

Sebti Foufou

List of Publications by Year in descending order

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Version: 2024-02-01

141
papers

2,372
citations

516710

16
h-index

243625

44
g-index

146
all docs

146
docs citations

146
times ranked

2180
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Survey of Clustering Algorithms for Big Data: Taxonomy and Empirical Analysis. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 267-279. | 4.6 | 743 |
| 2 | OntoSTEP: Enriching product model data using ontologies. CAD Computer Aided Design, 2012, 44, 575-590. | 2.7 | 195 |
| 3 | A context-aware approach for long-term behavioural change detection and abnormality prediction in ambient assisted living. Pattern Recognition, 2015, 48, 628-641. | 8.1 | 164 |
| 4 | Information sharing and exchange in the context of product lifecycle management: Role of standards. CAD Computer Aided Design, 2008, 40, 789-800. | 2.7 | 129 |
| 5 | CPM2: A Core Model for Product Data. Journal of Computing and Information Science in Engineering, 2008, 8, . | 2.7 | 101 |
| 6 | A Model for Capturing Product Assembly Information. Journal of Computing and Information Science in Engineering, 2006, 6, 11-21. | 2.7 | 73 |
| 7 | Product lifecycle management support: a challenge in supporting product design and manufacturing in a networked economy. International Journal of Product Lifecycle Management, 2005, 1, 4. | 0.3 | 65 |
| 8 | A multiagent system approach for image segmentation using genetic algorithms and extremal optimization heuristics. Pattern Recognition Letters, 2006, 27, 1230-1238. | 4.2 | 47 |
| 9 | Boolean Operations with Implicit and Parametric Representation of Primitives Using R-Functions. IEEE Transactions on Visualization and Computer Graphics, 2005, 11, 529-539. | 4.4 | 45 |
| 10 | Information models for product representation: core and assembly models. International Journal of Product Development, 2005, 2, 207. | 0.2 | 35 |
| 11 | A survey of wireless data center networks. , 2015, , . | | 34 |
| 12 | Geometric constraint solving: The witness configuration method. CAD Computer Aided Design, 2006, 38, 284-299. | 2.7 | 29 |
| 13 | Leveraging Known Data for Missing Label Prediction in Cultural Heritage Context. Applied Sciences (Switzerland), 2018, 8, 1768. | 2.5 | 29 |
| 14 | Exact, robust, and efficient regularized Booleans on general 3D meshes. Computers and Mathematics With Applications, 2015, 70, 1235-1254. | 2.7 | 26 |
| 15 | Towards bandwidth guaranteed energy efficient data center networking. Journal of Cloud Computing: Advances, Systems and Applications, 2015, 4, . | 3.9 | 20 |
| 16 | A literature review of sensor ontologies for manufacturing applications. , 2013, , . | | 19 |
| 17 | A methodology for the semi-automatic generation of analytical models in manufacturing. Computers in Industry, 2018, 95, 54-67. | 9.9 | 17 |
| 18 | Intention recognition in manufacturing applications. Robotics and Computer-Integrated Manufacturing, 2015, 33, 29-41. | 9.9 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Efficient techniques for energy saving in data center networks. Computer Communications, 2018, 129, 111-124. | 5.1 | 16 |
| 20 | Towards a Hierarchical Multitask Classification Framework for Cultural Heritage. , 2018, , . | | 15 |
| 21 | LaScaDa: A Novel Scalable Topology for Data Center Network. IEEE/ACM Transactions on Networking, 2020, 28, 2051-2064. | 3.8 | 15 |
| 22 | Study of ambient light influence for three-dimensional scanners based on structured light. Optical Engineering, 2007, 46, 030502. | 1.0 | 14 |
| 23 | Cross-industry standard test method developments: from manufacturing to wearable robots. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 1447-1457. | 2.6 | 14 |
| 24 | Green data center networks: a holistic survey and design guidelines. , 2019, , . | | 14 |
| 25 | Dupin Cyclide Blends Between Quadric Surfaces for Shape Modeling. Computer Graphics Forum, 2004, 23, 321-330. | 3.0 | 13 |
| 26 | PTNet: An efficient and green data center network. Journal of Parallel and Distributed Computing, 2017, 107, 3-18. | 4.1 | 13 |
| 27 | Ontology-based state representations for intention recognition in human-robot collaborative environments. Robotics and Autonomous Systems, 2013, 61, 1224-1234. | 5.1 | 12 |
| 28 | Cluster validity index based on Jeffrey divergence. Pattern Analysis and Applications, 2017, 20, 21-31. | 4.6 | 12 |
| 29 | Numerical decomposition of geometric constraints. , 2005, , . | | 11 |
| 30 | Radial Supershapes for Solid Modeling. Journal of Computer Science and Technology, 2006, 21, 238-243. | 1.5 | 11 |
| 31 | Nonlinear systems solver in floating-point arithmetic using LP reduction. , 2009, , . | | 11 |
| 32 | Cloud-based mobile system for biometrics authentication. , 2013, , . | | 11 |
| 33 | A general framework for performance guaranteed green data center networking. , 2014, , . | | 11 |
| 34 | Simulating a virtual machining model in an agent-based model for advanced analytics. Journal of Intelligent Manufacturing, 2019, 30, 1937-1955. | 7.3 | 11 |
| 35 | Genetic algorithms for 3d reconstruction with supershapes. , 2009, , . | | 10 |
| 36 | Total Variation for Image Denoising Based on a Novel Smart Edge Detector: An Application to Medical Images. Journal of Mathematical Imaging and Vision, 2019, 61, 106-121. | 1.3 | 10 |

