Vivek Singh Baghel

Research Scholar,

Discipline of Computer Science and Engineering,

Indian Institute of Technology Indore, Indore-453552, India.

Mob.: +91-9407848428

Email: phd1801201005@iiti.ac.in

Web-page: http://people.iiti.ac.in/phd1801201005/



Education

Indian Institute of Technology Indore

PhD (Computer Science and Engineering)

- Research Area: Biometric Security, Computer Vision

- Current CGPA: 8.88

University of Hyderabad

M.Tech(Information Technology)

Aggregate CGPA: 8.92

- Thesis Title: Multiple Team Formation Problem using Sociometry and Evolutionary Approach

UIT-RGPV Bhopal, MP, India

B.E.(Computer Science and Engineering)

Aggregate CGPA: 7.25

- Project Title: Healthcare system using Cloud Computing

Saraswati Hr. Sec. School

Higher Secondary Examination

- Percentage: 88%

Saraswati Hr. Sec. School

High School Examination

- Percentage: 81.8%

Ongoing, Dec-2018 onwards

Indore, MP, India

Hyderabad, Telangana, India

2011 - 2015

2016 - 2018

Seoni, MP, India 2009 - 2010

Seoni, MP, India

2007 - 2008

Research Interests

Currently, I am working in the area of Biometric Security under the guidance of Dr. Surya Prakash (Associate Professor & Head, CSE, IIT Indore, India). My broad research interest includes Biometrics, Computer Vision, Image Processing, Machine Learning, and Deep Learning.

Publications

- [1] Vivek Singh Baghel, Syed Sadaf Ali, and Surya Prakash, "An Approach Based on Non-invertible Transformation to Protect a Fingerprint Template," ACM Transactions on Multimedia Computing, Communications, and Applications (under preparation).
- [2] Syed Sadaf Ali, Vivek Singh Baghel, and Surya Prakash, "Robust Biometric Authentication System with a Secure User Template," Image and Vision Computing (Submission id-IMAVIS-D-20-00013, Submitted on 13th Jan 2019-under review).

- [3] Syed Sadaf Ali, Surya Prakash, Iyyakutti Iyappan Ganapathi, **Vivek Singh Baghel**, Pooja Consul, and Sajid Mahyo, "A Novel Technique for Fingerprint Based Secure User Authentication," *ACM Transactions on Internet Technology* (Submission id-TOIT-2019-0190, Submitted on 28th Nov 2019-under review).
- [4] Vivek Singh Baghel, Akhilesh Mohan Srivastava, Surya Prakash, and Siddharth Singh, "Minutiae Points Extraction using Faster R-CNN," 7th International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2019), December 20-21, 2019, IIIT Kalyani, West Bengal, India. (Accepted)
- [5] **Vivek Singh Baghel** and S. Durga Bhavani, "Multiple Team Formation Using an Evolutionary Approach," In *Proc. 2018 Eleventh International Conference on Contemporary Computing (IC3)*, Noida, 2018, pp. 1-6.

Projects

- M.Tech. Thesis Title: Multiple Team Formation Problem using Sociometry and Evolutionary Approach
 - Problem Statement: Finding teams of experts from a given set of people (who are belong to some skills and a person can be available in single or multiple skill-sets) for execution of multiple tasks or projects according to the given skills requirement of different projects or tasks, in such a way that the positive relationship between each individual in a team should be maximized and also the global efficiency of all assignment should be maximized.
 - Proposed solution is based on Genetic Algorithm and for calculating the fitness or global efficiency Sociometry is used.
- B.E. Major Project Title: **Healthcare System using Cloud Computing**
 - Developing a online platform for hospital using Web Technology and Cloud computing.
- B.E. Minor Project Title: Digital Watermarking
 - Hiding a text message behind an image for security of text message, using C language.

Technical Skills

- Technical Subjects
 - Data-Structures, Algorithms, Operating Systems, Computer Vision, Machine Learning
- Programming languages

Languages: C/C++, PythonPackages: MATLAB, LATEX

Achievements

- Currently, in PhD programme, I am receiving fellowship from MHRD (as a Teaching Assistant).
- Received fellowship from MHRD during M.Tech. Programme (July 2016 June 2018).
- NET-2017 Qualified for Assistant Professor.
- GATE-2018 Qualified with score 421.

• GATE-2016 Qualified with score 437.

Teaching Assistantship

- Jan 2020-ongoing: Computer Vision (During PhD)
- July 2019-Nov 2019: Machine Learning (During PhD)
- Jan 2019-April 2019: Embedded Systems (During PhD)
- July 2017-Nov 2017: SCILAB (During M.Tech.)
- Jan 2018-April 2018: Social network analysis (During M.Tech.)

Personal Information

Name: Vivek Singh Baghel

Father's name:

Mother's name:

Mrs. Pushpa Baghel

Date of Birth:

29 August, 1992

Gender: Male

Present Address: Amrit Sagar, near IIT Indore campus, Simrol, Indore-452020, MP, India.

References

• Dr. Surya Prakash

Associate Professor and Head, CSE, IIT Indore Email-id: surya@iiti.ac.in

• Dr. Puneet Gupta

Assistant Professor, CSE, IIT Indore Email-id: puneet@iiti.ac.in

• Dr. S. Durga Bhavani

Associate Professor, SCIS UoH Email-id: sdbcs@uohyd.ernet.in

Declaration

I hereby declare that all the information mentioned in my curriculum vitae is true and correct to my knowledge.

Date: 08/02/2020 Place: Indore, India

Vivek Singh Baghel