# From Soft Clustering to Hard Clustering: A Collaborative Annealing Fuzzy *c*-means Algorithm

Hongzong Li and Jun Wang, Life Fellow, IEEE

Abstract—The fuzzy c-means clustering algorithm is the most widely used soft clustering algorithm. In contrast to hard clustering, the cluster membership of data generated using the fuzzy c-means algorithm is ambiguous. Similar to hard clustering algorithms, the clustering results of the fuzzy c-means clustering algorithm are also sub-optimal with varied performance depending on initial solutions. In this paper, a collaborative annealing fuzzy c-means algorithm is presented. To address the issue of ambiguity, the proposed algorithm leverages an annealing procedure to phase out the fuzzy cluster membership degree toward a crispy one by reducing the exponent gradually according to a cooling schedule. To address the issue of sub-optimality, the proposed algorithm employs multiple fuzzy c-means modules to generate alternative clusters based on memberships repeatedly re-initialized using a meta-heuristic rule. Experimental results on eight benchmark datasets are elaborated to demonstrate the superiority of the proposed algorithm to thirteen prevailing hard and soft algorithms in terms of internal and external cluster validity indices.

Index Terms—collaborative clustering; annealing procedure; fuzzy c-means clustering; k-means clustering.

# I. INTRODUCTION

CLUSTERING is a popular unsupervised or semisupervised learning technique to explore the hidden structures of datasets. It is to group unlabeled data into multiple disjoint subsets with high intra-cluster similarity and low inter-cluster similarity. It arises in numerous applications, such as image segmentation [1], information retrieval [1], data mining [1], document clustering [2], video surveillance [2], feature selection [3], and pattern recognition [3].

Over the past decades, numerous clustering algorithms have been proposed, and they are mainly divided into two classes, including hard and soft clustering. Hard clustering is based on the assumption of mutually exclusive clusters, whereas soft clustering relaxes the assumption allowing overlapped clusters. In addition, hard clustering provides a simpler and more straightforward interpretation of the results, whereas soft clustering usually requires further interpretation and analysis to determine appropriate cutoff values for membership assignments.

This work was supported in part by the Research Grants Council of the Hong Kong Special Administrative Region of China under Grants 11202318, 11202019, and 11203721; and in part by the InnoHK initiative, the Government of the Hong Kong Special Administrative Region, and Laboratory for AI-Powered Financial Technologies.

H.-Z. Li and J. Wang are with the Department of Computer Science, City University of Hong Kong, Hong Kong. J. Wang is also with the School of Data Science, City University of Hong Kong, Hong Kong (emails: hongzli2-c@my.cityu.edu.hk, jwang.cs@cityu.edu.hk).

Hard clustering assigns each datum to one and only one cluster. Hard clustering methods may be classified as fullspace clustering algorithms, subspace clustering algorithms, feature-weighted clustering algorithms, and multi-view clustering algorithms, depending on the feature spaces of their operations. Subspace clustering methods include the deep subspace clustering algorithm [4] and the robust possibilistic ksubspace clustering algorithm [5]. Feature-weighted clustering methods include the entropy weighting k-means clustering algorithm [6], the entropy-weighted power k-means clustering algorithm [7], and the LASSO-weighted k-means clustering algorithm [8]. Multi-view clustering methods include the weighted multi-view possibilistic c-means clustering algorithm with L2 regularization [9], and the multi-view adjacencyconstrained hierarchical clustering algorithm [10]. The hard clustering methods may be classified into hierarchical-based, center-based, distribution-based, and density-based clustering algorithms, according to the structure of the algorithms. Hierarchical-based clustering methods cluster data based on the rule that closer data points exhibit more similarity to each other than the data points lying farther away, including divisive hierarchical algorithms [11] and agglomerative hierarchical algorithms [12]. Center-based clustering methods cluster data based on the rule that similarity is derived by the closeness of data to clusters, including k-means (KM) [13], k-medoids algorithms [14], [15], k-harmonic means [16], and spectral clustering algorithms [17], [18], [19]. Distribution-based clustering methods cluster data based on the probability of data belonging to a specific distribution, including the expectationmaximization for Gaussian mixture model algorithms [20]. Density-based clustering methods cluster data based on the density of data points in the feature space, including the mean-shift algorithm [21], and the temporal streaming fuzzy density-based spatial clustering algorithm [22]. In addition, several collaborative clustering methods are proposed [23], including deep multi-view collaborative clustering [24]. In spite of the progress, the clustering methods cannot guarantee the global optimality of clustering results. To mitigate the difficulty of discontinuity in the underlying objective function of KM, the power k-means (PKM) algorithm clusters data by minimizing the majorization function of an annealed powermean function [25]. Though the clustering performance using PKM is significantly improved, the clustering result is still sub-optimal and dependent on initialization. To achieve optimal clustering results, the collaborative annealing power kmeans++ (CAPKM++) algorithm clusters data by employing multiple PKM modules re-initialized using a particle swarm optimization rule [26]. CAPKM++ is demonstrated to outperform PKM and many other baselines [26]. As an upgraded version of CAPKM++, CAPKM++2.0 [27] is shown to be able to improve clustering efficiency via re-initialization during annealing [27].

As a relaxation of hard clustering, soft clustering allows each datum to belong to multiple clusters with membership degrees. Soft clustering methods include possibilistic clustering algorithms [28] and fuzzy clustering algorithms [29]. Possibilistic clustering methods include the robust automatic merging possibilistic clustering algorithm [30], the sparse possibilistic c-means algorithm [31], and the robust possibilistic k-subspace clustering algorithm [5]. Fuzzy clustering methods include the fuzzy c-means algorithm (FCM) [32], the centroid auto-fused hierarchical fuzzy c-means clustering algorithm [33], fuzzy density peaks clustering [34], the robust jointly sparse fuzzy clustering algorithm [35], the fuzzy low-rank structural clustering algorithm [36], and the robust fuzzy cmeans algorithm [37]. Soft clustering introduces ambiguity in clustering results due to assigning each data point a membership value to each cluster. In addition, similar to existing hard clustering methods, the results of the soft clustering methods are also sub-optimal.

FCM is one of the popular soft clustering methods due to its efficiency and simplicity [29]. However, it suffers the same drawback as other fuzzy clustering algorithms. To remedy the shortcoming of performance sensitivity to initialization, many alternative methods have been proposed, such as the FCM variants with improved objective function and initialization, and additional constraints. FCM-like algorithms with improved objective function include adaptive fuzzy c-means algorithm [38], generalized fuzzy c-means clustering [39], enhanced FCM [40], fast generalized FCM [41], fuzzy weighted c-means [42], [43], generalized FCM algorithm with improved fuzzy partition [44], fuzzy local information c-means [45], Bayesian fuzzy clustering (BFC) [46], and kernel fuzzy c-means clustering (KFCM) [47]. FCM with improved initialization include multistage random sampling [48], the genetic algorithm [49], the Gustafson-Kessel algorithm [50], initialization schemes by utilizing color space in image segmentation [51], [52], Markov random field [53], and two-phase fuzzy c-means (2PFCM) [54]. Constrained FCM algorithms with additional constraints include the FCM method with spatial constraints [55], [56].