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| 37 | Geometric constraints solving. , 2006, , . | | 9 |
| 38 | Supershape Recovery from 3D Data Sets. , 2006, , . | | 9 |
| 39 | A 2D geometric constraint solver using a graph reduction method. Advances in Engineering Software, 2010, 41, 1187-1194. | 3.8 | 9 |
| 40 | Hyper-Flatnet: A novel network architecture for data centers. , 2015, , . | | 9 |
| 41 | Digitization and Preservation of Cultural Heritage Products. IFIP Advances in Information and Communication Technology, 2017, , 241-253. | 0.7 | 9 |
| 42 | Secondary users selection and sparse narrow-band interference mitigation in cognitive radio networks. Computer Communications, 2018, 123, 97-115. | 5.1 | 9 |
| 43 | Genetic Algorithms for Gielis Surface Recovery from 3D Data Sets. , 2007, , . | | 8 |
| 44 | Conversion of Dupin Cyclide Patches into Rational Biquadratic Bézier Form. Lecture Notes in Computer Science, 2005, , 201-218. | 1.3 | 8 |
| 45 | NIR and Visible Image Fusion for Improving Face Recognition at Long Distance. Lecture Notes in Computer Science, 2014, , 549-557. | 1.3 | 8 |
| 46 | Multiresolution analysis for irregular meshes. , 2004, , . | | 7 |
| 47 | Interrogating witnesses for geometric constraint solving. , 2009, , . | | 7 |
| 48 | LaCoDa: Layered connected topology for massive data centers. Journal of Network and Computer Applications, 2017, 83, 169-180. | 9.1 | 7 |
| 49 | Achieving energy efficiency in data centers with a performance-guaranteed power aware routing. Computer Communications, 2017, 109, 131-145. | 5.1 | 7 |
| 50 | Investigating low-delay deep learning-based cultural image reconstruction. Journal of Real-Time Image Processing, 2020, 17, 1911-1926. | 3.5 | 7 |
| 51 | Interrogating witnesses for geometric constraint solving. Information and Computation, 2012, 216, 24-38. | 0.7 | 6 |
| 52 | ScalNet: A Novel Network Architecture for Data Centers. , 2015, , . | | 6 |
| 53 | Sparsity-aware multiple relay selection in large dual-hop decode-and-forward broadband relay networks. , 2016, , . | | 6 |
| 54 | PTNet: A parameterizable data center network. , 2016, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
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| 55 | Wireless Interference Estimation Using Machine Learning in a Robotic Force-Seeking Scenario. , 2019, , . | | 6 |
| 56 | INTERVAL-BASED TRACING OF STRANGE ATTRACTORS. International Journal of Computational Geometry and Applications, 2006, 16, 27-39. | 0.5 | 5 |
| 57 | Ontology-based state representation for intention recognition in cooperative human-robot environments. , 2012, , . | | 5 |
| 58 | Polytope-based computation of polynomial ranges. Computer Aided Geometric Design, 2012, 29, 18-29. | 1.2 | 5 |
| 59 | Strengthening surf descriptor with discriminant image filter learning: application to face recognition. , 2014, , . | | 5 |
| 60 | Computation of Yvon-Villarceau circles on Dupin cyclides and construction of circular edge right triangles on tori and Dupin cyclides. Computers and Mathematics With Applications, 2014, 68, 1689-1709. | 2.7 | 5 |
| 61 | wFlatnet: Introducing Wireless in Flatnet Data Center Network. , 2015, , . | | 5 |
| 62 | An e-learning mobile system to generate illustrations for Arabic text. , 2016, , . | | 5 |
| 63 | A SysML representation of the wireless factory work cell. International Journal of Advanced Manufacturing Technology, 2019, 104, 119-140. | 3.0 | 5 |
| 64 | Conversion d'un carreau de BÃ©zier rationnel biquadratique en un carreau de cyclide de Dupin quartique. Techniques Et Sciences Informatiques, 2006, 25, 709-734. | 0.0 | 5 |
| 65 | Performance evaluation of robotic knowledge representation (PERK). , 2012, , . | | 4 |
| 66 | Pixel level fusion of multispectral face images: Short review. , 2013, , . | | 4 |
| 67 | Studies on the Effectiveness of Multispectral Images for Face Recognition: Comparative Studies and New Approaches. , 2013, , . | | 4 |
| 68 | Dynamic best spectral bands selection for face recognition. , 2014, , . | | 4 |
| 69 | A kernelized sparsity-based approach for best spectral bands selection for face recognition. Multimedia Tools and Applications, 2015, 74, 8631-8654. | 3.9 | 4 |
| 70 | VacoNet: Variable and connected architecture for data center networks. , 2016, , . | | 4 |
| 71 | Model of Mobile Manipulator Performance Measurement using SysML. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 92, 65-83. | 3.4 | 4 |
| 72 | Inferring Intention through State Representations in Cooperative Human-Robot Environments. Advances in Mechatronics and Mechanical Engineering, 2013, , 122-151. | 1.0 | 4 |

