B Ravi Kiran, Technical Lead, ML

French, 30 Aug 1986,
79 Rue Brillat Savarin, Bat. E, Paris 75013
+33 7831 49467   beedotkiran.github.io/   beedotkiran@gmail.com

Skills

Programming	Python, C++, C, Matlab, Git/SVN, Latex/Beamer
Packages	RTMaps, Pandas, Scikit-learn, Scikit-image, OpenCV, Tensorflow, Keras
Strengths	Image processing, Machine learning, Deep learning, Graph theory, Mathematical morphology
Languages	English(Professional), French(Fluent, TCF-ANF), Tamil(Maternal), Kannada, Hindi(Fluent).
Domains	Video representation, time series analysis, hyperspectral imaging, image segmentation.
Reviewer	CIARP 2012, ISMM 2013, PR Letters 2013, ICIP 2014, ISMM 2015, PR Letters 2015, PR Letters 2016, ITSC 2016, MSSP 2017, ICVES 2017, IROS 2017, TIP 2017, NIPS2017 LLD.

Experience   LinkedIn

Oct 2018 – Now	**Technical lead, Machine Learning Team, NavyaLabs**, *Paris area, France.* Computer vision, ML/DL/RL for autonomous driving
Jan 2018 – Oct 2018	**R&D Engineer, AKKA Technologies**, *Paris area, France.* Computer vision, ML/DL/RL for autonomous driving
Mai 2017 - Nov 2017	**Deep learning and computer vision consultant, Uncanny Vision**, *Paris(remote).* Deep representation learning for unsupervised anomaly detection in videos
Oct 2016 - Aug 2017	**Teaching assistant & Researcher(ATER), Université Lille 3**, *Lille.* Teaching machine learning & advanced data mining
Dec 2015 - Nov 2016	**Post-doc Data lab, ENS Paris and ThalesAlenia Space**, *Paris.* Streaming multiscale anomaly detection & predictive models for anomaly detection(AD)
Nov 2014 - Nov 2015	**Post-doc Centre de robotique(CAOR) HELICoiD, Mines ParisTech**, *Paris.* Real-time classification of hyper-spectral images(HSI) for surgical inter-operative aid & tumor detection
Oct 2011- Oct 2014	**PhD at A3SI-LIGM UMR 8049, ESIEE**, *Paris.* *Energetic-Lattice based optimization* Director Jean Serra
2010	**Research Assistant, Computer Vision, AI Lab, IISc**, *Bangalore.* Roads/lanes segmentation for autonomous cars & compressed domain H.264 motion detection
2008	**Software Design Engineer, Texas Instruments**, *Bangalore.* Embedded systems and programming on ARM and DSP

Education

2011–2014	**PhD in Computer Science, Université Paris-Est Marne-la-Vallée**, *Paris, France.* Best thesis from Université Paris-Est 2015 in Mathematics et STIC
2004–2008	**B.E. Electronics & Communication, VTU, Bangalore**.

Selected publications   Scholar

2019	**Exploring applications of deep RL for real-world AD systems**, *VISAPP 2019.*
2018	**An overview of deep learning based methods for unsupervised and semi-supervised anomaly detection in videos**, *Journal Imaging MDPI 2018.*
2017	**Multi-scale streaming anomalies detection for time series**, *CAp 2017.*
2016	**Unsupervised clustering of HSI of brain tissues by H2NMF**, *BIOIMAGING 2016.*
2014	**Global-local optimizations by hierarchical cuts**, *Pattern Recognition 2014.*