To achieve optimal clustering performance and eliminate the ambiguity in cluster membership and the dependency of performance on initial solutions, we propose the collaborative annealing fuzzy c-means based on FCM (called CAFCM in short). An annealing procedure is used in CAFCM to phase out the fuzziness of cluster membership. In addition, multiple modules are employed to engender alternative clusters and reinitialized repeatedly using a meta-heuristic rule to maximize clustering quality and eliminate the influence of initialization on clustering performance. The innovative contributions of this work are summarized as follows.

- i. We theoretically prove that the underlying objective function of FCM is equivalent to that of PKM without annealing.
- ii. We propose CAFCM with a cooling schedule and experimentally demonstrate that the polynomial cooling

- schedule is the most cost-effective one.
- We empirically estimate the computational complexity of CAFCM based on many datasets.
- iv. We experimentally demonstrate that CAFCM outperforms existing hard and soft clustering algorithms in terms of the mean values and standard deviations of many indices.

The remainder of this paper is arranged as follows. The related work on KM, FCM, PKM, CAPKM++, and CAPKM++2.0 is provided in Section II. The details of the CAFCM algorithm are presented in Section III. Experimental results on eight datasets are reported in Section IV. The paper is concluded in Section V.

#### II. RELATED WORK

#### A. The KM Algorithm

The KM algorithm is one of the most popular unsupervised learning algorithms. It groups the data into a preset number of clusters by minimizing the following objective function [13]:

$$f(\Theta) = \sum_{i=1}^{n} \min_{1 \le j \le k} ||x_i - \theta_j||_2^2, \tag{1}$$

where  $X=\{x_1,...,x_n\}\in\Re^{n\times p}$  is an unlabeled dataset, n is the number of data points, k is the number of clusters, p is the number of features,  $\Theta=[\theta_1,\cdots,\theta_k]$ , and  $\theta_j\in\Re^p$  is the j-th center.

# B. The FCM Algorithm

As an extension of KM, FCM was developed by J.C. Dunn [57], and improved by J.C. Bezdek [32]. Differing from KM that assigns each data point to exactly one cluster, FCM allows data points to belong to multiple clusters with different degrees of membership. It is based on the minimization of the following biconvex objective function [32]:

$$f_m(\mu, \Theta) = \sum_{i=1}^n \sum_{j=1}^k \mu_{ij}^m ||x_i - \theta_j||^2,$$
 (2)

where  $\mu_{ij} \in [0,1]$  is the degree of membership of the *i*-th datum in the *j*-th cluster, m > 1 is an exponent for controlling the degree of fuzzy overlap, and  $\theta_j$  is the center of the *j*-th cluster. The fuzzy objective function is subject to a constraint  $\sum_{j=1}^k \mu_{ij} = 1$  (i = 1, ..., n); i.e., for each datum, the sum of the membership degrees over all clusters is one.

The centers are updated as follows [32]: for j = 1, ..., k,

$$\theta_j = \frac{\sum_{i=1}^n \mu_{ij}^m x_i}{\sum_{i=1}^n \mu_{ij}^m}.$$
 (3)

The degrees are updated alternatingly as follows [32]: for i=1,...,n and j=1,...,k,

$$\mu_{ij} = \frac{1}{\sum_{l=1}^{k} \left(\frac{||x_i - \theta_j||}{||x_i - \theta_l||}\right)^{\frac{2}{m-1}}}.$$
 (4)

Similar to KM, FCM iterates over (3) and (4) until no degree changes. Due to the biconvexity of the fuzzy objective function

in (2), the alternating method cannot guarantee to converge to the global optimal cluster.

Note that  $\lim_{m\to 1} \mu_{ij} \in \{0,1\}$ ; i.e., FCM degenerates to KM [29].

# C. The PKM Algorithm

PKM [25] is proposed to improve k-means algorithms by minimizing the following annealed power function:

$$f_s(\Theta) := \sum_{i=1}^n \left( \frac{1}{k} \sum_{i=1}^k ||x_i - \theta_j||_2^{2s} \right)^{\frac{1}{s}}, \tag{5}$$

where s < 0 denotes a power parameter.

Rather than minimizing the concave power-mean functions in (5), PKM minimizes the convex majorization function [25]:

$$\hat{f}_s(\Theta) = \sum_{i=1}^n \sum_{j=1}^k w_{ij}(t) ||x_i - \theta_j(t+1)||_2^2.$$
 (6)

The weights are updated as follows [25]:

$$w_{ij}(t) = \frac{||x_i - \theta_j(t)||^{2(s-1)}}{\left(\sum_{l=1}^k ||x_i - \theta_l(t)||^{2s}\right)^{1-\frac{1}{s}}}.$$
 (7)

The clusters are updated as follows [25]:

$$\theta_j(t+1) = \frac{1}{\sum_{i=1}^n w_{ij}(t)} \sum_{i=1}^n w_{ij}(t) x_i.$$

The power parameter s is decreased at each step according to the following cooling schedule [25]:

$$s(t+1) = \eta s(t),$$

where s(0) < 0 and  $\eta > 1$ .

Let  $s = -\frac{1}{m-1}$ . The weight updating rule in (7) is rewritten as follows:

$$w_{ij} = \frac{||x_i - \theta_j||^{2(s-1)}}{(\sum_{l=1}^k ||x_i - \theta_l||^{2s})^{1-\frac{1}{s}}},$$

$$= \frac{||x_i - \theta_j||^{-2m/(m-1)}}{(\sum_{l=1}^k ||x_i - \theta_l||^{-2/(m-1)})^m}.$$
(8)

Via substituting the weight updating rule in (8), the objective function in (5) is rewritten as follows:

$$\hat{f}_s(\Theta) = \sum_{i=1}^n \sum_{j=1}^k w_{ij} ||x_i - \theta_j||^2,$$

$$= \sum_{i=1}^n \sum_{j=1}^k \frac{||x_i - \theta_j||^{-2m/(m-1)}}{(\sum_{l=1}^k ||x_i - \theta_l||^{-2/(m-1)})^m}$$

$$||x_i - \theta_i||^2, \tag{9}$$

The degree updating rule of FCM in (4) is rewritten as follows:

$$\mu_{ij} = \frac{1}{\left(\sum_{l=1}^{k} \left(\frac{||x_i - \theta_j||}{||x_i - \theta_l||}\right)^{\frac{2}{m-1}}\right)},$$

$$= \frac{||x_i - \theta_j||^{-2/(m-1)}}{\sum_{l=1}^{k} \left(\left||x_i - \theta_l|\right|\right)^{2/(m-1)}},$$
(10)

Via substituting the degree updating rule in (10), the objective function of FCM in (2) is further rewritten as follows:

$$f_{m}(\mu,\Theta) = \sum_{i=1}^{n} \sum_{j=1}^{k} \mu_{ij}^{m} ||x_{i} - \theta_{j}||^{2},$$

$$= \sum_{i=1}^{n} \sum_{j=1}^{k} \frac{||x_{i} - \theta_{j}||^{-2m/(m-1)}}{(\sum_{l=1}^{k} ||x_{i} - \theta_{l}||^{-2/(m-1)})^{m}}$$

$$||x_{i} - \theta_{j}||^{2}, \tag{11}$$

3

It indicates that the objective functions of FCM in (9) and PKM in (11) are equivalent.

