

# Balasubramaniam Jayaram

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1134663/publications.pdf>

Version: 2024-02-01

57  
papers

1,195  
citations

516215

16  
h-index

395343

33  
g-index

63  
all docs

63  
docs citations

63  
times ranked

276  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | - and R-implications: A state-of-the-art survey. Fuzzy Sets and Systems, 2008, 159, 1836-1859.  | 1.6 | 137       |
| 2  | On the Law of Importation $(x \wedge y) \rightarrow z \equiv (x \rightarrow (y \rightarrow z))$ . Fuzzy Sets and Systems, 2009, 160, 2049-2062.                   | 6.5 | 96        |
| 3  | On the distributivity of implication operators over T and S norms. IEEE Transactions on Fuzzy Systems, 2004, 12, 194-198.   | 6.5 | 94        |
| 4  | On the characterizations of $\rightarrow$ -implications. Fuzzy Sets and Systems, 2007, 158, 1713-1727.  | 1.6 | 94        |
| 5  | On the Suitability of the Bandler's "Kohout Subproduct as an Inference Mechanism. IEEE Transactions on Fuzzy Systems, 2010, 18, 285-298.                          | 6.5 | 69        |
| 6  | (U,N)-implications and their characterizations. Fuzzy Sets and Systems, 2009, 160, 2049-2062.   | 1.6 | 68        |
| 7  | On the Distributivity of Fuzzy Implications Over Nilpotent or Strict Triangular Conorms. IEEE Transactions on Fuzzy Systems, 2009, 17, 590-603.                   | 6.5 | 68        |
| 8  | QL-implications: Some properties and intersections. Fuzzy Sets and Systems, 2010, 161, 158-188.   | 1.6 | 66        |
| 9  | I-Fuzzy equivalence relations and I-fuzzy partitions. Information Sciences, 2009, 179, 1278-1297.   | 4.0 | 57        |
| 10 | Rule reduction for efficient inferencing in similarity based reasoning. International Journal of Approximate Reasoning, 2008, 48, 156-173.                        | 1.9 | 44        |
| 11 | Fuzzy Implications: Past, Present, and Future. , 2015, , 183-202.   |     | 44        |
| 12 | On special fuzzy implications. Fuzzy Sets and Systems, 2009, 160, 2063-2085.  | 1.6 | 39        |
| 13 | Contrapositive symmetrisation of fuzzy implications "Revisited. Fuzzy Sets and Systems, 2006, 157, 2291-2310.   | 1.6 | 30        |
| 14 | The $\tilde{\rightarrow}$ -composition of fuzzy implications: Closures with respect to properties, powers and families. Fuzzy Sets and Systems, 2015, 275, 58-87. | 1.6 | 27        |
| 15 | Interpolativity of at-least and at-most models of monotone fuzzy rule bases with multiple antecedent variables. Fuzzy Sets and Systems, 2016, 297, 26-45.         | 1.6 | 25        |
| 16 | SISO fuzzy relational inference systems based on fuzzy implications are universal approximators. Fuzzy Sets and Systems, 2015, 277, 1-21.                         | 1.6 | 24        |
| 17 | Representations through a monoid on the set of fuzzy implications. Fuzzy Sets and Systems, 2014, 247, 51-67.  | 1.6 | 23        |
| 18 | Bandler's "Kohout Subproduct With Yager's Classes of Fuzzy Implications. IEEE Transactions on Fuzzy Systems, 2014, 22, 469-482.                                   | 6.5 | 17        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Monotonicity of SISO Fuzzy Relational Inference With an Implicative Rule Base. IEEE Transactions on Fuzzy Systems, 2016, 24, 1475-1487.  | 6.5 | 15        |
| 20 | Fuzzy implications: alpha migrativity and generalised laws of importation. Information Sciences, 2020, 531, 87-96.   | 4.0 | 13        |
| 21 | Fuzzy Inference System based Contrast Enhancement. , 2011, , .   |     | 13        |
| 22 | Intersections between some families of (U,N)- and RU-implications. Fuzzy Sets and Systems, 2011, 167, 30-44.   | 1.6 | 12        |
| 23 | Can unbounded distance measures mitigate the curse of dimensionality?. International Journal of Data Mining, Modelling and Management, 2012, 4, 361.   | 0.1 | 11        |
| 24 | An Introduction to Fuzzy Implications. Studies in Fuzziness and Soft Computing, 2008, , 1-35.  | 0.6 | 9         |
| 25 | R-implications and the exchange principle: The case of border continuous t-norms. Fuzzy Sets and Systems, 2013, 224, 93-105.   | 1.6 | 9         |
| 26 | What are Clusters in High Dimensions and are they Difficult to Find?. Lecture Notes in Computer Science, 2015, , 14-33.  | 1.0 | 9         |
| 27 | Solution to an open problem: a characterization of conditionally cancellative t-subnorms. Aequationes Mathematicae, 2012, 84, 235-244.   | 0.4 | 8         |
| 28 | Measuring Concentration of Distancesâ€”An Effective and Efficient Empirical Index. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 373-386.   | 4.0 | 8         |
