



Author Index

Volume 2

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [J](#) [K](#) [L](#) [M](#) [N](#) [P](#) [R](#) [S](#) [T](#) [U](#) [V](#)

A

Araujo, Sidnei Alves de (1)

[Rotation, scale and translation-invariant segmentation-free grayscale shape recognition using mathematical morphology](#) 61
Araujo, S. A.; Kim, H. Y.

Armelin, Hugo Aguirre (1)

[A structural PGN model for control of cell-cycle progression](#) 79
Trepode, N. W.; Armelin, H. A.; Bittner, M.; Barrera, J.; Gubitoso, M. D.; Hashimoto, R. F.

Armspach, Jean-Paul (1)

[Topologically-based segmentation of brain structures from T1 MRI](#) 33
Miri, S.; Passat, N.; Armspach, J.-P.

B

Barrera, Junior (4)

[Automatic microarray gridding by mathematical morphology](#) 27
Dantas, D. O.; Barrera, J.

[A branch-and-bound optimization algorithm for U-shaped cost functions on Boolean lattices](#) 55
Ris, M.; Barrera, J.

[A structural PGN model for control of cell-cycle progression](#) 79
Trepode, N. W.; Armelin, H. A.; Bittner, M.; Barrera, J.; Gubitoso, M. D.; Hashimoto, R. F.

[An entropy minimization approach for designing W-operators](#) 43
Vaquero, D. A.; Barrera, J.; Hirata Jr, R.

Baruthio, Joseph (1)

[Gray-level hit-or-miss transform based region-growing for automatic segmentation of 3D coronary arteries](#) 23
Bouraoui, B.; Ronse, C.; Baruthio, J.; Passat, N.; Germain, P.

Bertrand, Gilles (1)

[Topological monsters in \$Z^3\$: A non-exhaustive bestiary](#) 11
Passat, N.; Couprie, M.; Bertrand, G.

Bittner, Michael (1)

[A structural PGN model for control of cell-cycle progression](#) 79
Trepode, N. W.; Armelin, H. A.; Bittner, M.; Barrera, J.; Gubitoso, M. D.; Hashimoto, R. F.

Bloch, Isabelle (1)	
Mathematical morphology on bipolar fuzzy sets <i>Bloch, I.</i>	3
Bouraoui, Bessem (1)	
Gray-level hit-or-miss transform based region-growing for automatic segmentation of 3D coronary arteries <i>Bouraoui, B.; Ronse, C.; Baruthio, J.; Passat, N.; Germain, P.</i>	23
C	
Calixto, Erick Petito (1)	
Chromaticity constant: a new ordering for automated extraction of grain-size data from true colour images <i>Calixto, E. P.; Conci, A.</i>	63
Camargo, Paulo Fernando Franco de (1)	
Fiducial markers detection in anthropometric images <i>Kogler Junior, J. E.; Camargo, P. F. F.; Junoir, T. W. T.; Coelho, E.</i>	69
Castellano, Gabriela (1)	
Contour segmentation of the transversal section of photonic fibers in SEM images using mathematical morphology <i>Mariano, A.; Castellano, G.</i>	31
Chellappa, Rama (1)	
J-image based color-texture segmentation using watershed and hierarchical clustering <i>Santos, T. T.; Morimoto, C. H.; Chellappa, R.</i>	35
Climent, Joan (1)	
Fingerprint minutiae extraction using topographic distances <i>Climent, J.</i>	65
Coelho, Eric (1)	
Fiducial markers detection in anthropometric images <i>Kogler Junior, J. E.; Camargo, P. F. F.; Junoir, T. W. T.; Coelho, E.</i>	69
Combaret, Nicolas (1)	
Robust 3D segmentation of composite materials fibres <i>Combaret, N.; Talbot, H.</i>	25
Conci, Aura (2)	
Chromaticity constant: a new ordering for automated extraction of grain-size data from true colour images <i>Calixto, E. P.; Conci, A.</i>	63
A JavaScript tool to present Mathematical Morphology to beginner <i>Nuñez, C. C.; Conci, A.</i>	75

