Dr.A.B.Arockia Christopher

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Highlights

- Information Technology Innovation
- Sponsored Search
- Aircraft Industry and Applications
- Data Mining Theories and Applications

Research Experience

International Journals

Arockia Christopher, AB & Antony Anderson, AB, 'Analysis of flight delays in aviation system using different classification algorithms and feature selection methods', *Aeronautical Journal*, Royal Aeronautical Society, London, **ISSN:** 0001 9240 in Anna University-Chennai, **Annexure I**, September 2019, Vol. 123, No. 1267, pp. 1415-1436. Impact Factor: 1.180 **DOI: http://dsi:doi:org/10.1017/S00019240000009623.** *SCI (Science Citation Indexed) Journal*

Arockia Christopher, AB & Shunmughavel, V, 'Large Scale Data Analysis on Aviation Accident Database using different Data Mining Techniques.', *Aeronautical Journal*, Royal Aeronautical Society, London, **ISSN:** 0001 9240 in Anna University-Chennai, **Annexure I**, December 2016, Vol.120, No.1234, PP. 1849-1866. Impact Factor: 1.180 **DOI:10.1017/aer.2016.107**, *SCI (Science Citation Indexed) Journal*

Arockia Christopher, AB & Appavu alias Balamurugan, S, 'Prediction of warning level in aircraft accidents using data mining techniques', *Aeronautical Journal*, Royal

Aeronautical Society, London, **ISSN:** 0001 9240 in Anna University-Chennai, **Annexure I**, August 2014, Vol. 118, No. 1206, pp. 935-952. Impact Factor: 1.180 **DOI: http://dsi:doi:org/10.1017/S00019240000009623.** *SCI (Science Citation Indexed) Journal*

Arockia Christopher, AB & Appavu alis Balamurugan**,** 'Data pre-processing for classification and clustering', International Journal of *Computer Science and Technology*, pp.1-6, January-June 2012, **ISSN:** 2249-0701.

Arockia Christopher, AB & Balakrishnan, M, 'An Effective E-Learning Services using Different Web Service Component Interfaces.', International Journal of Advance Research in Science and Engineering, **ISSN:** 2319-8354 in UGC Approved List Journal No: 47721, October 2017, Vol.06, Issue No.10, PP. 1849-1866. Impact Factor: 2.83

Arockia Christopher, AB & Balakrishnan, M, 'An Effective different data mining algorithms for Prediction of warning level in Aircraft Accident Dataset.', International Journal of Advance Research in Science and Engineering, **ISBN:** 978-93-86171-75-7 in UGC Approved List Journal No: 47721, November 2017, Vol.06, Issue No.11, PP. 1849-1866. Impact Factor: 2.83

International Journal Papers under Review

"EUTOME - To solve ties in decision tree induction algorithm". With **Arockia Christopher, AB,** Antony Anderson, AB and Appavu alias Balamurugan, S. **Under review** at Journal of Computational Statistics and Data Analysis- Elsevier **ISSN**: 0167-9473.

Major Research Project

I have been appointed as **Project Associate** under UGC funded major research project entitled "***Data Tuner for Effective Data-Preprocessing",*** in Department of Information Technology, for a period of three years between 2011 and 2014 under the guidance of Dr.S.Appavu alias Balamurugan, Principal Investigator of Information Technology, Thiagarajar College of Engineering, Madurai – 625 015.

The implementation of the project *"Data Tuner for Effective Data-Preprocessing",* a major research project sponsored by University Grant Commission, New Delhi, India. Vide reference *F.No. 39-899 / 2010 (SR)*

Major contributions towards this project are in the area of: "Removal of redundant, conflicting data and irrelevant, redundant features" using WEKA Tool.

External UGC Funds Received Rs.6, 51,000.00.

Monograph Scientific Book Published

Arockia Christopher, AB & Appavu alias Balamurugan, S; "Insight into Data Preprocessing: Theory and Practice," *Data Mining Perspective: LAP LAMBERT Academic Publishing (May 2, 2012), Germany,* **ISBN:** 978-3-8484-3062-8.

Arockia Christopher, AB & Balakrishnan, M; "Data Mining: Case Study based Aircraft accident Analysis using different Classifiers," *LAP LAMBERT Academic Publishing (October 11, 2017), Germany,* **ISBN:** 978-3-659-12307-8.

Arockia Christopher, AB & Balakrishnan, M; "Online Tutoring using web services," *LAP LAMBERT Academic Publishing (October 31, 2017), Germany,* **ISBN:** 978-620-2-05839-1.

Arockia Christopher, AB & Balakrishnan, M; "Web Service component using E-Learning," *LAP LAMBERT Academic Publishing (January 24, 2019), Germany,* **ISBN:** 978-613-9-44441-0.