| 29 | Order based on associative operations. Information Sciences, 2021, 566, 326-346.   | 4.0 | 8         |
| 30 | Importation lattices. Fuzzy Sets and Systems, 2021, 405, 1-17.   | 1.6 | 6         |
| 31 | On the continuity of residuals of triangular norms. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 1010-1018.   | 0.6 | 5         |
| 32 | Lattice operations on fuzzy implications and the preservation of the exchange principle. Fuzzy Sets and Systems, 2016, 301, 64-78.   | 1.6 | 4         |
| 33 | A short note on fuzzy relational inference systems. Fuzzy Sets and Systems, 2018, 338, 90-96.  | 1.6 | 4         |
| 34 | On the computational aspects of the BK-subproduct inference mechanism. , 2009, , .   |     | 3         |
| 35 | Approximation capability of SISO Fuzzy Relational Inference systems based on fuzzy implications. , 2013, Homomorphisms on the monoid of fuzzy implications and the iterative functional equation   |     | 3         |
| 36 | $\langle \text{mml:math altimg}=\text{"si39.gif"} \text{ overflow}=\text{"scroll"} \text{ xmlns:xocs}=\text{"http://www.elsevier.com/xml/xocs/dtd"} \text{ xmlns:xs}=\text{"http://www.w3.org/2001/XMLSchema"} \text{ xmlns:xsi}=\text{"http://www.w3.org/2001/XMLSchema-instance"} \text{ xmlns}=\text{"http://www.elsevier.com/xml/ja/dtd"} \text{ xmlns:ja}=\text{"http://www.elsevier.com/xml/ja/dtd"} \text{ xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ xmlns:tb}=\text{"http://www.elsevier.com/xml/common/table/dtd"} \text{ xmlns:sb}=\text{"http://www.elsevier.com/xml/"} \text{ In}$ | 4.0 | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | T-subnorms with strong associated negation: Some properties. Fuzzy Sets and Systems, 2017, 323, 94-102.  | 1.6 | 3         |
| 38 | Fuzzy Implications from Fuzzy Logic Operations. Studies in Fuzziness and Soft Computing, 2008, , 39-107.   | 0.6 | 3         |
| 39 | R-implications and the Exchange Principle:A Complete Characterization. , 2011, , .   |     | 2         |
| 40 | Erratum to "On the characterizations of $S$ -implications and $N$ -implications" [1]. Tj ETQd 16 0 0 rgBT /Overlock  | 1.6 | 1         |
| 41 | RaCoCl: Robust rank correlation based clustering - An exploratory study for high-dimensional data. , 2013, , .   |     | 1         |
| 42 | Homomorphisms on the monoid of fuzzy implications. , 2013, , .   |     | 1         |
| 43 | Fuzzy Implications: Some Recently Solved Problems. Studies in Fuzziness and Soft Computing, 2013, , 177-204.   | 0.6 | 1         |
| 44 | On an Open Problem of U. Höhle - A Characterization of Conditionally Cancellative T-Subnorms. Communications in Computer and Information Science, 2010, , 676-682.         | 0.4 | 1         |
| 45 | Similarity-Based Reasoning Fuzzy Systems and Universal Approximation. Springer Proceedings in Mathematics and Statistics, 2014, , 215-230.                                 | 0.1 | 1         |
| 46 | Analysis of contingency tables based on generalised median polish with power transformations and non-additive models. Health Information Science and Systems, 2013, 1, 11. | 3.4 | 0         |
| 47 | Bijjective transformations of fuzzy implications " An algebraic perspective. Fuzzy Sets and Systems, 2016, 291, 3-17.  | 1.6 | 0         |
| 48 | On alpha-Migrativity of Fuzzy Implications and the Generalised Laws of Importation. , 2018, , .  |     | 0         |
| 49 | Importation Algebras. Advances in Intelligent Systems and Computing, 2019, , 83-94.  | 0.5 | 0         |
| 50 | Homomorphisms on the Monoid of Fuzzy Implications $(\mathbb{I}, \circledast)$ - A Complete Characterization. Lecture Notes in Computer Science, 2013, , 563-568.           | 1.0 | 0         |
| 51 | Performance of Minkowski-type Distances in Similarity Search - A Geometrical Approach. , 2020, , .   |     | 0         |
| 52 | On the Unsurprising Behaviour of Kernels in High Dimensions. , 2020, , .   |     | 0         |
| 53 | Fuzzy Implications from Generator Functions. Studies in Fuzziness and Soft Computing, 0, , 109-125.  | 0.6 | 0         |
| 54 | Intersections between Families of Fuzzy Implications. Studies in Fuzziness and Soft Computing, 0, , 127-143.   | 0.6 | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Fuzzy Implications from Uninorms. Studies in Fuzziness and Soft Computing, 0, , 145-177.                 | 0.6 | 0         |
| 56 | Algebraic Structures of Fuzzy Implications. Studies in Fuzziness and Soft Computing, 0, , 181-204.       | 0.6 | 0         |
| 57 | Fuzzy Implications and Some Functional Equations. Studies in Fuzziness and Soft Computing, 0, , 207-240. | 0.6 | 0         |