## D. The CAPKM++ and CAPKM++2.0 Algorithms

PKM is demonstrated in [25] to perform better than Lloyd's algorithm [13] and k-harmonic means [16]. Nevertheless, its clustering results are not globally optimal since its performance heavily depends on the anchor points where its majorization functions are located. To address the aforementioned issue, CAPKM++ [26] employs multiple PKM modules to generate centers for alternative clusters, and use a particle swarm optimization rule for repositioning the initial centers.

CAPKM++2.0 [27] is an upgraded version of CAPKM++. CAPKM++2.0 re-initializes the weights in the majorization function during annealing rather than re-initializing cluster centers after annealing. Additionally, CAPKM++2.0 minimizes the power-mean functions directly instead of their majorization function as in PKM and CAPKM++. It is demonstrated in [27] that CAPKM++2.0 is more efficient than CAPKM++ in terms of algorithmic complexities.

# III. ALGORITHM DESCRIPTION

The proposed CAFCM algorithm consists of triple loops: an FCM clustering loop, a reinitialization loop, and an annealing loop. In the FCM clustering loop, multiple FCM modules iterate until convergence. In the reinitialization loop, the FCM modules are reinitialized. In the annealing loop, an exponent m(t) decreases iteratively. The fuzzy objective function in (2) is minimized during such an annealing process, similar to PKM [25], CAPKM++ [26], and CAPKM++2.0 [27]. As shown in Fig. 1, the following three types of cooling schedules may be used for the annealing of exponent m(t). An exponential cooling schedule:

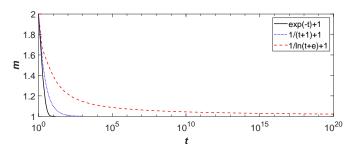


Fig. 1. The annealing curves of the three cooling schedules.

$$m_e(t) = (m_e(0) - 1) \exp(-t) + 1.$$
 (12)

A polynomial cooling schedule:

$$m_p(t) = \frac{m_p(0) - 1}{t + 1} + 1. (13)$$

A logarithmic cooling schedule:

$$m_l(t) = \frac{m_l(0) - 1}{\ln(t + e)} + 1.$$
 (14)

Note that  $\lim_{t\to\infty} m_e(t) = \lim_{t\to\infty} m_p(t) = \lim_{t\to\infty} m_l(t) = 1$ . Each of the three cooling schedules has its pros and cons. As shown in Fig. 1, the exponential cooling schedule is the fastest, and it may cause prematurity in analogy to simulated annealing. The logarithmic cooling schedule is the slowest, and it takes a very long time to reduce to 1. The polynomial schedule is in-between.

In analogy to CAPKM++ [26] and CAPKM++2.0 [27], to overcome the biconvexity,  $\mu(0)$  is repeatedly re-initialized according to the following particle swarm optimization rule in [58]:

$$v^{(i)}(t+1) = c_0 v^{(i)}(t) + c_1 r_1 (\mu^{(i)*} - \mu^{(i)}(t))$$
 (15a)

$$+c_2r_2(\mu^* - \mu^{(i)}(t)),$$
 (15b)

$$\mu^{(i)}(t+1) = \mu^{(i)}(t) + v^{(i)}(t+1), \tag{15c}$$

where  $v^{(i)}(t)$  is an incremental vector of the *i*-th module,  $\mu^{(i)*}$  is the current best degree vector of the *i*-th module,  $\mu^{(i)}(t)$  is the current degree vector of the *i*-th module,  $\mu^*$  is the current best degree vector of the multiple modules,  $c_0 \in [0,1]$  is a constant,  $c_1, c_2$  are two positive constants, and  $r_1, r_2$  are two random numbers in [0,1].

The high diversity of solutions is essential for improving clustering performance. A diversity measure of solutions is defined as follows:

$$\delta(\mu) = \frac{1}{Nnk} \sum_{i=1}^{N} \|\mu^{(j)} - \mu^*\|_2, \tag{16}$$

where N is the population size (i.e., the number of alternative cluster sets).

Mutation operation is a commonly used method to maintain a certain level of diversity and prevent premature convergence. If the diversity measure is below a threshold (i.e.,  $\delta(\mu) < \delta_{\min}$ ), then a wavelet mutation operator is used to assure the diversity [59]:

$$\mu^{(i)}(t+1) = \begin{cases} \mu^{(i)}(t) + \zeta(\overline{\mu}^{(i)} - \mu^{(i)}(t)) & \zeta > 0, \\ \mu^{(i)}(t) + \zeta(\mu^{(i)}(t) - \underline{\mu}^{(i)}) & \zeta < 0, \end{cases}$$
(17)

where  $\overline{\mu}^{(i)}=1$  and  $\underline{\mu}^{(i)}=0$  are the upper bound and lower bound of the membership degree of the *i*-th module, and  $\zeta$  is defined by a wavelet function:

$$\zeta = \frac{1}{\sqrt{a}} \exp{-\frac{1}{2}(\frac{\psi}{a})^2 \cos(\frac{5\psi}{a})},$$

where  $a=\exp\left(10(\ell/\ell_{\rm max})\right)$  is the amplitude of the wavelet function,  $\ell_{\rm max}$  is the maximum iterative number, and  $\psi$  is the frequency of the wavelet function to be randomly generated from the interval [-2.5a, 2.5a].

