Abhishek Kumar

PERSON INFORMATION

DOB: 25 December 1993
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AREA OF INTERESTS

Statistical Machine Learning: Theory & Applications in Finance & Recommender System, Sponsored-Search Auctions, Algorithmic Mechanism Design, Data Mining/Big Data

EDUCATION

Ph.D. in Information Technology & Systems, Indian Institute of Technology Delhi (IIT Delhi)	Starting from Jan 2016
M.S. in Knowledge Service Engineering, 90.44/100 Korea Advanced Institute of Science & Technology (KAIST), South Korea *Adviser: Professor Aviv Segev*	Sept 2014 – Aug 2016
B.Tech. in Computer Science & Engineering*, 8.81/10	2010 - 2014
4th year Handong Global University, Pohang, South Korea (Student Exchange Program)	2013 - 2014
1st year – 3rd year National Institute of Technology Patna (NIT Patna), India *(Rank 2 in class of 56 students)*	2010 - 2013
All India Senior School Certificate Examination (12th CBSE), 73.6% Sri Guru Teg Bahadur Public School, Patiala, Punjab	2010
All India Secondary School Examination (10th CBSE), 92.8% Saraswati Vidya Mandir, Bettiah, Bihar	2008

*Final degree conferred from NIT Patna

AWARDS & HONOURS

KAIST Graduate Scholarship	Sept 2014 – Jun 2016
Handong Cornerstone Scholarship	Mar 2014 – Jun 2014
NIIED Scholarship by Korean Government	Sept 2013 – Dec 2013
2nd Prize, Algo-Z-Ripper (Algorithm Design) CORONA (Annual Technical Festival of NIT Patna)	2012
3rd Prize, TechQuiddich (Digital Circuit Design) CORONA (Annual Technical Festival of NIT Patna)	2011

SPONSORED RESEARCH PROJECTS

Development of Exobrain Software, Wise Knowledge Base	Mar 2015 – Feb 2016

Research Topic: Trust Validation of Knowledge using Web
Principle Investigator: Prof. Aviv Segev
(Funded by the Ministry of Science, ICT and Future Planning and Korea Evaluation Institute of Industrial Technology)
Key Areas: Natural Language Processing, Ontology, Artificial Intelligence

Personalized E-learning Recommender Systems based on Knowledge Structures
Research Topic: Development of an e-learning system utilizing knowledge structures created from documents studied by users.   Sept 2014 – Nov 2014
Principle Investigator: Prof. Mun Yong Yi
(Funded by the Korean National Research Foundation)
Key Areas: Ontology, Data Mining, Artificial Intelligence

NON-SPONSORED RESEARCH PROJECTS

Detection and Analysis of Psoriasis disease using Image Mining *(manuscript under preparation for submission into a journal specialized for Image Processing)*
Key Areas: Image Processing

Continuous space navigation with multiple task steps through Reinforcement learning with a Recurrent Neural Network
Key Areas: Motion Planning, Neural Network, Reinforcement Learning

Behavior Mechanism Design: Risk Aversion vs. Risk Neutrality in Crowdsourcing Contest
Key Areas: Mechanism Design, Crowdsourcing Contests

COMPUTER SKILLS

Programming Languages: C, C++, Java, Python, Scala
Statistical Analysis & Machine Learning Software: R, Weka
Other: MATLAB, SQL, Android, Hadoop, MS Office, Xilinx ISE

PUBLICATION

Hyun-Gook Kang, Won-Jun Nah, Abhishek Kumar, Hyun-Seok Yang, Jae-Gil Lee, **"Prediction of Changes in Communities By utilizing Time Series Analysis"** In Proceedings of Korea Computer Congress 2015, 25/06, 2015
Key Areas: Social Network, Data Mining

Abhishek Kumar, **"Bayesian ensembled Mean-Median Reversion based Strategy for On-line Portfolio Selection"** Master Thesis, KAIST, 2016
Key Areas: Machine Learning

OTHER ACADEMIC & PROFESSIONAL ACTIVITIES

Visiting Student   Aug 2015 – Dec 2015
Cognitive Neuro-Robotics Lab, Electrical Engineering, KAIST

Teaching Assistant   Spring 2014
Statistics for Economics and Management

Summer Trainee   June 2013 – July 2013
LinuxWorld Pvt. Ltd., India

Event Organizer, CORONA,   2013
Division: Computer Science & Information Technology, NIT Patna

Training and Placement Coordinator   Jan 2013 – Aug 2013

Department of Computer Science & Engineering, NIT Patna

Summer Trainee   May 2012 – July 2012
Nettech Pvt. Ltd. India

Summer Trainee   April 2011 – May 2011
Brics, Indian Institute of Technology Kanpur

RELEVANT COURSES TAKEN

Data Mining, Analytical Methodologies for Big Data, Knowledge Engineering & Intelligent Decision Making, Business Intelligence, Mobile & Pervasive Computing for Knowledge Services

REFERENCES

Prof. Aviv Segev   Prof. Mun Yong Yi
Associate Professor   Full Professor & Department Chair
Email: aviv@kaist.edu   Email: munyi@kaist.ac.kr
Homepage: http://kse1.kaist.ac.kr/~aviv/ Homepage: http://kirc.kaist.ac.kr/people_director.php