Couprie, Michel (2)	
Topological monsters in Z^3 : A non-exhaustive bestiary <i>Passat, N.; Couprie, M.; Bertrand, G.</i>	11
Distance transform to seeds: Computation and application <i>Saúde, A. V.; Couprie, M.; Lotufo, R. A.</i>	15
Cruz, Marcia Maria de Castro (1)	
Mathematical morphology for two valued gray-scale images with undefined information <i>Cruz, M. M. C.; Doria Neto, A. D.; Santiago, R. H. N.</i>	5
D	
Daire, Jean-Luc (1)	
Computing rotation centers of the heart from tagged MRI <i>Jacob, J.-P.; Vachier, C.; Daire, J.-L.; Hyacinthe, J.-N.; Vallée, J.-P.</i>	67
Dantas, Daniel Oliveira (1)	
Automatic microarray gridding by mathematical morphology <i>Dantas, D. O.; Barrera, J.</i>	27
Dokladal, Petr (1)	
Segmentation of 3D nano-scale polystyrene balls <i>Tankyevych, O.; Marak, L.; Talbot, H.; Dokladal, P.</i>	37
Doria Neto, Adrião Duarte (1)	
Mathematical morphology for two valued gray-scale images with undefined information <i>Cruz, M. M. C.; Doria Neto, A. D.; Santiago, R. H. N.</i>	5
E	
Esmi Laureano, Estevão (1)	
A brief introduction to a two-layer morphological associative memory based on fuzzy operations <i>Sussner, P.; Esmi Laureano, E.</i>	57
F	
Fricout, Gabriel (1)	
SIMEA: An advanced framework for random media simulation <i>Nion, T.; Jeulin, D.; Fricout, G.</i>	53
G	
Germain, Philippe (1)	
Gray-level hit-or-miss transform based region-growing for automatic segmentation of 3D coronary arteries <i>Bouraoui, B.; Ronse, C.; Baruthio, J.; Passat, N.; Germain, P.</i>	23

Gubitoso, Marco Dimas (1)	
A structural PGN model for control of cell-cycle progression	79
<i>Trepode, N. W.; Armelin, H. A.; Bittner, M.; Barrera, J.; Gubitoso, M. D.; Hashimoto, R. F.</i>	
H	
Hashimoto, Ronaldo Fumio (2)	
Efficient binary erosion algorithm based on a string-matching-like technique	49
<i>Machado, A. F.; Hashimoto, R. F.; Lago, A. P.</i>	
A structural PGN model for control of cell-cycle progression	79
<i>Trepode, N. W.; Armelin, H. A.; Bittner, M.; Barrera, J.; Gubitoso, M. D.; Hashimoto, R. F.</i>	
Hirata, Nina Sumiko Tomita (1)	
Watershed segmentation: Switching back and forth between markers and hierarchies	29
<i>Klava, B.; Hirata, N. S. T.</i>	
Hirata Jr, Roberto (1)	
An entropy minimization approach for designing W-operators	43
<i>Vaquero, D. A.; Barrera, J.; Hirata Jr, R.</i>	
Hirata Jr., Roberto (2)	
A morphological gradient-based method to motion segmentation	71
<i>Lara, A. C.; Hirata Jr., R.</i>	
Exploring window selection strategies for two-level binary image operator design	41
<i>Santos, C. S.; Hirata Jr., R.</i>	
Hyacinthe, Jean-Noël (1)	
Computing rotation centers of the heart from tagged MRI	67
<i>Jacob, J.-P.; Vachier, C.; Daire, J.-L.; Hyacinthe, J.-N.; Vallée, J.-P.</i>	
J	
Jacob, Jean-Pascal (1)	
Computing rotation centers of the heart from tagged MRI	67
<i>Jacob, J.-P.; Vachier, C.; Daire, J.-L.; Hyacinthe, J.-N.; Vallée, J.-P.</i>	
Jeulin, Dominique (1)	
SIMEA: An advanced framework for random media simulation	53
<i>Nion, T.; Jeulin, D.; Fricout, G.</i>	
Junoir, Thales Waltenior Trigo (1)	
Fiducial markers detection in anthropometric images	69
<i>Kogler Junior, J. E.; Camargo, P. F. F.; Junoir, T. W. T.; Coelho, E.</i>	

K

Kim, Hae Yong (2)

Rotation, scale and translation-invariant segmentation-free grayscale
shape recognition using mathematical morphology 61
Araujo, S. A.; Kim, H. Y.