Figure 2 portrays a flowchart of the CAFCM algorithm, and Algorithm 1 details its procedure. In Steps 6-10, centers  $\Theta$  and

# **Algorithm 1: CAFCM**

```
particle/group best degrees \tilde{\mu}^{(p)}/\mu^*,
                  f(\tilde{\mu}^{(p)}) = f(\mu^*) = \infty, initial degrees
                  [\mu^{(1)}(0),...,\mu^{(N)}(0)], initial incremental vector
                  [v^{(1)}(0),...,v^{(N)}(0)],
     Output: \mu^*.
 1 t \leftarrow 0;
 2 repeat
           while l \leq M do
                  for i = 1 to N do
 4
                        \hat{t} \leftarrow 1;
 5
                        repeat
 6
                               Update \Theta^{(i)}(\hat{t}) according to Eqn. (3);
                               Update \mu^{(i)}(\hat{t}) according to Eqn. (4);
 8
 9
                               \hat{t} \leftarrow \hat{t} + 1:
                         \begin{array}{c} \mathbf{until} \ |f_m(\boldsymbol{\mu}^{(i)}(\hat{t}), \boldsymbol{\Theta}^{(i)}(\hat{t})) - f_m(\boldsymbol{\mu}^{(i)}(\hat{t} - \boldsymbol{\Phi}^{(i)}(\hat{t}))) - f_m(\boldsymbol{\mu}^{(i)}(\hat{t} - \boldsymbol{\Phi}^{(i)}(\hat{t}))) \end{array} 
10
                           1), \Theta^{(i)}(\hat{t}-1))| < \epsilon;
                        \begin{array}{c} \text{if } f(\mu^{(i)}) < f(\tilde{\mu}^{(i)}) \text{ then} \\ \mid \ \tilde{\mu}^{(i)} \leftarrow \mu^{(i)}; \end{array}
11
12
13
14
                  i^* = \arg\min_{i} \{ f(\mu^{(1)}), ..., f(\mu^{(i)}), ..., f(\mu^{(N)}) \};
15
                  \begin{array}{l} \text{if } f(\mu^{(i^*)}) < f(\mu^*) \text{ then} \\ \mid \ \mu^* \leftarrow \mu^{(i^*)}; \end{array}
16
17
18
                  else
19
                        l \leftarrow l + 1;
20
                  for i = 1 to N do
22
                         Update v^{(i)} according to Eqn. (15a);
23
                        Update \mu^{(i)} according to Eqn. (15c);
24
25
                  Compute \delta(\mu) according to Eqn. (16);
26
                  if \delta(\mu) < \delta_{\min} then
27
                        Perform mutation according to Eqn. (17);
28
29
                  end
           end
30
           t \leftarrow t + 1;
31
           Reduce m(t) according to Eqn. (12), Eqn. (13), or
             Eqn. (14);
33 until m(t) - 1 < \epsilon;
34 return \mu^*.
```

**Input:** M, N, m(0),  $c_0$ ,  $c_1$  and  $c_2$ ,  $X \in \mathbb{R}^{n \times p}$ .

degrees  $\mu$  are updated alternately until convergence, where  $\epsilon$  in Step 10 is to determine whether  $f_m(\mu^{(i)}(\hat{t}), \Theta^{(i)}(\hat{t}))$  and  $f_m(\mu^{(i)}(\hat{t}-1), \Theta^{(i)}(\hat{t}-1))$  are close enough. In Steps 11-13, the individual best degrees  $\tilde{\mu}^{(i)}$  are determined. In Steps 15-21, the group best degrees  $\mu^*$  are determined and the termination counter is updated. In Steps 22-25, the degrees are re-initialized according to (15). In Step 26, the diversity of the N sets of degrees is measured according to (16). In Steps 27-29, the wavelet mutation operator in (17) is performed if the diversity measure is below the preset threshold  $\delta_{\min}$ . In Step 32, the exponent m is reduced according to one of the

5

three cooling schedules. In Step 10, the termination condition whether m is close to 1 is determined. The code of CAFCM is available in Github<sup>1</sup>.

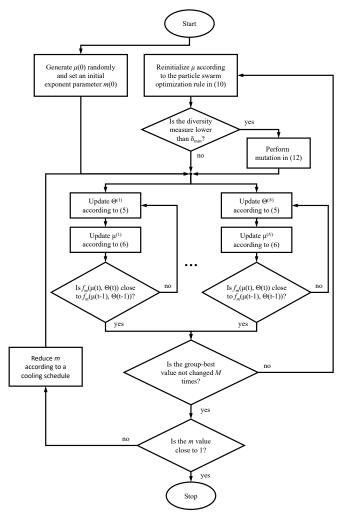


Fig. 2. A flowchart of CAFCM.

#### IV. EXPERIMENTAL RESULTS

In the experiments, the CAFCM parameters are set as follows. The value of the initial exponent m(0) is set to 2, as in most of the existing references. The diversity threshold  $\delta_{\min}$  is set to a sufficiently small value (i.e.,  $10^{-3}$ ). In the FCM clustering loop of CAFCM, the parameter  $\epsilon$  is also set to a sufficiently small value (i.e.,  $10^{-3}$ ) as a stopping criterion of cluster membership updating. In the particle swarm optimization rule in (15),  $c_0$ ,  $c_1$ , and  $c_2$  are set to 1, as typically in many references; e.g., [26], [27].

## A. Cooling Schedules

In this subsection, we compare the performances of CAFCM with the three cooling schedules. To make a fair comparison, the three cooling schedules are set to the same number of iterations. Since the logarithmic cooling schedule takes a long

time for m(t) to reduce to 1, instead of iterating over every t, sampling time  $\tau(t)$  is used under the condition that the value of  $m_l(\tau)$  is larger than that of the polynomial cooling schedule at every sampling time (i.e.,  $m_l(\tau(t)) > m_p(t)$ ) to keep its annealing process slower than the polynomial one. Since  $\frac{m_p(0)}{t+2} > \frac{m_p(0)-1}{t+1}$  for  $t > m_p(0) - 1$ , letting  $\frac{m_l(0)-1}{\ln(\tau(t)+e)} + 1 = \frac{m_p(0)}{t+2} + 1$  enables  $m_l(\tau(t)) > m_p(t)$ . The solution to the equation is  $\tau(t) = \exp(\frac{(m_l(0)-1)(t+2)}{m_l(0)}) - e$ , assuming that  $m_l(0) = m_p(0)$ .

The experimental results are based on eight commonly used datasets summarized in Table I. In addition, to show the superiority of CAFCM with the logarithmic cooling schedule on the dataset that is difficult to cluster, a dataset under uniform distribution (called UDD) is generated, where n=5000 and p=2.

TABLE I
INFORMATION ABOUT THE EIGHT BENCHMARK DATASETS AND THE
CORRESPONDING HYPER-PARAMETER VALUES USED IN CAFCM.