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| 73 | Construction of 3D Triangles on Dupin Cyclides. International Journal of Computer Vision and Image Processing, 2011, 1, 42-57. | 0.4 | 4 |
| 74 | A 3D shape matching and retrieval approach based on fusion of curvature and geometric diffusion features. International Journal of Computer Applications in Technology, 2017, 55, 79. | 0.5 | 4 |
| 75 | Analysis and Evaluation for STEP-Based Electromechanical Assemblies. Journal of Computing and Information Science in Engineering, 2006, 6, 276-287. | 2.7 | 3 |
| 76 | Fuzzy-logic-based approach for identifying objects of interest in the PRIDE framework. , 2008, , . | | 3 |
| 77 | Trademarks recognition based on local regions similarities. , 2010, , . | | 3 |
| 78 | A FCM and SURF Based Algorithm for Segmentation of Multispectral Face Images. , 2013, , . | | 3 |
| 79 | Witness computation for solving geometric constraint systems. , 2014, , . | | 3 |
| 80 | Towards a Reference Architecture for Archival Systems: Use Case With Product Data. Journal of Computing and Information Science in Engineering, 2014, 14, . | 2.7 | 3 |
| 81 | Matching with quantum genetic algorithm and shape contexts. , 2014, , . | | 3 |
| 82 | A Guaranteed Performance of a Green Data Center Based on the Contribution of Vital Nodes. , 2016, , . | | 3 |
| 83 | Re-parameterization reduces irreducible geometric constraint systems. CAD Computer Aided Design, 2016, 70, 182-192. | 2.7 | 3 |
| 84 | A Graph Database Approach to Wireless IIoT Workcell Performance Evaluation. , 2020, , . | | 3 |
| 85 | Study and Evaluation of Pre-trained CNN Networks for Cultural Heritage Image Classification. , 2021, , 47-69. | | 3 |
| 86 | Toward a Reference Architecture for Archival Systems. IFIP Advances in Information and Communication Technology, 2013, , 68-77. | 0.7 | 3 |
| 87 | Fuzzy Distributed Genetic Approaches for Image Segmentation. Journal of Computing and Information Technology, 2010, 18, 221. | 0.3 | 3 |
| 88 | Generic attribute deviation metric for assessing mesh simplification algorithm quality. , 0, , . | | 2 |
| 89 | Analysis and Evaluation for STEP-Based Electro-Mechanical Assemblies: An Integrated Fuzzy AHP Approach. , 2004, , 553. | | 2 |
| 90 | MRF and multiagent system based approach for image segmentation. , 0, , . | | 2 |

