

RESUME

RESIDENTIAL ADDRESS

Dr. Parashuram Baraki

Professor & HOD

Department of Computer Science & Engineering

Hirasugar Institute of Technology

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OBJECTIVE

To be associated with a progressive organization that provides opportunity to contribute towards the growth of the organization and also to apply my knowledge and skills in accordance with the latest technologies.

EXPERIENCE [16 Years]

1. Working as **Professor & HOD** in HiraSugar Institute of Technology, Nidasoshi from **21st September 2017 to till date.**
2. Worked as **Assistant Professor** in GM Institute of Technology, Davanagere from **01.07.2016 to 30.06.2017.**
3. Worked as **Associate Professor** in Smt. Kamala & Sri Venkappa M Agadi college of Engineering and Technology (SKSVMACET), Lakshmeshwar from **01.01.2015 to 30.06.2016.**
4. Worked as **Assistant Professor** in GM Institute of Technology, Davanagere from **01.05.2007 to 19.11.2014.**
5. Worked as **Lecturer** in GM Institute of Technology, Davanagere from **01.09.2003 to 31.04.2007.**
6. Worked as **H.O.D** in S.G.R.K.S. College of Information Technology, Harihar from **01.08.2001 to 30.08.2003**

ACADEMIC PROFILE

| Course | Institution/University | Qualifying Year | Percentage | Results |
|--------------------------|---|-----------------|---------------------------|-------------------------------|
| Ph.D (CS&E) | Jain University Bangalore | 2017 | - | - |
| M. Tech (CS&E) | Bapuji Institute of Engg & Technology, Davanagere | 2007 | 77.20% (Gold Medalist) | First Class with Distinction. |
| BE (CS&E) | STJ Institute of Technology, Ranebennur | 2001 | 73.00 % | First Class with Distinction |

| | | | | |
|----------------|---------------------------------|------|--------|-------------|
| XII std | DRM Science College, Davangere. | 1997 | 68.16% | First Class |
| X std | M.K.T.High School Harihar | 1995 | 78.75% | First Class |

RESEARCH WORK

PhD Guide:

Dr. V. Ramaswamy, Professor and Head Department of Computer Science & Engineering, SRC Sastra University, Kumbakonam, Tamilnadu and Former Principal, Bapuji Institute of Technology, Davanagere, Karnataka.

A Brief Write Up of PhD Work

Title of work: Bio-Metric Authentication System: Innovative Approaches using Dynamic Gestures

Authentication is a process from which a valid user can access services from a system. Providing access to only authenticated persons to use the service is getting tougher nowadays because the intruders can collect information of the person and based on that they may break the security of the system. Security to a system can be provided using various methods. The types of security system are password based systems such as ATM machines, internet banking etc., physical based security systems such as RFID, Id cards etc. and biometric based systems such as iris recognition, face recognition etc. In password based security system, a user can get access to service if and only if the password matches accurately. Normally a user will set password based on his/her personal information such as birth place, favourite person, lucky number etc. If all these information are collected by an attacker then it is possible to easily bypass the security barrier. In a physical based security system, user will provide information using physical devices such as Bluetooth or any other approved cards but this also poses some kind of insecurity problem and these types of security can easily be stolen by an attacker. In biometric based systems, static information is used while accessing service from a system. There is a chance of stealing the stored database from the attacker. To overcome from these issues, we are attempting an alternate solution in biometric based system using dynamic gestures. The dynamic gestures include occluded faces, segmented faces, mouse patterns, hand gestures and online signatures. In 3D face occlusion, we can authenticate a person even though part of the face is occluded. Segmented part of the face such as eyes, nose and mouth feature are extracted using haar transform which provide higher degree of accuracy in face detection and recognition system. We can authenticate a user based on the dynamic mouse gesture which

includes mouse movement and pattern drawn by the user. Dynamic hand gesture authenticates a user using the gestures provided by him/her using an accelerometer. User will be authenticated based on axis, direction and angle of gestures drawn. In dynamic online signature, a user is authenticated based on speed of the signature drawn, pen angle, muscle movement etc. To enhance the level of security, we are combining two authentication systems such as dynamic hand gestures and online signature. User will have access to the system if and only if input of both systems are matched. The results of above modules are generated using MATLAB tool, Visual Studio and OpenCV C++. It is also proved that the approach provides the best results.

ACADEMIC PROJECTS UNDERTAKEN

1. Graphical Simulation of Data Structure
 2. Students Information through C.
 3. Data Compression.
 4. E-File Manager.
 5. G-Mail Notifier.
 6. Radio Frequency Identification (RFID).
 7. GPS Based Location Tracking System.
 8. Online data acquisition through mobile/system.
 9. i-Care Health Monitoring System.
 10. Smart Traffic Control System.
 11. Online Bus pass reservation system
 12. Graphical Based Security for Authentication
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PROFESSIONAL PROFILE

Subjects Handled:

1. Computer Concepts and C programming
2. Data Structure with C
3. Object Oriented Programming
4. Unix & Shell Programming
5. Discrete Mathematical Structure
6. Design and Analysis of Algorithm
7. Finite Automata & Formal Languages
8. Operating System
9. Computer Network
10. System Software
11. Compiler Design
12. Computer Graphics
13. Principal of Programming Languages
14. Data Compression
15. Object Oriented Modeling and Design
16. System Modeling and Simulation

