## Maher Moakher

## List of Publications by Year in descending order

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45
papers1 Conformational analysis of nucleic acids revisited: Curvest. Nucleic Acids Research, 2009, 37,tumbling blenders. Powder Technology, 2000, 109, 58-71.

A rigorous framework for diffusion tensor calculus. Magnetic Resonance in Medicine, 2005, 53,
7 On the Averaging of Symmetric Positive-Definite Tensors. Journal of Elasticity, 2006, 82, 273-296.

## The Riemannian Geometry of the Space of Positive-Definite Matrices and Its Application to the

8 Regularization ofÂPositive-Definite Matrix-Valued Data. Journal of Mathematical Imaging and Vision,
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81 2011, 40, 171-187.

9 Symmetric Positive-Definite Matrices: From Geometry to Applications and Visualization. Mathematics
$0.4 \quad 73$
and Visualization, 2006, , 285-298.

10 On the parameterization of rigid base and basepair models of DNA from molecular dynamics simulations. Physical Chemistry Chemical Physics, 2009, 11, 10565.
1.3

65
Means of Hermitian positive-definite matrices based on the log-determinant <mml:math
11 xmlns:mm|="http:|/www.w3.org/1998/Math/MathML" altimg="sil.gif"Means of Hermitian positive-definite matrices based on the log-determinant <mml:math11 xmins:mm|="http:|/www.w3.org/1998/Math/MathML" altimg="sil.gif"57Linear Algebra and Its Applications, 2012, 436. 1872-1889.12 Simulation of flow and mixing of particles in a rotating and rocking cylinder. AICHE Journal, 1998, 44,1.850
1266-1276.
6.5 ..... 48A measure of bending in nucleic acids structures applied to A-tract DNA. Nucleic Acids Research, 2010,
38, 3414-3422.1.344Stability of cylindrical bodies in the theory of surface diffusion. Physica D: Nonlinear Phenomena,1995, 89, 123-135.

Spaceâ€"Time Finite Element Methods for Surface Diffusion with Applications to the Theory of the
A Nash-game approach to joint image restoration and segmentation. Applied Mathematical Modelling,

$2014,38,3038-3053$. | High-order anisotropic diffusion operators in spaces of variable exponents and application to image |
| :--- |
| inpainting and restoration problems. Nonlinear Analysis: Real World Applications, 2019, 47, 251-271. |
| $24 \quad$ Ternary Quartic approach for positive 4th order diffusion tensors revisited. , 2009, , . |

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\begin{aligned}
& 26 \text { Bhattacharyya median of symmetric positive-definite matrices and application to the denoising of } \\
& \text { diffusion-tensor fields. , 2013, , 1227-1230. }
\end{aligned}
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Similarity solutions in the theory of curvature driven diffusion along planar curves: I. Symmetric curves expanding in time. Physica D: Nonlinear Phenomena, 1998, 121, 263-274.
$1.3 \quad 9$
A local projection stabilization of fictitious domain method for elliptic boundary value problems.
Applied Numerical Mathematics, 2014, 76, 60-75. $\quad 1.2$ 9
31 Riemannian Curvature-Driven Flows for Tensor-Valued Data. , 2007, , 592-602. ..... 9
Numerical convergence and stability of mixed formulation with X-FEM cut-off. European Journal of
39 The Algebra of Fourth-Order Tensors with Application to Diffusion MRI. Mathematics and

Noise removal and edge detection in ultrasound images by the topological gradient method. New