Datasets	n	p	k	N	M
NCI9 <sup>1</sup> [60]	60	9712	9	2	10
WarpPIE10P <sup>2</sup> [60]	210	2420	10	2	5
WQ-White <sup>3</sup> [61]	4898	11	11	2	15
PageBlocks <sup>4</sup> [61]	5472	10	5	2	5
Texture <sup>5</sup> [61]	5500	40	11	3	15
Optdigits <sup>6</sup> [61]	5620	65	10	2	5
EGS <sup>7</sup> [62]	10000	13	2	2	5
LR <sup>8</sup> [63]	20000	16	26	3	15

- https://jundongl.github.io/scikit-feature/files/datasets/nci9.mat
- <sup>2</sup> https://jundongl.github.io/scikit-feature/files/datasets/warpPIE10P.mat
- <sup>3</sup> https://sci2s.ugr.es/keel/dataset.php?cod=209
- https://sci2s.ugr.es/keel/dataset.php?cod=104
- 5 https://sci2s.ugr.es/keel/dataset.php?cod=72
- 6 https://sci2s.ugr.es/keel/dataset.php?cod=199
- 7 https://archive.ics.uci.edu/ml/datasets/Electrical+Grid+Stability+ Simulated+Data+
- <sup>8</sup> https://archive.ics.uci.edu/ml/datasets/Letter+Recognition

Fig. 3 shows 20-run Monte Carlo test results of CAFCM (N=2 and M=5) with the three cooling schedules on the six datasets in Table I and the uniformly distributed dataset. As shown in Fig. 3, CAFCM with the polynomial cooling schedule or the logarithmic cooling schedule outperforms that with the exponential cooling schedule. It is also shown in Fig. 3 that CAFCM with the logarithmic cooling schedule outperforms that with the polynomial cooling schedule on NCI9, Texture, and UDD, especially on the uniformly distributed dataset, and the superiority is more evident for a larger k value on the uniformly distributed dataset.

Although the performance of CAFCM with the logarithmic cooling schedule is better than that with the polynomial cooling schedule, it takes too long time to reach 1, or it is difficult to set a reasonable sampling time to achieve high performance. In the view that CAFCM with the polynomial cooling schedule performs well on the six datasets in Table I, the polynomial cooling schedule  $m_p(t)$  is used in all the other experiments.

<sup>&</sup>lt;sup>1</sup>https://github.com/HongzongLI-CS/CAFCM-Github

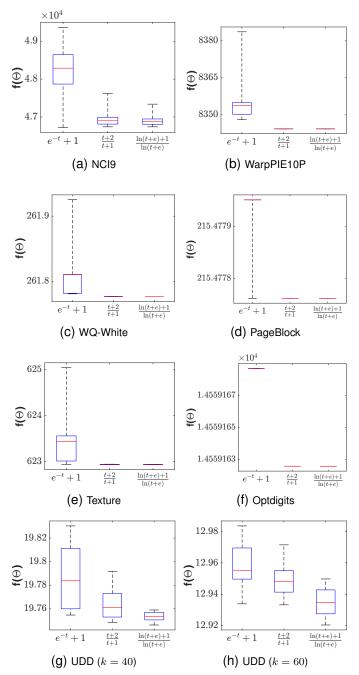


Fig. 3. Monte Carlo test results of CAFCM (N=2 and M=5) with the three cooling schedules on the six datasets and the uniformly distributed dataset with two different k values.

## B. Hyper-parameters Selection

Similar to CAPKM++ [26] and CAPKM++2.0 [27], the values of two hyper-parameters N and M in Algorithm 1 are selected based on 50-run Monte Carlo tests on the six datasets. Fig. 4 depicts the boxplots of the Monte Carlo test results obtained using the CAFCM algorithm over 20 runs on the six datasets. As shown in Fig. 4, the results of the objective function values reaching zero standard deviation with N=2 and M=10 on NCI9, N=2 and M=5 on WQ-White, N=2 and M=15 on WarpPIE10P, N=2 and M=5 on PageBlocks, N=3 and M=15 on Texture, and N=2

and M=5 on Optdigits. Table I tabulates the values of the two hyper-parameters (i.e., N and M) used in CAFCM on the eight datasets.

# C. Convergent Behaviors

Fig. 5 depicts twelve snapshots of the convergent centers  $\Theta$  and the convergent degrees  $\mu$  values in the FCM clustering loop (Steps 6-10) of CAFCM on the six datasets. Fig. 6 depicts the monotonically decreasing values of  $f_m(\mu,\Theta)$  in Eqn. (2) corresponding to  $\Theta$  and  $\mu$  in Fig. 5. They show that the centers and the degrees reach their equilibria and the fuzzy objective function values reach their minima with a range of 40-400 iterations in the FCM clustering loop of CAFCM.

Fig. 7 depicts the monotonically decreasing values of  $f(\Theta)$  in the annealing loop (Steps 2-33) of CAFCM on the six datasets. It shows that CAFCM converges within 120 iterations on NCI9, 80 iterations on WarpPIE10P, 1000 iterations on WineQuality-White, 30 iterations on PageBlocks, 160 iterations on Texture, and 1500 iterations on Optidigits.

## D. Performance Comparison

The clustering performance of CAFCM is compared with the following six fuzzy clustering algorithms and seven crisp clustering algorithm: KM<sup>2</sup>, k-mean++ (KM++)<sup>3</sup>, PKM [25], entropy weighted power k-means (EWPKM)<sup>4</sup>, spectral clustering (SC)<sup>5</sup>, hierarchical clustering (HC)<sup>6</sup>, CAPKM++2.0 [27], BFC [46], fuzzy subspace clustering (FSC) [64], maximum entropy clustering (MEC) [65], FCM7, KFCM [47], and 2PFCM [54]. The clustering results of the fuzzy clustering algorithms (i.e., BFC, FSC, MEC, FCM, KFCM, and 2PFCM) are determined by the maximum fuzzy membership degrees. The code of PKM is provided by the authors of [25]. The agglomerative hierarchical clustering algorithm is used. The code of BFC is obtained from a link in [46]. As BFC involves the Cholesky factorization of the covariance matrices of data and the covariance matrices of some data are not positive definite, BFC may not be applicable to some datasets. The codes of FSC and MEC are obtained from Github<sup>8</sup>. The codes of KFCM and 2PFCM are shared by the authors of [47] and [54], respectively. The Euclidean distance is used as the dissimilarity measure in all algorithms.

The performance evaluation for the experimental results is based on nineteen internal criteria listed in Table 3 in [26] and three external criteria described in subsection 4.1 in [26]. Due to the wide range of values of WGSS, CHI, XBI, and TWI, they are normalized by p, (n-k)/(k-1), n, and pk, respectively, to facilitate the later tabular presentation.

