



## Dr. Ram Prasad K, Ph.D

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Founder & Director

*VisionCog Research & Development Pvt. Ltd.*

*Thiruvananthapuram, Kerala, India.*

### SUMMARY

My expertise is in the areas of classical machine learning, deep learning, computer vision, biometrics, software developments and algorithm design. I obtained the prestigious European Union Marie Curie Fellowship twice, for my doctoral research work at Universidad Autonoma de Madrid, Spain, and also for postdoctoral research work at Dublin City University, Ireland, respectively. My PhD work got nominated for the prestigious European Biometrics Research and Industry Award. I have collaborated with both research industries and academic labs in Europe and India through technology transfer, and as a researcher. Currently, I am the director of VisionCog R&D, and manage commercial research and development works in the domain of computer vision and biometrics.

### EDUCATION / ACADEMIC WORKS

**Dublin City University, Ireland**

Postdoctoral Researcher (Marie Curie Fellow)

Sep 2015 - August 2017

**Universidad Autónoma de Madrid, Spain**

*Ph.D in Computer Science (Marie Curie Fellow)*

*with distinctions “Sobresaliente Cum Laude”*

*and “International Doctor”*

May 2011 - June 2015

**Halmstad University, Sweden**

Visiting Researcher

Sep 2013 - Dec 2013

**University of Twente, The Netherlands**

Visiting Researcher

Sep 2012 - Dec 2012

**Chennai Mathematical Institute, India**

*Master of Science in Computer Science*

Aug 2006 - June 2008

### PROFESSIONAL WORKS

**VisionCog R&D Pvt. Ltd, Thiruvananthapuram, India**

*Founder & Director*

September 2018 - present

**OptiPace Technologies, Bangalore, India**

Senior Consultant

January 2018 - present

**Higher Education Department, Govt of Kerala**

Content Developer and Trainer for Artificial Intelligence

January 2019 - January 2020

**Universidad Autónoma de Madrid, Spain**

Marie Curie Research Fellow

Technical Staff

May 2011 - Dec 2013

Jan 2014 - July 2015

**Geodesic Limited, Bangalore, India**

Software Engineer

July 2008 - Mar 2011



## PUBLICATIONS

### Ph.D Thesis

1. R. P. Krish, Fingerprint Recognition for Forensic Applications, Universidad Autónoma de Madrid, 2015.

### Book Chapters

2. Ramos, D., Krish, R. P., Fierrez, J., Didier, M., “From Biometric Scores to Forensic Likelihood Ratios”, Chapter 14, Handbook of Biometrics for Forensic Science, Springer International Publishing AG, Tistarely and Champod Eds, 2017.

### Journals

3. “A Novel Feature Extraction Scheme for Classification of Iron Deposition in Brain MRI” (under submission).
4. "Ensemble Learning based Classification on Local Patches from Magnetic Resonance Images to detect Iron depositions in Brain", (Accepted) *International Journal of Bio-Inspired Computing*, 2020
5. Krish, R. P., Fierrez, J., Ramos, D., & Gomez-Herrero, F., “Improving Automated Latent Fingerprint Identification using Extended Minutiae Types”, *Information Fusion, Elsevier*, 2018.
6. Krish, R. P., Fierrez, J., Ramos, D., Ortega-Garcia, J., & Bigun, J., “Pre-registration of latent fingerprints based on orientation field”, *IET Biometrics*, 4(2), 2015.
7. Martinez-Diaz, M., Fierrez, J., Krish, R. P., & Galbally, J., “Mobile signature verification: feature robustness and performance comparison”, *IET Biometrics*, 3(4), 2014.

### Conferences

8. Krish, R. P., Whelan, P. F., “Visual Speech Encoding based on Facial Landmark Registration”, Irish Machine Vision and Image Processing (IMVIP), Galway, 2016.
9. Krish, R. P., Fierrez, J., & Ramos, D., “Integrating rare minutiae in generic fingerprint matchers for forensics”, *IEEE International Workshop on Information Forensics and Security (WIFS)*, 2015.
10. Krish, R. P., Fierrez, J., Ramos, D., Ortega-Garcia, J., & Bigun, J., “Pre-registration for improved latent fingerprint identification”, *IEEE 22nd International Conference on Pattern Recognition (ICPR)*, 2014.
11. Krish, R. P., Fierrez, J., Ramos, D., Ortega-Garcia, J., & Bigun, J., “Partial fingerprint registration for forensics using minutiae-generated orientation fields”, *IEEE International Workshop on Biometrics and Forensics (IWBF)*, 2014.
12. Krish, R. P., Fierrez, J., Ramos, D., Veldhuis, R., & Wang, R., “Evaluation of AFIS-Ranked latent fingerprint matched templates”, *Image and Video Technology*, Springer Berlin Heidelberg, 2013.
13. Krish, R. P., Fierrez, J., Ramos, D., & Wang, R., “Towards Quantification of the Weight of Evidence with Partial Fingermarks on Real Forensic Casework”, *Biometric Technologies in Forensic Science, BBfor2 Conference*, 14-15 October 2013, Nijmegen, The Netherlands, 2013



14. Krish, R. P., Fierrez, J., Galbally, J., & Martinez-Diaz, M., “Dynamic signature verification on smartphones”, In *Highlights on Practical Applications of Agents and Multi-Agent Systems*, Springer Berlin Heidelberg, 2013.
15. Krish, R. P., Fierrez, J., Ramos, D., & Wang, R., “On the importance of rare features in AFIS-ranked latent fingerprint matched templates”, *IEEE 47th International Carnahan Conference on Security Technology (ICCST)*, 2013.
16. Wang, R., Ramos, D., Fierrez, J., & Krish, R. P., “Towards regional fusion for high-resolution palmprint recognition”, *IEEE 26th SIBGRAP-Conference on Graphics, Patterns and Images (SIBGRAP)*, 2013