Mohammad K. Ebrahimpour

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Research Interests

Machine Learning	Deep Learning	Convolutional Neural Network	Soft Computing
Statistical Pattern Recognition	Computer Vision	Feature Selection	Neural Networks
Object Localization	Dimensionality Reduction	Ensemble Learning	Autoencoders

Education

- **University of California** — Merced, CA
  PhD of Electrical Engineering and Computer Science — *Aug. 2016 – Exp: May 2020*
- **Shahid Bahonar University of Kerman** — Kerman, Iran
  MSc of Artificial Intelligence — *Sep. 2013 – Dec. 2015*
- **Shahid Bahonar University of Kerman** — Kerman, Iran
  BSc of Computer Engineering — *Sep. 2008 – Dec. 2013*

Publications

- **Object Localization**
  - M.K. Ebrahimpour, D.C. Noelle,Ultra-fast object localization, Computer Vision and Pattern Recognition (submitted) , (2018).
- **Optimization**
  - M.K. Ebrahimpour, H.Nezamabadi-pour, M.Eftekhari, CCFS: A Cooperation Coevolution Techniques for Large Scale Feature Selection on Microarray Datasets, Computational Biology and Chemistry (under review), (2017).
- **Dimensionality Reduction**
  - M. K. Ebrahimpour, H. Mirvaziri, and V. Sattari-Naeini, "Improving breast cancer classification by dimensional reduction on mammograms," Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, pp. 1-11, 2017.
- **Feature Selection**
  - M.K. Ebrahimpour, M. Eftekhari, MCMR: Maximum Consistency Minimum Redundancy for Microarray High-Dimensional Feature Selection, pattern recognition, (under review) (2017).
  - M.K. Ebrahimpour, M. Eftekhari,"Distributed feature selection: A hesitant fuzzy correlation concept for microarray high-dimensional datasets", Chemometrics and Intelligent Laboratory Systems, 2018.
  - M.K. Ebrahimpour, M. Eftekhari, Occams razor in dimension reduction: using reduced row Echelon form for finding linear independent features for high dimensional feature selection, Engineering Applications of Artificial Intelligence, 2017.
  - M.K. Ebrahimpour, M. Eftekhari, Ensemble of Feature Subset Selection Methods: A Hesitant Fuzzy Set Approach, Applied Soft Computing (2017).
  - M.K.Ebrahimpour, M.Eftekari, Feature Subset selection using Information Energy and correlation coefficients of hesitant fuzzy sets, International Conference on Information and Knowledge Technology (IKT), 2015 7th International Conference on, (IEEE2015).
  - M.K. Ebrahimpour, M. Eftekhari, Proposing a novel feature selection algorithm based on Hesitant Fuzzy Sets and correlation concepts, Artificial Intelligence and Signal Processing (AISP), 2015 International Symposium on, (IEEE2015), pp. 41-46.
- **Ensemble Learning**

- N.A. Abolkarlou, A.A. Niknafs, M.K. Ebrahimpour, Ensemble Imbalanced Classification: Using data preprocessing, clustering algorithm and genetic algorithm, Computer and Knowledge Engineering (ICCKE), 2014 4th International eConference on, (IEEE2014).
- N.afshari, M.K.Ebrahimpour, A.A. Niknafs, Improving the Ensemble classifiers based on clustering approaches and genetic algorithm, International conference on information Technology and Computer. (2014).Tehran, Iran.

- **Ontology Mapping**
  - I.Badrooh, M.K. Ebrahimpour, R.Beheshtinezhad, Utilizing an Optimization Method for Map Extraction on Ontology Alignments, Electerical Enginieering (ICEE), 18th Iranian Conference, (2010), In conference proceeding, In persian.

Teaching experiences

- **UC Merced** — Merced, CA
  TA-CSE 030 : Data Structures and Algorithms — *Fall 2017*
- **UC Merced** — Merced, CA
  TA CSE100: Algorithms Design and Analysis — *Fall 2016*
- **SBUK** — Kerman, Iran
  Lecturer: Mathematical Engineering — *Spring 2016*

Academia activities

- **Guest Speaker** — Kerman, Iran
  Guest Speaker in statistical pattern recognition course given by Dr.Nezamabadi-pour — *Fall 2017*
- **Referee**
  Referee in Computers in Biology and Medicine journal — *Fall 2016*
- **Referee**
  International journal of Bioinformatics and applications — *Fall 2016*
- **Lecturer** — Kerman, Iran
  Lecturer: Mathematical Engineering — *Spring 2016*
- **Senior member of OCR team** — Kerman, Iran
  Senior member of the OCR team lead by prof.Nezamabadipour — *Sep 2013 Dec 2015*

Programming skills

- **Programming languages:** **Python,Julia**,C++,C#
- **Mathematical Analysis:** Matlab and SIMULINK
- **Selected libraries in python:** **Tensorflow, scikit-learn**, numpy, scipy
- **Machine learning tools:** weka, KEEL
- **Documentation:** Latex

Honor and awards

- **Second ranked in the M.Sc.** program and selected as the Exceptional Talents of National Universities in Iran
- **First ranked in the B.Sc.** program and selected as the Exceptional Talents of National Universities in Iran.