Tables II-V tabulate the means and standard deviations of the internal and external cluster validity indices values over 50

 $<sup>^2</sup>https://www.mathworks.com/help/stats/kmeans.html?s\_tid=srchtitle\_kmean\_1$ 

<sup>&</sup>lt;sup>3</sup>https://github.com/xuyxu/Clustering

<sup>&</sup>lt;sup>4</sup>https://github.com/DebolinaPaul/EWP

<sup>&</sup>lt;sup>5</sup>https://www.mathworks.com/help/stats/spectralcluster.html

<sup>&</sup>lt;sup>6</sup>https://www.mathworks.com/help/stats/hierarchical-clustering.html?s\\_tid=srchtitle\\_hierarchical\%20clustering\_1

<sup>&</sup>lt;sup>7</sup>https://www.mathworks.com/help/fuzzy/fcm.html

<sup>&</sup>lt;sup>8</sup>https://github.com/kailugaji/Fuzzy\_Clustering\_Algorithms

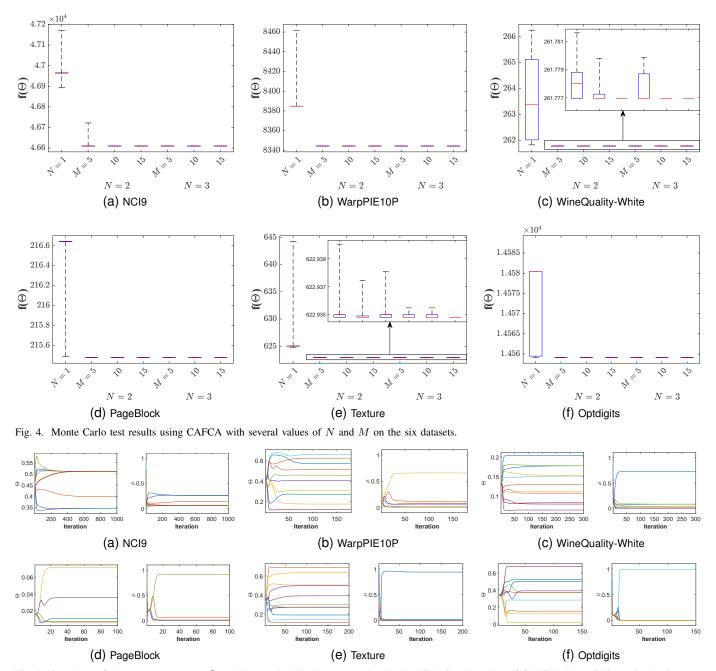


Fig. 5. Snapshots of the convergent centers  $\Theta$  and the membership degrees  $\mu$  values in the FCM clustering loop of CAFCM (Steps 6-10) on the six datasets, where the lines in the left subplots portray the first feature values of k centers, and the lines in the right subplots portray the k membership degrees.

runs by using CAFCM and thirteen prevailing algorithms with random initialization on the eight datasets, where × indicates "not applicable", and the best and second-best results are boldfaced and underlined, respectively. Specifically, CAFCM achieves 81 best and 20 second-best means out of 168 entries (i.e., 48.21% and 60.12% for the best and the best plus the second-best), and CAPKM++2.0 ranks in second place, achieving 40 best and 55 second-best means (i.e., 23.81% and 56.55%), and SC ranks in third place, achieving 23 best and 3 second-best means (i.e., 13.69% and 15.48%). Fig. 8 depicts the counts of the best and best plus second-best index mean values by using CAFCM and the thirteen baselines. As shown in Fig. 8, CAFCM, CAPKM+++2.0, and SC rank in

the first three places in terms of the counts of the best index mean values. CAFCM, CAPKM+++2.0, and PKM rank in the first three places in terms of the counts of best plus second-best index mean values. In addition, the standard deviations of the results using CAFCM are zero, indicating the highest consistency of the algorithm.

# E. Complexity Analysis

As shown in Table I and Table S-II in the supplementary materials, the suitable number of modules N is 2 or 3, for 18 datasets with various values of n, p, and k. As N is a small constant, the spatial complexity of CAFCM is the same as FCM (i.e., O((n+p)k) [66]).

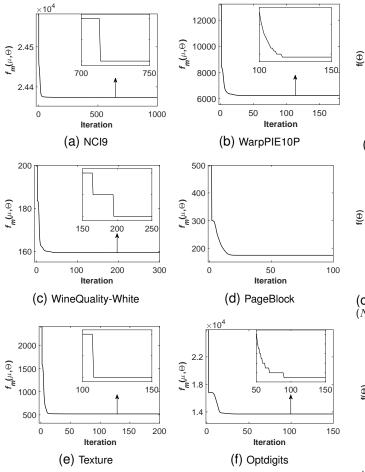


Fig. 6. Snapshots of the fuzzy objective function values of  $f_m(\mu,\Theta)$  in (2) with m=1.5 in the FCM clustering loop of CAFCM (Steps 6-10) on the six datasets.

The time complexity is empirically estimated via nonnegative least-squares regression using the numbers of iterations on the 18 datasets:

$$\min_{w} ||Cw - T||_2^2,$$
s.t.  $w \ge 0$ ,

where  $w \in \Re^{38}$  is the weight vector of the terms,  $T \in \Re^{18}$  is the vector of iteration counts, and  $C \in \Re^{18 \times 38}$  is the matrix of 38 combinations of polynomials and logarithms of n, m, and p. Table S-VIII in the supplementary materials lists the 38 combinations of polynomials and logarithms of n, m, and p, and their estimated coefficients. By neglecting the terms with their coefficients w smaller than 0.0001, the resulting estimate is  $2,288,239k^2np+351,783k^2np\log(p)$ . As the second term is of higher order, the estimated time complexity of CAFCM is  $O(k^2np\log(p))$ . As the time complexity of FCM is  $O(k^2np)$  per iteration [66], it is  $\log(p)$  times that of FCM.

## V. CONCLUDING REMARKS

In this paper, a collaborative annealing fuzzy c-means clustering algorithm is proposed. The experimental results on eight datasets demonstrate that the proposed algorithm with only two or three modules statistically outperforms thirteen

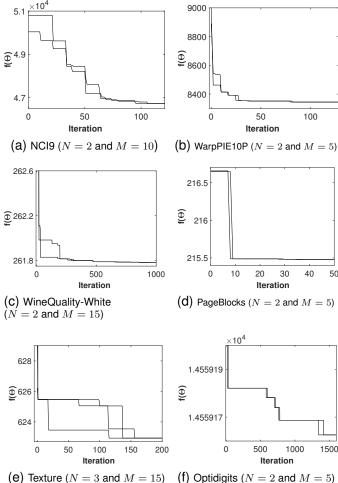


Fig. 7. The descending objective function values of  $f(\Theta)$  in the annealing loop of CAFCM (Steps 2-33) on the six datasets.

