Figure 1. The Three Main Steps of the Methodology. 1) The model normalizes both classic and advanced player features as inputs for hierarchical clustering, followed by evaluating cluster robustness. 2) Representative features are identified from each cluster using the Pearson correlation matrix derived from the clustering output. 3) The representative features are then used as predictor variables, with the remaining features serving as response variables in the regression models.

Figure 2. Clustering features for all positions

Figure 3. The result of bootstrap on the clustering of all positions

Figure 4: Clustering features for the forward position

Figure 5: The result of bootstrap on the clustering of forward position

Figure 6. Clustering features for the goalkeeper position

Figure 7. The result of bootstrap on the clustering of goalkeeper position

Figure 8. Clustering features for the defender position

Figure 9. The result of bootstrap on the clustering of defender position

Figure 10. Clustering features for the midfielder position

Figure 11. The result of bootstrap on the clustering of midfielder position