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PUBLICATIONS

[1] Abdulaziz Alajaji, Walter Gerych, Luke Buquicchio, **Kavin Chandrasekaran**, Hamid Mansoor, Emmanuel Agu, and Elke Rundensteiner. "Domain Adaptation Methods for Lab-to-Field Human Context Recognition". In: *Sensors* 23.6 (2023), p. 3081.

[2] Abdulaziz Alajaji, Walter Gerych, Luke Buquicchio, **Kavin Chandrasekaran**, Hamid Mansoor, Emmanuel Agu, and Elke A Rundensteiner. "Smartphone health biomarkers: Positive unlabeled learning of in-the-wild contexts". In: *IEEE Pervasive Computing* 20.1 (2021), pp. 50–61.

[3] Abdulaziz Alajaji, Walter Gerych, **Kavin Chandrasekaran**, Luke Buquicchio, Emmanuel Agu, and Elke Rundensteiner. "Adversarial Human Context Recognition: Evasion Attacks and Defenses". In: *2023 IEEE 47th Annual Computers, Software, and Applications Conference (COMPSAC)*. IEEE. 2023, pp. 223–232.

[4] Abdulaziz Alajaji, Walter Gerych, **Kavin Chandrasekaran**, Luke Buquicchio, Emmanuel Agu, and Elke Rundensteiner. "Deepcontext: Parameterized compatibility-based attention cnn for human context recognition". In: *2020 IEEE 14th International Conference on Semantic Computing (ICSC)*. IEEE. 2020, pp. 53–60.

[5] Abdulaziz Alajaji, Walter Gerych, **Kavin Chandrasekaran**, Luke Buquicchio, Hamid Mansoor, Emmanuel Agu, and Elke Rundensteiner. "Triplet-based Domain Adaptation (Triple-DARE) for Lab-to-field Human Context Recognition". In: *2022 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops)*. IEEE. 2022, pp. 155–161.

[6] Luke Buquicchio, Walter Gerych, Abdulaziz Alajaji, **Kavin Chandrasekaran**, Hamid Mansoor, Thomas Hartvigsen, Elke Rundensteiner, and Emmanuel Agu. "Variational Open Set Recognition (VOSR)". In: *2021 IEEE International Conference on Big Data (Big Data)*. IEEE. 2021, pp. 994–1001.

[7] Luke Buquicchio, Walter Gerych, Abdulaziz Alajaji, **Kavin Chandrasekaran**, Hamid Mansoor, Elke Rundensteiner, and Emmanuel Agu. "Few-Shot Classification for Human Context Recognition Using Smartphone Data Traces". In: *2021 20th IEEE International Conference on Machine Learning and Applications (ICMLA)*. IEEE. 2021, pp. 345–350.

[8] Walter Gerych, Jessica Bader, Declan Nelson, Thalia Chao-Zhang, Luke Buquicchio, Abdulaziz Alajaji, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke Rundensteiner. "Local Geometry Preserving Deep Networks For Featurizing High Dimensional Datasets". In: *2021 20th IEEE International Conference on Machine Learning and Applications (ICMLA)*. IEEE. 2021, pp. 1010–1015.

[9] Walter Gerych, Luke Buquicchio, **Kavin Chandrasekaran**, Abdulaziz Alajaji, Hamid Mansoor, Aidan Murphy, Elke Rundensteiner, and Emmanuel Agu. "Burstpu: Classification of weakly labeled datasets with sequential bias". In: *2020 IEEE International Conference on Big Data (Big Data)*. IEEE. 2020, pp. 147–154.

[10] Walter Gerych, Tom Hartvigsen, Luke Buquicchio, Abdulaziz Alajaji, **Kavin Chandrasekaran**, Hamid Mansoor, Elke Rundensteiner, and Emmanuel Agu. "Positive Unlabeled Learning with a Sequential Selection Bias". In: *Proceedings of the 2022 SIAM International Conference on Data Mining (SDM)*. Society for Industrial and Applied Mathematics. 2022, pp. 19–27.

[11] Walter Gerych, Kevin Hickey, Luke Buquicchio, **Kavin Chandrasekaran**, Abdulaziz Alajaji, Elke Rundensteiner, and Emmanuel Agu. "Debiasing Pretrained Generative Models by Uniformly Sampling Semantic Attributes". In: *Thirty-seventh Conference on Neural Information Processing Systems*. 2023.

[12] Walter Gerych, Kevin Hickey, Thomas Hartvigsen, Luke Buquicchio, Abdulaziz Alajaji, **Kavin Chandrasekaran**, Hamid Mansoor, Emmanuel Agu, and Elke Rundensteiner. "Stabilizing Adversarial Training for Generative Networks". In: *2023 IEEE International Conference on Big Data (BigData)*. 2023, pp. 5223–5232.