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| 91 | <title>Denoising 3D models with attributes using soft thresholding</title> . , 2004, 5607, 139. | | 2 |
| 92 | Multiresolution analysis for meshes with appearance attributes. , 2005, , . | | 2 |
| 93 | Chaotic multiagent system approach for MRF-based image segmentation. Proc Int Symp Image Signal Process Anal, 2005, , . | 0.0 | 2 |
| 94 | Color influence on accuracy of 3D scanners based on structured light. , 2006, , . | | 2 |
| 95 | 3D Reconstruction of rough terrain for USARSim using a height-map method. , 2008, , . | | 2 |
| 96 | OPTIMIZATIONS FOR TENSORIAL BERNSTEIN-BASED SOLVERS BY USING POLYHEDRAL BOUNDS. International Journal of Shape Modeling, 2010, 16, 109-128. | 0.2 | 2 |
| 97 | Recent advances in multiresolution analysis of 3D meshes and their applications. , 2010, , . | | 2 |
| 98 | A Novel Image Texture Fusion Scheme for Improving Multispectral Face Recognition. , 2014, , . | | 2 |
| 99 | A survey of semantic web concepts applied in web services and big data. , 2014, , . | | 2 |
| 100 | Dupin cyclide blends between non-natural quadrics of revolution and concrete shape modeling applications. Computers and Graphics, 2014, 42, 31-41. | 2.5 | 2 |
| 101 | Dynamic customisation, validation and integration of product data models using semantic web tools. International Journal of Product Lifecycle Management, 2014, 7, 38. | 0.3 | 2 |
| 102 | Unsupervised geodesic convex combination of shape dissimilarity measures. Pattern Recognition Letters, 2017, 98, 46-52. | 4.2 | 2 |
| 103 | A proposed mapping method for aligning machine execution data to numerical control code. , 2019, , . | | 2 |
| 104 | Towards a better integration of modelers and black box constraint solvers within the product design process. Annals of Mathematics and Artificial Intelligence, 2019, 85, 147-173. | 1.3 | 2 |
| 105 | Detecting All Dependences in Systems of Geometric Constraints Using the Witness Method. , 2006, , 98-112. | | 2 |
| 106 | Dynamic Customization and Validation of Product Data Models Using Semantic Web Tools. International Federation for Information Processing, 2012, , 569-577. | 0.4 | 2 |
| 107 | Multilinear Sparse Decomposition for Best Spectral Bands Selection. Lecture Notes in Computer Science, 2014, , 384-391. | 1.3 | 2 |
| 108 | Rational supershapes for surface reconstruction. , 2007, , . | | 1 |

