

Abhishek Kumar

PERSON INFORMATION

DOB: 25 December 1993
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AREA OF INTERESTS

Current: Algorithms, Artificial Intelligence, Machine Learning, Image Processing
Past: Social Network, Natural Language Processing

EDUCATION

Ph.D. in Management Studies, <i>Specialization in Quantitative & Computational Finance</i> Indian Institute of Technology Delhi (IIT Delhi) <i>Adviser: Professor Aviv Segev</i>	Jan 2016 – Present
M.S. in Knowledge Service Engineering, 90.44/100 Korea Advanced Institute of Science & Technology (KAIST), South Korea <i>Adviser: Professor Aviv Segev</i>	Sept 2014 – Aug 2016
B.Tech. in Computer Science & Engineering*, 8.81/10 4 th year Handong Global University, Pohang, South Korea (Student Exchange Program)	2010 - 2014 2013 - 2014
1 st year – 3 rd year National Institute of Technology Patna (NIT Patna), India (<i>Rank 2 in class of 56 students</i>)	2010 - 2013
All India Senior School Certificate Examination (12 th CBSE), 73.6% Sri Guru Teg Bahadur Public School, Patiala, Punjab	2010
All India Secondary School Examination (10 th 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
2 nd Prize, Algo-Z-Ripper (Algorithm Design) CORONA (Annual Technical Festival of NIT Patna)	2012
3 rd 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)

Keywords: 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)

Keywords: 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*)

Keywords: Image Processing

Continuous space navigation with multiple task steps through Reinforcement learning with a Recurrent Neural Network

Keywords: Motion Planning, Neural Network, Reinforcement Learning

Behavior Mechanism Design: Risk Aversion vs. Risk Neutrality in Crowdsourcing Contest

Keywords: Mechanism Design, Crowdsourcing Contests

Autonomous mobile robot in maze environment

Keywords: Motion Planning, Neural Network

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, Jae-Gil Lee, “**Prediction of Changes in Communities by Utilizing Time Series Forecasting Models**” In Proceedings of Korea Computer Congress 2015, 25/06, 2015

Keywords: Social Network, Data Mining

Abhishek Kumar, “**Bayesian ensembled Mean-Median Reversion based Strategy for On-line Portfolio Selection**” Master Thesis, KAIST, 2016

Keywords: 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

Intern

June 2013 – July 2013

LinuxWorld Pvt. Ltd., India

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

2013

Training and Placement Coordinator
Department of Computer Science & Engineering, NIT Patna

Jan 2013 – Aug 2013

Summer Trainee
Nettech Pvt. Ltd. India

May 2012 – July 2012

Summer Trainee
Brics, Indian Institute of Technology Kanpur

April 2011 – May 2011

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
Associate Professor
Email: aviv@kaist.edu
Homepage: <http://kse1.kaist.ac.kr/~aviv/>

Prof. Mun Yong Yi
Full Professor & Department Chair
Email: munyi@kaist.ac.kr
Homepage: http://kirc.kaist.ac.kr/people_director.php