R Kishore Kumar

Personal Data

Place and Date of Birth:	Kharagpur, West Bengal | 20 July 1989
Address:	No, B-237, B R Ambedkar Hall of Residence, IIT Kharagpur Kharagpur, West Bengal
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Research Interests

Speech Processing, Pattern Recognition, Machine Learning, Big Data, Web Service Security, and Web Content Mining.

Education

Present — Doctor of Philosophy in Computer Science & Engineering,
Indian Institute of Technology Kharagpur, Kharagpur
Major: Speech Processing
Thesis: "Unsupervised Clustering of Speech Utterances into broader domains"
Advisor: Prof. K Srinivasa Rao

July 2013 — Master of Engineering in Computer Science & Engineering,
SSN College of Engineering, Kalavakkam, Chennai
Major: Web Service Security
Thesis: "An SOA based approach for Handling Security Threats"
Advisor: Prof. R Kanchana
Gpa: 8.1/10

July 2011 — Bachelor of Engineering in Computer Science & Engineering,
Rajalakshmi Engineering College, Thandalam, Chennai
Major: Web Content Mining
Thesis: "Correlation Based Method to Detect and Remove Redundant Web Document"
Advisor: Prof. S Poonkuzhali
Gpa: 79/100

Work Experience

March 2015 – March 2018 — Senior Scientific Officer at IIT Kharagpur
In the research project entitled "Speech Access of Agricultural Commodity Prices and Weather Information in 12 Indian Languages/Dialects. Automatic Speech Recognition (ASR) Consortium - Phase-II (RIS)" sponsored by DIT New Delhi.

July 2013 – April 2015 — Assistant Professor at Rajalakshmi Engineering College
In the Department of Information Technology, Rajalakshmi Engineering College, Thandalam, Chennai.

PhD Thesis

Title:	Unsupervised Clustering of Speech Utterances into broader domains
Overview	The task is to segregate the entire speech corpus into meaningful clusters at a broader semantic level. The speech query will be checked against broader clusters with domain-specific keywords for retrieving the relevant speech utterances.

ME Thesis

Title:	An SOA based approach for Handling Security Threats
Overview	Providing security for web services and composition of web services. The security is provided to the threats which occur at services level. Also, API based security solutions are provided which can be provide plug and serve security.

BE Thesis

Title:	Correlation Based Method to Detect and Remove Redundant Web Document
Overview	Eliminating redundant web documents in Internet by performing correlation between term frequency across the search web documents.

Scholarships and Certificates

Feb. 2011	Received **Partial Grant support from Tamil Nadu State Council of Scientific Research** for oral presentation, in the 10^{th} WSEAS International Conference on Applied Computer and Applied computational Science, Venice, Italy, March 8-10, 2011.
Aug. 2010	Received **Best Paper Award for the paper** entitled, Mathematical Approach for Removing Duplicated Web Document, in the National Conference on Information Retrieval and Network Security, at Knowledge Utsav, Bangalore.

Journal Publications

Feb. 2019	**Kishore Kumar R**, Sreenivasa Rao K, Unsupervised Pattern Discovery and Clustering of Speech Utterances based on Phoneme Segmentation, Circuits, Systems and Signal Processing, (Under Review).
Dec. 2018	**Kishore Kumar R**, Lokendra Birla, Sreenivasa Rao K, A robust unsupervised pattern discovery and clustering of speech signals, Pattern Recognition Letters, Vol. 116, PP 254-261, 2018.
Jan. 2017	Poonkuzhali S, **Kishore Kumar R**, and Thirumurugan S, A Novel Algorithm for Enhancing Search Results by Detecting Dissimilar Patterns Based on Correlation Method, The International Arab Journal of Information Technology, Vol. 14 (1), PP 60-69, 2017.
Apr. 2013	**Kishore Kumar R**, R. Kanchana, Chitra Babu, Security for SOAP based Communication among Web Services, International Journal of Computer Applications, PP. 46-51, 2013.
Jan. 2011	G. Poonkuzhali, **Kishore Kumar R**, R. Kripa Keshev, P. Sudhakar, and K.Sarukesi, Correlation Based Method to Detect and Remove Redundant Web Document, Advanced Materials Research, Vols. 171 - 172, PP. 543-546, 2011.

Book Chapters

Jul. 2011 G. Poonkuzhali, **Kishore Kumar R**, R Kripa Keshev
Improving the Quality of Search Results by Eliminating Web Outliers using Chi-Square,
Advances in Computer Science and Education Applications
Springer, pp. 557-565, 2011.

Conference Publications

Dec. 2018 **Kishore Kumar R**, Sandipan Sarkar, Pradeep Rengaswamy, Sreenivasa Rao K
Audio Mining: Unsupervised Spoken Term Detection over an Audio Database
2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI), PP. 514-518, Bangalore, 2018

Dec. 2013 Kanchana R, Chitra Babu, **Kishore Kumar R**
API based security solutions for communication among web services
Proceedings of Fifth International Conference on Advanced Computing,
ICoAC 2013, PP. 571-575, MIT Campus, Anna University Chennai, 2013 .

Aug. 2010 **Kishore Kumar R**, R Kripa Keshev, G Poonkuzhali,
Correlation Based Method to Identify and Remove Redundant Web Document,
Conference on the Network Security and Information Retrieval,
held at Jain University, Global Campus, Kanakapura Taluk, Bangalore, 2010
(Selected as one of the Best Paper in the Conference).

Languages

Tamil: Mother Tongue
English: Fluent
Hindi: Basic Knowledge

Interests and Activities

Technology, Open-Source, Programming