Perceptual hashing for hardcopy document authentication using
morphological segmentation 77
Shimizu, D. M.; Kim, H. Y.

Klava, Bruno (1)

Watershed segmentation: Switching back and forth between markers and
hierarchies 29
Klava, B.; Hirata, N. S. T.

Kogler Junior, João Eduardo (1)

Fiducial markers detection in anthropometric images 69
Kogler Junior, J. E.; Camargo, P. F. F.; Junoir, T. W. T.; Coelho, E.

Körbes, André (1)

Attribute sub-tree matching algorithm 47
Körbes, A.; Silva, A. G.; Lotufo, R. A.

L

Lago, Alair Pereira do (1)

Efficient binary erosion algorithm based on a string-matching-like
technique 49
Machado, A. F.; Hashimoto, R. F.; Lago, A. P.

Lara, Arnaldo Câmara (1)

A morphological gradient-based method to motion segmentation 71
Lara, A. C.; Hirata Jr., R.

Lira, Cristina (1)

Granulometric and morphometric characterization of sand grains 73
Lira, C.; Pina, P.

Lotufo, Roberto de Alencar (2)

Attribute sub-tree matching algorithm 47
Körbes, A.; Silva, A. G.; Lotufo, R. A.

Distance transform to seeds: Computation and application 15
Saúde, A. V.; Couprie, M.; Lotufo, R. A.

M

Machado, Anderson Fraiha (1)

Efficient binary erosion algorithm based on a string-matching-like
technique 49
Machado, A. F.; Hashimoto, R. F.; Lago, A. P.

Marak, Laszlo (1)	
Segmentation of 3D nano-scale polystyrene balls <i>Tankyevych, O.; Marak, L.; Talbot, H.; Dokladal, P.</i>	37
Mariano, Anderson (1)	
Contour segmentation of the transversal section of photonic fibers in SEM images using mathematical morphology <i>Mariano, A.; Castellano, G.</i>	31
Miri, Sanae (1)	
Topologically-based segmentation of brain structures from T1 MRI <i>Miri, S.; Passat, N.; Armspach, J.-P.</i>	33
Monteiro da Silva, Alexandre (1)	
Some theoretical aspects and experimental results on feedforward morphological neural networks <i>Monteiro da Silva, A.; Sussner, P.</i>	51
Morimoto, Carlos Hitoshi (1)	
J-image based color-texture segmentation using watershed and hierarchical clustering <i>Santos, T. T.; Morimoto, C. H.; Chellappa, R.</i>	35
N	
Nion, Thibauld (1)	
SIMEA: An advanced framework for random media simulation <i>Nion, T.; Jeulin, D.; Fricout, G.</i>	53
Nuñez, César C. (1)	
A JavaScript tool to present Mathematical Morphology to beginner <i>Nuñez, C. C.; Conci, A.</i>	75
P	
Passat, Nicolas (3)	
Gray-level hit-or-miss transform based region-growing for automatic segmentation of 3D coronary arteries <i>Bouraoui, B.; Ronse, C.; Baruthio, J.; Passat, N.; Germain, P.</i>	23
Topologically-based segmentation of brain structures from T1 MRI <i>Miri, S.; Passat, N.; Armspach, J.-P.</i>	33
Topological monsters in Z^3 : A non-exhaustive bestiary <i>Passat, N.; Couprie, M.; Bertrand, G.</i>	11
Pina, Pedro (1)	
Granulometric and morphometric characterization of sand grains <i>Lira, C.; Pina, P.</i>	73

R

Ris, Marcelo (1)

- A branch-and-bound optimization algorithm for U-shaped cost functions
on Boolean lattices 55
Ris, M.; Barrera, J.