Refereed Conference Proceedings

Other Countries

Arockia Christopher, AB & Appavu alias Balamurugan, S, 'A predictive model using improved normalized point wise mutual Information INPMI', *International Conference on IEEE ICT & Knowledge Engineering (ICTKE 2013),* Siam University, Bangkok, Thailand during November 20-22, 2013, pp.90-98, **ISBN:** 978-1-4799-2296-3, **IEEE** Catalog Number : CFP1328H-POD.

Tamilnadu and Other States

Arockia Christopher, AB & Balakrishnan, M, 'Prediction of cardiovascular Disease using Machine Learning', **AICTE Sponsored** *International e-Conference on Data Analytics, Intelligent Systems and Information Security (ICDIIS'20)*, Dr.Mahalingam College of Engineering and Technology, Pollachi, Coimbatore – 642 003, India during Dec 11 and 12, 2020.

Arockia Christopher, AB & Appavu alias Balamurugan, S, 'Prediction of warning level in aircraft accidents using classification algorithms', *International Conference on Advanced Computing, Networking and Informatics (ICACNI 2013)*, Central Institute of Technology, Raipur, Chahattisgarh - 493661, India during June 12-14, 2013, pp. 1217-1223, **ISBN:** 978-81-322-1665-0, **Springer.**

Arockia Christopher, AB & Appavu alias Balamurugan, S, 'Data tuner for effective data pre-processing', *International Conference on Advances in Engineering, Science and Management (ICAESM 2012)*, E.G.S. Pillay Engineering College, Nagapattinam, Tamilnadu, India during March 30-31, 2012, pp. 804-810, **ISBN:** 978-1-4673-0213-5, **IEEE** Explorer.

Arockia Christopher, AB & Appavu alias Balamurugan, S.; "Feature Selection Techniques for Prediction of Warning level in Aircraft Accidents," International Conference on Advanced Computing and Communication Systems (ICACCS 2013), Sri Eshwar College of Engineering, Coimbatore-202, Tamilnadu, India during December 19-21, 2013. **DOI**: 10.1109/ICACCS.2013.6938694. **IEEE Explorer.**

Arockia Christopher, AB & Appavu alias Balamurugan, S, 'Data mining approaches for aircraft accidents prediction: An empirical study on Turkey airline', *International Conference on Emerging Trends in Computing, Communication and Nanotechnology (ICECCN 2013)*, Infant Jesus College of engineering and Technology, India during March 25-26, 2013, pp. 40-46. **ISBN:** 978-1-4673-5036-5, **IEEE** Explorer.

Arockia Christopher, AB & Appavu alias Balamurugan, S, 'Performance of different clustering methods and classification algorithms for prediction of warning level in aircraft accidents: An empirical study', *International Conference on Computing, Communications and Networking Technologies (ICCCNT-2013)*, Vivekananda College of Engineering for Women, Tiruchengode - 637205, India during July 4-6, 2013, pp. 2213-2219, **ISBN:** 978-1-4799-3927-5**, IEEE** Explorer.

Arockia Christopher, AB & Appavu alias Balamurugan, S, 'Data tuner: An effective data pre-processing tool', *International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems (ICDASDC)*, K.L.N. College of Information Technology, Sivagangai, Tamilnadu, India during December 21-22, 2012, pp. 99-108, **ISBN:** 978-81-923777-9-7.

Arockia Christopher, AB & Appavu alias Balamurugan, S, 'Decision tree classifier and feature selection techniques for prediction of warning level in aircraft accidents', *International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems (ICDASDC) 2013)*, K.L.N College of Information Technology, Pottapalayam-630611, Sivagangai, Tamilnadu, India during November 29-30, 2013.

Arockia Christopher, AB & Appavu alias Balamurugan, S, 'A survey on preprocessing techniques in data mining', *National Conference on Knowledge Discovery and Data Mining,* Thiagarajar College of Engineering, Madurai, Tamilnadu during August 22-23 2011, pp. 43-47, **ISBN**: 978-93-81361-21-4.

Arockia Christopher, AB, 'IP2IP: IP to IP Based Mobility Support Protocol', *National Conference on Computing and Communication Technologies (N3CT 2010),* Surya Engineering College, Mettukadai, Erode – 638 107, Tamilnadu during March 20, 2010.

Arockia Christopher, AB, 'An Effective Web Server Log Analysis System using different techniques in Cloud Computing', *National Conference on Trends in Engineering Applications and Management (NCTEAM 2016),* Vellar College of Engineering, Erode – 638 107, Tamilnadu during March 16, 2016.

Arockia Christopher, AB, 'Prediction of delivering an article by Post office to the Customer', Inter*national Conference on* Scientific Research of Engineering and Technology *(ICSRET 2017),* Ranganathan College of Engineering, Coimbatore, Tamilnadu during March 15-18, 2017.