

Dr. Yawar Rehman

Email: reh.yawar2@gmail.com

Education

- PhD (Electronics and Communication Engineering)
Hanyang University, Republic of Korea (2014 - 2017)
- M.S. (Electronics and Communication Engineering)
Hanyang University, Republic of Korea (2012 - 2014)
- M.S. (Telecommunication Engineering)
Hamdard University, Karachi, Pakistan (2009 – 2011)
- B.E. (Electronics Engineering)
Mehran University of Engineering & Technology, Karachi, Pakistan (2004 – 2008)

Area of Specialization

Computer vision; Feature extraction; Object detection; Image Processing; Occlusion handling; Machine learning; Pattern Recognition

Awards and Honors

- *Research Grant* of PKR. 0.416 Million by Higher Education Commission (Pakistan) under SRGP grant, 2019.
- *Research Grant* of PKR. 6.1 Million by Higher Education Commission (Pakistan) under NRPU-2017 grant, 2018.
- *Session Chair* at International Conference on Emerging Trends in Telecommunication & Electronic Engineering for the Session on Signal Processing, NEDUET, 2018.
- *Best Research Paper Award*, Conference on Patterns, France, 2015.
- *MS leading to PhD Scholarship* by Higher Education Commission (Pakistan) to Hanyang University, Republic of Korea, 2012.
- *Travel Grant* from Higher Education Commission (Pakistan) to Malaysia for Paper Presentation in IEEE Symposium on Industrial Electronics & Applications – ISIEA 2011.

Professional Experience

- **Place:** NED University of Engineering & Technology, Karachi
- **Designation:** Assistant Professor
- **Duration:** Oct 2017 – Present
- **Courses Being Taught in Undergraduate (Spring 2018):** Electronics; Digital Image Processing
- **Course Taught in Masters Program (Fall 2017):** Fuzzy Logic and Electronics Control Systems
- **Course Being Taught in Masters Program (Spring 2018):** Fuzzy Logic and Electronics Control Systems

- **Place:** NED University of Engineering & Technology, Karachi
- **Designation:** Lecturer
- **Duration:** Dec 2009 – Sep 2017
- **Courses Taught (Undergraduate):** Electronics; Power Electronics

- **Place:** Faculty of Engineering Sciences & Technology (FEST), Hamdard University, Karachi
- **Designation:** Lab Engineer/ Jr. Lecturer
- **Duration:** 1.4 Years (Sep 2008 – Dec 2009)
- **Courses Taught (Undergraduate):** Measurement & Instruments; Control System-I

Publications

Journal

- **Y. Rehman**, J. Khan, and H. Shin: “Efficient coarser-to-fine holistic traffic sign detection for occlusion handling”, *IET Image Processing*, 2018. **(SCI)**
- **Y. Rehman**, I. Riaz, X. Fan, and H. Shin: “D-patches: effective traffic sign detection with occlusion handling”, *IET Computer Vision*, 11 (5), 2017. **(SCI)**
- X. Fan, I. Riaz, **Y. Rehman**, and H. Shin: “Vanishing point detection using random forest and patch-wise weighted soft voting”, *IET Image Processing*, 10 (11), 2016. **(SCI)**
- Riaz, T. Yu, **Y. Rehman**, and H. Shin: “Single image dehazing via reliability guided fusion”, *Elsevier Journal of Visual Communication and Image Representation*, 40(A), 2016. **(SCIE)**
- **Y. Rehman**, I. Riaz, F. Xue, Park, J. Khan and H. Shin: “Pedestrian detection with cascaded part model for occlusion handling”, *International Journal on Advances in Intelligent Systems*, pp: 426-436, December 2015.

Conference

- **Y. Rehman**, J. Khan, I. Riaz, and H. Shin: “Chunks: The remedy for notorious false alarms in pedestrian detection”, *IEEE ICEIC*, 2016.
- **Y. Rehman**, I. Riaz, X. Fan, Piao, J. J. Khan, and H. Shin: “Pedestrian detection with occlusion handling”, *Patterns*, 2015. **(Best paper award)**
- X. Fan, C. Deng, **Y. Rehman**, and H. Shin: “Fast road vanishing point detection based on modified adaptive soft voting”, *Patterns*, 2015.
- **Y. Rehman**, G. B. Narejo and S. Zaidi: “An experiment for testing efficiency of effective teaching model and comprehensive use of limited resources”, *Proceedings of IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE)*, 2012.
- **Y. Rehman** and F. Azim: “Comparison of different artificial neural networks for brain tumor classification via magnetic resonance images”, *UKSim 14th IEEE International Conference on Mathematical/Analytical Modelling and Computer Simulation, Cambridge University, England*, 2012.

Undergraduate Theses Supervised

- Finger Movement Detection via Image Processing to Substitute Pointing Devices
- Comparison of PCA, LDA & ICA for the Application of Face Expression Recognition

References

References will be provided on request.