Robert-Inacio, Frédérique (1)

- Shape parameters estimating the symmetry with respect to a point 13
Robert-Inacio, F.

Ronse, Christian (1)

- Gray-level hit-or-miss transform based region-growing for automatic
segmentation of 3D coronary arteries 23
Bouraoui, B.; Ronse, C.; Baruthio, J.; Passat, N.; Germain, P.

S

Santiago, Regivan Hugo Nunes (1)

- Mathematical morphology for two valued gray-scale images with
undefined information 5
Cruz, M. M. C.; Doria Neto, A. D.; Santiago, R. H. N.

Santos, Carlos da Silva dos (1)

- Exploring window selection strategies for two-level binary image operator
design 41
Santos, C. S.; Hirata Jr., R.

Santos, Thiago Teixeira (1)

- J-image based color-texture segmentation using watershed and
hierarchical clustering 35
Santos, T. T.; Morimoto, C. H.; Chellappa, R.

Saúde, André Vital (1)

- Distance transform to seeds: Computation and application 15
Saúde, A. V.; Couprie, M.; Lotufo, R. A.

Shimizu, Diego Massola (1)

- Perceptual hashing for hardcopy document authentication using
morphological segmentation 77
Shimizu, D. M.; Kim, H. Y.

Silva, Alexandre Gonçalves (1)

- Attribute sub-tree matching algorithm 47
Körbes, A.; Silva, A. G.; Lotufo, R. A.

Slapal, Josef (1)

- On a generative topology for the digital plane 17
Slapal, J.

Sussner, Peter (3)

Some theoretical aspects and experimental results on feedforward
morphological neural networks 51
Monteiro da Silva, A.; Sussner, P.

A brief introduction to a two-layer morphological associative memory
based on fuzzy operations 57
Sussner, P.; Esmeraldo, E.

Associative memories based on fuzzy mathematical morphology and an
application in prediction 7
Valle, M. E.; Sussner, P.

Svensson, Stina (1)

Centres of maximal balls extracted from a fuzzy distance transform 19
Svensson, S.

T

Talbot, Hugues (2)

Robust 3D segmentation of composite materials fibres 25
Combaret, N.; Talbot, H.

Segmentation of 3D nano-scale polystyrene balls 37
Tankyevych, O.; Marak, L.; Talbot, H.; Dokladal, P.

Tankyevych, Olena (1)

Segmentation of 3D nano-scale polystyrene balls 37
Tankyevych, O.; Marak, L.; Talbot, H.; Dokladal, P.

Trepode, Nestor Walter (1)

A structural PGN model for control of cell-cycle progression 79
*Trepode, N. W.; Armelin, H. A.; Bittner, M.; Barrera, J.; Gubitoso, M.
D.; Hashimoto, R. F.*

U

Urbach, Erik R. (1)

Classification of objects consisting of multiple segments with application
to crater detection 81
Urbach, E. R.

V

Vachier, Corinne (1)

Computing rotation centers of the heart from tagged MRI 67
Jacob, J.-P.; Vachier, C.; Daire, J.-L.; Hyacinthe, J.-N.; Vallée, J.-P.

Valle, Marcos Eduardo (1)

Associative memories based on fuzzy mathematical morphology and an
application in prediction 7
Valle, M. E.; Sussner, P.

Vallée, Jean-Paul (1)

[Computing rotation centers of the heart from tagged MRI](#)

67

Jacob, J.-P.; Vachier, C.; Daire, J.-L.; Hyacinthe, J.-N.; Vallée, J.-P.

Vaquero, Daniel André (1)

[An entropy minimization approach for designing W-operators](#)

43

Vaquero, D. A.; Barrera, J.; Hirata Jr, R.