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| 109 | Performance evaluation of cost-based vs. fuzzy-logic-based prediction approaches in PRIDE. , 2008, , . | | 1 |
| 110 | G1-Blend between a Differentiable Superquadric of Revolution and a Plane or a Sphere Using Dupin Cyclides. , 2008, , . | | 1 |
| 111 | Higher education internationalization: The Erasmus-Mundus network added value. , 2014, , . | | 1 |
| 112 | Modified total variation regularization using fuzzy complement for image denoising. , 2015, , . | | 1 |
| 113 | Solving the pentahedron problem. CAD Computer Aided Design, 2015, 58, 200-209. | 2.7 | 1 |
| 114 | Audio-Visual Video Classification System Design: For Arabic News Domain. , 2016, , . | | 1 |
| 115 | Edge guided total variation for image denoising. , 2017, , . | | 1 |
| 116 | Integrating Variability Management in Data Center Networks. , 2017, , . | | 1 |
| 117 | EQUATIONS AND INTERVAL COMPUTATIONS FOR SOME FRACTALS. Fractals, 2018, 26, 1850059. | 3.7 | 1 |
| 118 | MRF Model-Based Approach for Image Segmentation Using a Chaotic MultiAgent System. Lecture Notes in Computer Science, 2006, , 344-353. | 1.3 | 1 |
| 119 | On the Impact of Wireless Communications on Controlling a Two-Dimensional Gantry System. , 2019, , . | | 1 |
| 120 | <title>Iterative processes convergency</title>. , 1996, , . | | 0 |
| 121 | SITIS 2008 Editorial Messages. , 2008, , . | | 0 |
| 122 | An Algorithm to Construct 3D Triangles with Circular Edges. , 2009, , . | | 0 |
| 123 | SIT: Track on Signal Image Technology. , 2009, , . | | 0 |
| 124 | Polytope-based computation of polynomial ranges. , 2010, , . | | 0 |
| 125 | DEXML: A First Step Toward a UML Based Implementation Framework for PLCS. , 2011, , . | | 0 |
| 126 | Incorporating Haptic and Olfactory into Surgical Simulation. , 2013, , . | | 0 |

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| 127 | Solution isolation strategies for the Bernstein polytopes-based solver. , 2013, , . | | 0 |
| 128 | Gravitational weighted fuzzy c-means with application on multispectral image segmentation. , 2014, , . | | 0 |
| 129 | A comparative study of best spectral bands selection systems for face recognition. , 2014, , . | | 0 |
| 130 | Data structures and algorithms for topological analysis. , 2014, , . | | 0 |
| 131 | A Survey on Educational Ontologies and Their Development Cycle. IFIP Advances in Information and Communication Technology, 2016, , 649-658. | 0.7 | 0 |
| 132 | Multispectral Image Denoising Using Optimized Vector NLM Filter. Lecture Notes in Computer Science, 2016, , 309-320. | 1.3 | 0 |
| 133 | An improved star test for implicit polynomial objects. CAD Computer Aided Design, 2016, 70, 161-170. | 2.7 | 0 |
| 134 | An automated approach to translate a biological process from ODEs into graphical hybrid functional Petri Nets. , 2017, , . | | 0 |
| 135 | Exploiting Sparsity in Amplify-and-Forward Broadband Multiple Relay Selection. IEEE Access, 2019, 7, 57985-57995. | 4.2 | 0 |
| 136 | Construction of 3D Triangles on Dupin Cyclides. , 2013, , 113-127. | | 0 |
| 137 | New Geometric Constraint Solving Formulation: Application to the 3D Pentahedron. Lecture Notes in Computer Science, 2014, , 594-601. | 1.3 | 0 |
| 138 | Evaluating State-Based Intention Recognition Algorithms against Human Performance. Advances in Intelligent Systems and Computing, 2014, , 219-232. | 0.6 | 0 |
| 139 | On Dependability Traffic Load and Energy Consumption Tradeoff in Data Center Networks. , 2018, , . | | 0 |
| 140 | Smart Manufacturing Testbed for the Advancement of Wireless Adoption in the Factory. IFIP Advances in Information and Communication Technology, 2020, , 176-189. | 0.7 | 0 |
| 141 | Robustness and Randomness. Lecture Notes in Computer Science, 2008, , 127-148. | 1.3 | 0 |