TRAINING/WORKSHOP ATTENDED

| Sl. No | Name of training/workshop | Year/Duration | Organizers |
|--------|---|---|---|
| 1 | NBA-SAR Filling & Preparedness for Assessment | 15 th Sept to 17 th Sept 2017 | HIT, Nidasoshi |
| 2 | Outcome based education (OBE) & Outcome based accreditation (OBA) for NBA | 10 th & 11 th Feb 2017 | GMIT, Davanagere |
| 3 | LATEX | 22 nd & 23 rd July 2016 | GMIT, Davanagere |
| 4 | Accreditation Process for Technical Institutions | 26 th & 27 th August 2016 | JSSATE, Bengaluru |
| 5 | ARM Processor & Its application | 27 th Dec 2016 | GMIT, Davanagere |
| 6 | The magic of making teaching effective | 13 th & 14 th Feb 2016 | SKSVMACET, Lakshmeswara |
| 7 | Research Retreat | 2012/Two Days | Jain University, Bangalore |
| 8 | IBM Think-Explore Evolve(T2E) | 2011/One Day | IBM, India |
| 9 | Cloud Computing | 2010/One Day | VMWARE Software India Pvt. Ltd with CSI |
| 10 | Foundational Computer Science Courses- An Industry Perspective | 2005/15 Days | Infosys Technologies, Bhubaneswar |
| 11 | Power Linux Unleash the full Potentials of LINUX | 2004/15 Days | B.I.E.T Davanagere |

PAPERS PUBLISHED IN NATIONAL/INTERNATIONAL JOURNALS

1. Parashuram Baraki, Dr.V.Ramaswamy, "Biometric Authentication of a User using Online Dynamic Signature", published in **IEEE Xplore** on 27th April 2017, DOI: 10.1109/ICATCCT.2016.7912066
2. Parashuram Baraki, Dr.V.Ramaswamy, "Bio-Metric Authentication of an User using Hand Gesture Recognition", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 11, Number 6 (2016) pp 4118-4123 © Research India Publications. (**Scopus Indexed Journal**)
3. Parashuram Baraki, Dr.V.Ramaswamy, "Bio-Metric Authentication of a person using Dynamic Gesture", IJPT,Dec-2016,Vol. 8, Issue No.4, 23206-23212. ISSN: 0975-766X (**Scopus Indexed Journal**)

4. Parashuram Baraki, Dr.V.Ramaswamy, “Bio-Metric Authentication of a person using Face Segmentation Approach”, International Journal of Advanced Information Science and Technology (IJAIST) ISSN: 2319:2682 Vol.4, No.7, July 2015. DOI:10.15693/ijaist/2015.v4i7.77-82.
5. Parashuram Baraki, Dr.V.Ramaswamy, “3D Face Detection and Recognition under Occlusion”, (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 5 (6) , 2014, 7972-7976, ISSN: 0975-9646.
6. Parashuram Baraki, “An Innovative Approach to Authenticate a Person using Mouse Gesture Dynamics”, Bonfring International Journal of Software Engineering and Soft Computing, Vol. 6, Special Issue, October 2016, DOI:10.9756/BIJSESC.8271, ISSN 2277-5099.
7. Parashuram Baraki, “Color Image Segmentation By Clustering”, International Journal of Advanced Research in Computer Science & Technology (IJARCST 2014), ISSN : 2347 - 8446, Vol. 2 Issue 1, Jan-March 2014.
8. Parashuram Baraki, “Development of an Effective Online Bus Pass Generation System for Transportation Service in Karnataka State”, (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 6 (3) , 2015, 3115-3118, ISSN: 0975-9646.

Total No of papers published in International Journal: 08

National Journal: 02

Total No of papers presented in International Conferences: 05

National conferences: 03

OTHER INFORMATION

University level responsibilities handled:

1. Attended BOE's Meeting and Confidential work held at VTU Belgaum.
2. Worked as flying squad, External DCS(Theory), External examiner(Practical) and Valuator for VTU exam.

College level responsibilities handled:

1. Worked as Dean **Academic** for SKSVMACET from 01.09.2015 to 30.06.2016 and also acted as **chief coordinator for NBA work**.
2. Worked as **Dean Academic** for GMIT from 01.09.2013 to 19.11.2014.
3. Act as **Coordinator** for conducting two days National level technical fest at GMIT Davanagere in 2014.
4. Worked as **Staff Secretary** at GMIT for one year.
5. Worked as **Asst. Placement Officer** at GMIT for two years.

Department level responsibilities handled:

1. NBA coordinator
2. Workshop coordinator
3. ISO Coordinator
4. Project Coordinator
5. Time Table Coordinator
6. Academic Coordinator

STRENGTHS

- Self confidence
- Practical and positive thinking
- Dedication to committed work

ACHIEVEMENTS/AWARD

1. Secured “**GOLD MEDAL**” from Bapuji Institute of Engineering and Technology, Davangere for having consistent performance in all the semesters marks of Visveswaraya Technological University examination of M.Tech **in Computer Science & Engg.**
2. **Secured Best paper presentation award at National conference** held at SRC Kumbakonam Sastra University, TamilNadu on 25th March 2016.
3. **Secured IBM Excellence award for Best Project Guide in 2013.**
4. Recognized as Bronze level partner faculty in Infosys Campus connect programme for the year 2013.

PERSONAL INFORMATION

1. Date of Birth : 02.06.1979
2. Marital Status : Married
3. Father’s Name : Channabasappa Baraki
4. Languages Known : English, Kannada, & Hindi

EXTRA CURRICULUM ACTIVITIES

- Sports : Cricket, Shuttle & Throw-ball
- Hobbies : Listening to Music, Reading New Papers
- Other Information : Completed NCC ‘A’ Certificate.
Completed “Hindi Pandeeth”, Praveena Examination from Dakshina Bharat Hindi Prachar Sabha, Madras.

Dr. Parashuram Baraki