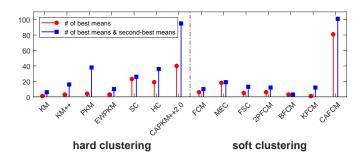


Fig. 8. The counts of the best and best plus second-best index mean values using CAFCM and the thirteen baselines.

competing algorithms in terms of many cluster validity indices. The proposed method achieves superior performance, owing to the adoption of the annealing procedure to phase out fuzziness, as well as collaborative modules to maximize clustering quality and eliminate the influence of initial solutions on clustering performance. Further research may include improving the efficiency of the proposed method, extending it for robust clustering to cluster data in the presence of noises or outliers, extending it for semi-supervised clustering to leverage information from labeled and unlabeled data, extending it for multi-view clustering to take into account of multiple

perspectives or representations of data, and applying it to specific problems in science and engineering.

TABLE II THE MEAN VALUES AND STANDARD DEVIATIONS OF INTERNAL AND EXTERNAL CLUSTER VALIDITY INDICES RESULTING FROM CAFCM, AND THIRTEEN BASELINES ON NCI9 AND WARPPIE10P, WHERE N=2 and M=10 in CAPKM++2.0 and CAFCM on NCI9, and N=2 and M=5 in CAPKM++2.0 and CAFCM on WarpPIE10P.

