

**Venu Govindaraju**  
December 15, 2017



### 1. Educational history

PhD	University at Buffalo, State University of New York	1992
MS	University at Buffalo, State University of New York	1988
BTech	Indian Institute of Technology (IIT), Kharagpur	1986

### 2. Work Experience (University at Buffalo, State University of New York)

Vice President for Research	University at Buffalo	9/14 -
Clifford Furnas Chair Professor	University at Buffalo	3/14 -
SUNY Distinguished Professor- highest rank at	State University of New York (SUNY)	11/10 -
UB Distinguished Professor	University at Buffalo	1/09 -
Director	Center for Unified Biometrics and Sensors	9/03 -
Professor	Dept. of Computer Science & Engineering	8/02 -

### 3. Awards

- **National Academy of Inventors, Fellow**, 2016.
- **Honorary Fellow of the AP Academy of Sciences**, India, 2016.
- **IAPR/ ICDAR Outstanding Achievements Award**, 2015 “for pioneering contributions to pattern recognition and its application to the fields of handwriting recognition, multilingual document analysis, and biometrics; and for the development of real-time engineered systems.
- **IIT Kharagpur Distinguished Alumnus Award**, 2014
- **IEEE Technical Achievement Award**, 2010. “For pioneering contributions to handwriting systems” for sustained achievement over last 10-15 years.
- **MIT Global Indus Technovator Award** 2004, MIT Indian Business Club, Cambridge, MA: “For pioneering endeavors at the frontiers of technological innovation”.
- **40 Under Forty Honoree Business First**, Nov. 7, 2002, Buffalo, NY.
- **IAPR/ ICDAR Outstanding Young Investigator**, 2001 (IAPR) “For visibly demonstrating the utility of pattern recognition algorithms in complex applications of postal document handling and for outstanding scientific productivity”.

#### Conference Best Paper/Competition Awards

- IEEE WNY Image Processing, Student Best Paper Award, Rochester, NY2015.
- **NetMob**, D4D Senegal Challenge, National Statistics Prize, Cambridge, MA, 2015,
- **ICFHR, ITESOFT Best Paper Award**, Kolkata, India, 2010
- **ICPR, IBM Best Student Paper Award**, (X. Peng), Istanbul, Turkey, 2010.
- **ICDAR Best Paper Award**, Barcelona, 2009.
- **ICDAR 1<sup>st</sup> Place in Line segmentation competition**, Barcelona, 2009.

#### Industry Faculty Research Awards

- **Qualcom Faculty Research Award**, 2014
- **eBay Faculty Research Award** 2012.
- **Fujitsu Research Award** 2011, 2013.
- **HP Open Innovation Award** 2008, 2009, 2010.
- **Google Faculty Award** 2005, 2011.
- **IBM Faculty Award** 2003-04.

#### 4. Honors

- **Fellow of SPIE** – Int. Society for Optics and Photonics, 2013, “For document recognition and retrieval”.
- **Fellow of AAAS** – American Association for the Advancement of Science, 2010, “For outstanding contributions to the areas of biometrics and document recognition and retrieval”.
- **Fellow of ACM** – Association of Computing Machinery, 2009, “For contributions to handwritten document image analysis, recognition, and retrieval”.
- **Fellow of IEEE** - Institute of Electrical and Electronics Engineers, 2006, “For contributions to handwriting recognition”.
- **Fellow of IAPR** – Int. Association of Pattern Recognition, 2004, “For contributions to advances in handwriting recognition”.
- **Fellow of IETE** – Institute of Electronics and Telecommunication Engineers, 2002.

#### 5. Research Impact

- Computing Community Consortium (<http://www.cra.org/ccc/>), March 25, 2009 - Computing Research that Changed the World: Reflections and Perspectives, “...Using a learning-based system developed at SUNY Buffalo by Venu Govindaraju and colleagues, 25 billion letters a year are processed automatically by the US postal service - bar-coded for precise deliver - saving hundreds of millions of dollars...”
- Transferred technology to the Postal Services in US, Australia, and UK which was deployed.
- Supervised the dissertations of 35 doctoral and 15 masters students as their major advisor.
- Principal or Co-Investigator of sponsored projects funded for about 65 million dollars.
- Total scientific publications: 450 (82 journal papers; 22 book chapters); Edited books: 5
- Total citations is 12,000; h-index is 52; DBLP count of 300 (among most prolific authors)
- Research reported by BBC Radio April 2012; Scientific American, March 2012; ACM TechNews – October 2010, September 2007, January 2005; MIT Tech Review, January 2009, October 2009.

#### 6. Professional Service Highlights

- President, IEEE Biometrics Council (2015-17)
- Editor-in-Chief, IEEE Biometrics Council Compendium (2012-16)
- Editorial board of IEEE Access (2015-), IEEE Transactions of Information and Forensics Security (2015 -), International Journal of Document Analysis and Recognition (2003-), IET Biometrics Identification (2012-), IEEE Transactions of Pattern Analysis and Machine Intelligence (2001-2005), IEEE Systems, Man, and Cybernetics (2000-2008), Pattern Analysis and Applications (2004-2008), and Pattern Recognition Journal (1997-2005).
- General Co-Chair of IAPR International Conference on Document Analysis and Recognition (2013), Multilingual OCR Workshop (2015, 13, 11, 09), International Workshop on Document Analysis Systems (2010), 4<sup>th</sup> IEEE AutoID (2004).
- General Program Co-chair of IAPR International Conference on Document Analysis and Recognition (2005), CVPR Biometrics workshop (2006-12)
- Program Committee member of over 70 conferences and workshops
- Given over 150 invited talks including over 25 keynotes and over 25 colloquium talks

#### 7. Patents

- US 20060078171: “Biometric Convolution Using Multiple Biometrics”, V. Govindaraju, S. Chikkerur, and S. Chavan. 2010.
- US 7,580,551. “Method and Apparatus for Analyzing And/Or Comparing Handwritten And/Or Biometric Samples”, S. Srihari, V. Govindaraju, et. al. 2009.
- WO/2008/121183. “Method for Diagnosis of Physiological States by Detecting Patterns of Volatile Analytes”, F. Bright, A. Cartwright, V. Govindaraju, H. Wesley, and A. Titus. 2008.
- US 5,515,455: “System for Recognizing Handwritten Words of Cursive Script”, V. Govindaraju, D. Wang, and S. Srihari. 1996.