[13] Walter Gerych, Harrison Kim, Joshua DeOliveira, MaryClare Martin, Luke Buquicchio, **Kavin Chandrasekaran**, Abdulaziz Alajaji, Hamid Mansoor, Elke Rundensteiner, and Emmanuel Agu. "Gan for generating user-specific human activity data from an incomplete training corpus". In: *2021 IEEE International Conference on Big Data (Big Data)*. IEEE. 2021, pp. 4705–4714.

[14] **Kavin Chandrasekaran**, Luke Buquicchio, Walter Gerych, Emmanuel Agu, and Elke Rundensteiner. "Get up!: Assessing postural activity & transitions using bi-directional gated recurrent units (Bi-GRUs) on smartphone motion data". In: *2019 IEEE Healthcare Innovations and Point of Care Technologies,(HI-POCT)*. IEEE. 2019, pp. 25–28.

[15] **Kavin Chandrasekaran**, Walter Gerych, Luke Buquicchio, Abdulaziz Alajaji, Emmanuel Agu, and Elke Rundensteiner. "CARTMAN: Complex Activity Recognition Using Topic Models for Feature Generation from Wearable Sensor Data". In: *2021 IEEE International Conference on Smart Computing (SMARTCOMP)*. IEEE. 2021, pp. 39–46.

[16] Hamid Mansoor, Walter Gerych, Abdulaziz Alajaji, Luke Buquicchio, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke Rundensteiner. "ARGUS: Interactive visual analysis of disruptions in smartphone-detected Bio-Behavioral Rhythms". In: *Visual Informatics* 5.3 (2021), pp. 39–53.

[17] Hamid Mansoor, Walter Gerych, Abdulaziz Alajaji, Luke Buquicchio, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke Rundensteiner. "Exploratory Data Analysis of Population Level Smartphone-Sensed Data". In: *International Joint Conference on Computer Vision, Imaging and Computer Graphics*. Springer International Publishing Cham. 2021, pp. 206–231.

[18] Hamid Mansoor, Walter Gerych, Abdulaziz Alajaji, Luke Buquicchio, **Kavin Chandrasekaran**, Emmanuel Agu, Elke Rundensteiner, and Angela Incollingo Rodriguez. "INPHOVIS: Interactive visual analytics for smartphone-based digital phenotyping". In: *Visual Informatics* (2023).

[19] Hamid Mansoor, Walter Gerych, Abdulaziz Alajaji, Luke Buquicchio, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke A Rundensteiner. "Computer Graphics and Animation at The Ohio State University". In: *IEEE COMPUTER GRAPHICS AND APPLICATIONS* 41.3 (2021), pp. 96–104.

[20] Hamid Mansoor, Walter Gerych, Abdulaziz Alajaji, Luke Buquicchio, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke A Rundensteiner. "PLEADES: Population Level Observation of Smartphone Sensed Symptoms for In-the-wild Data using Clustering." In: *VISIGRAPP (3: IVAPP)*. 2021, pp. 64–75.

[21] Hamid Mansoor, Walter Gerych, Abdulaziz Alajaji, Luke Buquicchio, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke A Rundensteiner. "Visual analytics of smartphone-sensed human behavior and health". In: *IEEE Computer Graphics and Applications* 41.3 (2021), pp. 96–104.

[22] Hamid Mansoor, Walter Gerych, Luke Buquicchio, Abdulaziz Alajaji, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke Rundensteiner. "INTOSIS: Interactive Observation of Smartphone Inferred Symptoms for In-The-Wild Data". In: *2020 IEEE International Conference on Big Data (Big Data)*. IEEE. 2020, pp. 4882–4891.

[23] Hamid Mansoor, Walter Gerych, Luke Buquicchio, Abdulaziz Alajaji, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke A Rundensteiner. "ARGUS: Interactive Visual Analytics Framework for the Discovery of Disruptions in Bio-Behavioral Rhythms." In: *EuroVis (Short Papers)*. 2020, pp. 25–29.

[24] Hamid Mansoor, Walter Gerych, Luke Buquicchio, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke Rundensteiner. "Comex: Identifying mislabeled human behavioral context data using visual analytics". In: *2019 IEEE 43rd Annual Computer Software and Applications Conference (COMPSAC)*. Vol. 2. IEEE. 2019, pp. 233–238.

[25] Hamid Mansoor, Walter Gerych, Luke Buquicchio, **Kavin Chandrasekaran**, Emmanuel Agu, and Elke Rundensteiner. "Delfi: Mislabelled human context detection using multi-feature similarity linking". In: *2019 IEEE Visualization in Data Science (VDS)*. IEEE. 2019, pp. 11–19.