NMI(normalized mutual information gain) vs Jaccard?

Jaccard method we used are different from the NMI method we used.

NMI:

1. We compare each athelets in each clustering and get the gain, then sum up this gain.
2. This gain is not across athelets.

Jaccard:

1. compare each channels on each of the athelets, and then return the total jaccard index.
2. It assumes the similarities between groups in athelets on clustering.

I think:

1. Jaccard method may seem trivial, however because it considered each channel behavior across athelets, it generalizes the group and can be more representative than NMI.