Dwaipayan Roy

Senior Research Fellow

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Research Area

Information Retrieval, Data Mining, Natural Language Processing

Sub Area

○ Word Embeddings for Information Retrieval

○ Scholarly Citation Recommendations

○ Search Result Diversification in Information Retrieval

○ Retrieval Models for Information Retrieval

Publications

***Roy, D.**, Ganguly, D., Mitra, M., Jones, G.* **Word Embedding based Relevance Feedback using Kernel Density Estimation**. *CIKM-16.*

***Roy, D.**, Ganguly, D., Mitra, M., Jones, G.* **Representing Documents and Queries as Sets of Word Embedded Vectors for Information Retrieval**. *NeuralIR - SIGIR'16 Workshop.*

***Roy, D.**, Paul, D., Garain, U., Mitra, M.* **Using Word Embeddings for Automatic Query Expansion**. *NeuralIR - SIGIR'16 Workshop.*

***Roy, D.**, Ray, K., Mitra, M.* **From a 'Scholarly Big Dataset' to a Test Collection for Bibliographic Citation Recommendation**. *Scholarly Big Data - AAAI'16 Workshop.*

*Ganguly, D., **Roy, D.**, Mitra, M., Jones, G.* **Word Embedding based Generalized Language Model for Information Retrieval**. *SIGIR-2015.*

*Bandyopadhyay, A., **Roy, D.**, Mitra, M., Saha, S.* **Named Entity Recognition from Tweets**. *LWA 2014.*

***Roy, D.**, Bandyopadhyay, A., Mitra, M.* **A Simple Context Dependent Suggestion System**. *TREC 2013.*

*Sing, J.K., **Roy, D.**, Basu, D.K., Nasipuri, M.* **Generalized Diagonal 2D FLDA for Efficient Face Recognition**. *CODIS-2012.* (Master's thesis)

Public Presentations

- **Introduction to HDFS and MapReduce:** Presented at:
  - Ramakrishna Mission Vivekananda University
  - Indian Statistical Institute, CVPR Departmental Colloquium
  - Department of Computer Science, Jadavpur University

Reviewing

- 40th International ACM SIGIR Conference on Research and Development in Information Retrieval: Secondary Reviewer

- 7th Forum for Information Retrieval Evaluation (FIRE 2015): Primary Reviewer

- Fourth International Conference on Emerging Applications of Information Technology (EAIT 2014): Secondary Reviewer

- 25th International Conference on Computational Linguistics (COLING 2014): Secondary Reviewer

- 6th Forum for Information Retrieval Evaluation (FIRE 2014): Primary Reviewer

Academic Visits

- 2015 May - June **Dublin City University, Dublin Ireland**: Visiting Scholar

- 2016 October - November **Dublin City University, Dublin Ireland**: Visiting Researcher

Academic Achievements

- **Received Google Research Travel Grant** to attend CIKM 2016 in Indianapolis, USA.

- **Received Microsoft Research Travel Grant** to attend CIKM 2016 in Indianapolis, USA.

- **Received ACM SIGIR Travel Grant** to attend CIKM 2016 in Indianapolis, USA.

- **Received ISI Travel Grant** to attend AAAI 2016 in Arizona, US.

- **Received ACM SIGIR Travel Grant** to attend SIGIR 2015 in Santiago, Chile.

- **Receiving ISI Senior Research Fellowship** from 2014 till date

- **Received ISI Junior Research Fellowship** from 2012 to 2014

- Qualified All India Research Fellowship examination organized by Indian Statistical Institute.

- Qualified in West Bengal Joint Entrance for Computer Applications, ranked among top 10.

- Stood first in B.Sc. Computer Applications in Calcutta University, 2006-2009 batch.

Teaching Experiences

- *Course Instructor* - **Data Structures II** - Fall 2016, 2015, 2014 - Ramakrishna Mission Vidyamandira, Belurmath

- *Teaching Assistant* - **Programming and Data Structures Lab** - Fall 2014 - Indian Statistical Institute, Kolkata

Academic project: 2

Title Construction of Statistical Language Modeling Tool

Description Building of a statistical language model supporting any human written language using n-gram strategy.

Role Implementation (Done as Bachelor's project)

Academic project: 1

Title A Study of Graph Coloring Problems

Description Study of existing graph-coloring algorithms and generation of a new algorithm

Role Algorithm design and implementation (Done as Bachelor's project)

Technical Skills Expertise

Languages **Expert:** C **Familiar:** C++, Java, Python, Script

Platforms **Expert:** Unix **Familiar:**Windows

Education

2009–2012 **Masters of Computer Applications**, *Jadavpur University*.
CGPA – 8.37

2006–2009 **Bachelor of Computer Applications(Major)**, *University of Calcutta*.
Percentage – 72.875

2006 **Higher Secondary(10+2)**, *W.B.C.H.S.E.*
Percentage – 69.2

2004 **Secondary(10)**, *W.B.B.S.E.*
Percentage – 76

Interests and Hobbies

Listening to music, playing guitar, playing chess, philately, traveling, photography.

References

- **Dr. Mandar Mitra** Associate Professor, Indian Statistical Institute, Kolkata, India

- **Dr. Gareth Jones** Professor, Dublin City University, Dublin, Ireland

- **Dr. Debasis Ganguly** Researcher, IBM Research, Dublin, Ireland