investor>, 2004

[WWW27] – R&R Drummond – Itemizer –
<http://www.rrdrummond.com/>, 2006

[WWW28] – Cube IQ – MagicLogic Optimization, Inc. –
<http://www.magiclogic.com/cube-iq.cfm>, 2006

[WWW29] – Woodworking Plan Finder –
<http://www.woodworkingplanfinder.com/>, 2006

[WWW30] – Woodware Designs –
<http://www.charm.net/~jriley/woodware.html>, 2005

[WWW31] – Zigan’s Woodworking Plans Store –
<http://www.goestores.com/catalog.aspx?Merchant=ziganswoodcrafts&DeptID=63902>, 2006

[WWW32] – Cutlight –
<http://www.itmanagement.at/joinersplanet/german/cutlight.html>, 2006

[WWW33] – Tensor Software –
<http://www.air.on.ca/users/rberg/>, 2004

[WWW34] – Wood Magazine Software –
<http://www.woodmagazine.com/>, 2006