MRILL   0.8730 ± 0.0147	NCI9	KM	KM++	PKM	EWPKM	SC	HC	CAPKM++2.0
MRM1	WGSS↓	$5.2462 \pm 0.1468$	$5.2877 \pm 0.1555$	$4.8592 \pm 0.0129$	$4.8614 \pm 0.0114$	$6.5683 \pm 0.1529$	$5.0366 \pm 0.0000$	$4.8116 \pm 0.0029$
REIGH: 0.6996 ± 0.0790 ± 0.078	MRI↓	$0.8730 \pm 0.0147$		$0.8468\pm0.0056$	$0.8472 \pm 0.0052$			
CITY   0.1656 ± 0.0452   0.1641 ± 0.0619   0.1234 ± 0.0142   0.1245 ± 0.0133   0.5099 ± 0.0457 ± 0.0041   0.1034 ± 0.0000   0.000	GPI↓							
THE NAME   0.3300 ± 0.0412   0.3381 ± 0.0420   0.3217 ± 0.0010   0.1915 ± 0.0189   0.0141 ± 0.0029   0.3515 ± 0.0000   0.3007 ± 0.0010   0.4014 ± 0.0029   0.3515 ± 0.0000   0.7014 ± 0.0029   0								
REALPY 01-964 ± 0.0006	TI↑	$0.3300 \pm 0.0412$	$0.3383 \pm 0.0420$	$0.3217 \pm 0.0200$	$0.3195 \pm 0.0189$	$-0.0142 \pm 0.0397$	$0.3551 \pm 0.0000$	$\overline{0.3802 \pm 0.0040}$
CHÍP  0.4874 ± 0.0481								
WGF   0.122± ± 0.0142   0.1935 ± 0.0167   0.2032 ± 0.017   0.2035 ± 0.0185   0.0007   0.2547 ± 0.0000	CHI↑	$0.4874 \pm 0.0341$	$0.5000 \pm 0.0418$	$0.5550 \pm 0.0041$	$0.5543 \pm 0.0036$	$0.1548 \pm 0.0140$	$0.5531 \pm 0.0000$	$0.5704 \pm 0.0009$
DEPT   0.6114 ± 0.0332   0.627 ± 0.0318   0.664 ± 0.0099   0.6626 ± 0.0113   0.4772 ± 0.0127   0.6890 ± 0.0000   0.6558 ± 0.0073   0.6781   0.0000   0.6781 ± 0.0000   0.6781								
PRIMIT	DI↑	$0.6114 \pm 0.0332$	$0.6227 \pm 0.0336$	$0.6634 \pm 0.0089$	$0.6626 \pm 0.0113$	$0.4727 \pm 0.0127$	$0.6890 \pm 0.0000$	$0.6568 \pm 0.0075$
Mail								
LSSRIT	XBI↓	$0.0120 \pm 0.0010$	$0.0119 \pm 0.0011$	$0.0102 \pm 0.0000$	$0.0102 \pm 0.0000$		$0.0102 \pm 0.0000$	$0.0101 \pm 0.0000$
TWILE	DBI↓ I CCDI↑							
NAMIT   0.3976 ± 0.0440   0.3922 ± 0.0447   0.4753 ± 0.0134   0.4720 ± 0.0144   0.2475 ± 0.0392   0.0475 ± 0.0390   0.4815 ± 0.0085   0.4816 ± 0.0855   0.0090   0.4815 ± 0.0855   0.0090   0.4815 ± 0.0855   0.0090   0.4815 ± 0.0856   0.0090   0.4815 ± 0.0856   0.0090   0.4815 ± 0.0856   0.0090   0.4815 ± 0.0866   0.0900   0.4815 ± 0.0867   0.8757 ± 0.0000   0.8775 ± 0.0000   0.983 ± 0.0000   0.8775 ± 0.0000   0.9775 ± 0.0000   0.9775 ± 0.0000   0.9775 ± 0.0000   0.9785 ± 0.0000   0.9775 ± 0.0000   0.9775 ± 0.0000   0.9885 ± 0.0000   0.00000   0.00	TWI↓							
ARIF   0.1113 ± 0.0412	ACC↑	$0.3973 \pm 0.0417$	$0.3907\pm0.0464$	$0.4373 \pm 0.0141$	$0.4317 \pm 0.0144$	$0.2623\pm0.0225$	$\textbf{0.4667}\pm\textbf{0.0000}$	
NCP    CM	NMI↑							
WGSE,								
MRIL								
GPIL   0.0872 ± 0.0900   0.0872 ± 0.0900   0.0971 ± 0.0008   0.0972 ± 0.0000   ×	,	1						
BHGIFT   0.6512 ± 0.0000	GPI↓							
TITÉ   0.4606 ± 0.0000   0.4606 ± 0.0000   0.0023 ± 0.0193   0.0003   0.1231 ± 0.0000   0.0000 ± 0.0038   0.0000   0.000	BHĠI↑		$0.6512 \pm 0.0000$			×		
DCIT   1.5162 ± 0.0000	TI <sup>†</sup>							
CHIT	DGI↑	$1.5162 \pm 0.0000$	$1.5162 \pm 0.0000$	$1.2437 \pm 0.0333$	$1.5162 \pm 0.0000$	×	$1.4460 \pm 0.0692$	$1.4970 \pm 0.0000$
RTIL	RLI↑ CHI↑							
Diff   0.596  ± 0.0000	RTI↓	$1.3893 \pm 0.0000$	$1.3893 \pm 0.0000$	$4.9573 \pm 0.5891$	$1.3893 \pm 0.0000$	×	$1.5432 \pm 0.3750$	$1.7243 \pm 0.0000$
BHIT	WGI↑ DI↑							
XBIL   0.0131 ± 0.0000	BHI↑	$1031.1357 \pm 0.0000$	$1031.1357\pm0.0000$	$1025.6173 \pm 26.0115$	$1031.1357 \pm 0.0000$	×	$588.0926 \pm 152.9647$	$695.6437 \pm 0.0000$
DBI_								
TVI_L	DBI↓	$2.3399 \pm 0.0000$	$2.3399 \pm 0.0000$	$3.9249 \pm 0.1331$	$2.3399 \pm 0.0000$	×	$1.8879\pm0.3532$	$2.1064 \pm 0.0000$
AGE								
NMIT		1						
WGSS   3,6702 ± 0.1250   3,639 ± 0.0102   3,4673 ± 0.0081   3,4660 ± 0.0053   5,424 ± 0.1375   3,330 ± 0.0000   3,4485 ± 0.00071   3,000 ± 0.0164   0,000 ± 0.0063   0,000 ± 0.0063   0,000 ± 0.0063   0,000 ± 0.0063   0,000 ± 0.0063   0,000 ± 0.0063   0,000 ± 0.0063   0,000 ± 0.0063   0,000 ± 0.0064   0,000 ± 0.0063   0,000 ± 0.0064   0,000 ± 0.0063   0,000 ± 0.0064   0,000 ± 0	NMI↑	$0.0649 \pm 0.0000$	$0.0649 \pm 0.0000$	$0.2855 \pm 0.0335$	$0.0649 \pm 0.0000$	×	$0.1473 \pm 0.0197$	$0.4553 \pm 0.0000$
MRIL	ARI↑	$0.0050 \pm 0.0000$	$0.0050 \pm 0.0000$	$0.0007 \pm 0.0247$	$0.0050 \pm 0.0000$	×	$0.0107 \pm 0.0055$	$0.17/5 \pm 0.0000$
MRIL								
GPI_	_							
BHG	WGSS↓	3.6702 ± 0.1250	$3.6396 \pm 0.1102$	$3.4673 \pm 0.0081$	$3.4660 \pm 0.0053$	$5.4244 \pm 0.1375$	$3.5330 \pm 0.0000$	$3.4485 \pm 0.0007$
Tiff	WGSS↓ MRI↓	$3.6702 \pm 0.1250$ $0.5617 \pm 0.0153$	$3.6396 \pm 0.1102$ $0.5549 \pm 0.0114$	$3.4673 \pm 0.0081$ $0.5519 \pm 0.0020$	$3.4660 \pm 0.0053$ $0.5528 \pm 0.0011$	$5.4244 \pm 0.1375$ $1.0070 \pm 0.0072$	$3.5330 \pm 0.0000$ $0.5548 \pm 0.0000$	$\frac{3.4485 \pm 0.0007}{0.5375 \pm 0.0014}$
DG T	WGSS↓ MRI↓ GPI↓ BHGI↑	$3.6702 \pm 0.1250$ $0.5617 \pm 0.0153$ $0.0184 \pm 0.0038$ $0.8269 \pm 0.0287$	$3.6396 \pm 0.1102$ $0.5549 \pm 0.0114$ $0.0168 \pm 0.0025$ $0.8398 \pm 0.0231$	$3.4673 \pm 0.0081$ $0.5519 \pm 0.0020$ $0.0152 \pm 0.0003$ $0.8334 \pm 0.0030$	$3.4660 \pm 0.0053$ $0.5528 \pm 0.0011$ $0.0154 \pm 0.0001$ $0.8314 \pm 0.0021$	$5.4244 \pm 0.1375$ $1.0070 \pm 0.0072$ $0.2305 \pm 0.0077$ $-0.0002 \pm 0.0140$	$3.5330 \pm 0.0000$ $0.5548 \pm 0.0000$ $0.0168 \pm 0.0000$ $0.8260 \pm 0.0000$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ \hline 0.0132 \pm 0.0002 \\ \hline 0.8589 \pm 0.0012 \end{array}$
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	WGSS↓ MRI↓ GPI↓ BHGI↑ CI↓	$3.6702 \pm 0.1250$ $0.5617 \pm 0.0153$ $0.0184 \pm 0.0038$ $0.8269 \pm 0.0287$ $0.0924 \pm 0.0127$	$3.6396 \pm 0.1102$ $0.5549 \pm 0.0114$ $0.0168 \pm 0.0025$ $0.8398 \pm 0.0231$ $0.0867 \pm 0.0113$	$3.4673 \pm 0.0081$ $0.5519 \pm 0.0020$ $0.0152 \pm 0.0003$ $0.8334 \pm 0.0030$ $0.0938 \pm 0.0014$	$3.4660 \pm 0.0053$ $0.5528 \pm 0.0011$ $0.0154 \pm 0.0001$ $0.8314 \pm 0.0021$ $0.0945 \pm 0.0012$	$5.4244 \pm 0.1375$ $1.0070 \pm 0.0072$ $0.2305 \pm 0.0077$ $-0.0002 \pm 0.0140$ $0.4955 \pm 0.0101$	$3.5330 \pm 0.0000$ $0.5548 \pm 0.0000$ $0.0168 \pm 0.0000$ $0.8260 \pm 0.0000$ $0.0925 \pm 0.0000$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ \hline 0.5375 \pm 0.0014 \\ \hline 0.0132 \pm 0.0002 \\ \hline 0.8589 \pm 0.0012 \\ \hline 0.0793 \pm 0.0008 \\ \end{array}$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm 0.0102 \end{array}$	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.8260 ± 0.0000 0.925 ± 0.0000 0.3630 ± 0.0000 0.6178 ± 0.0000	$\begin{array}{c} 3.4485 \pm 0.0007 \\ \hline 0.5375 \pm 0.0014 \\ \hline 0.0132 \pm 0.0002 \\ \hline 0.8589 \pm 0.0012 \\ \hline 0.0793 \pm 0.0008 \\ \hline 0.3715 \pm 0.0009 \\ \hline 0.6017 \pm 0.0483 \\ \end{array}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \end{array}$	$\begin{array}{c} 3.4660\pm0.0053\\ 0.5528\pm0.0011\\ 0.0154\pm0.0001\\ 0.8314\pm0.0021\\ 0.0945\pm0.0012\\ 0.3550\pm0.0015\\ 0.4442\pm0.0285\\ 0.2575\pm0.0001 \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ 0.6521 \pm 0.0102 \\ 0.1493 \pm 0.0052 \end{array}$	$\begin{array}{c} 3.5330\pm0.0000 \\ 0.5548\pm0.0000 \\ 0.0168\pm0.0000 \\ 0.8260\pm0.0000 \\ 0.0925\pm0.0000 \\ 0.3630\pm0.0000 \\ 0.6178\pm0.0000 \\ 0.2550\pm0.0000 \end{array}$	$\begin{array}{c} \underline{3.4485} \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ \hline 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ \hline 0.3715 \pm 0.0008 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \end{array}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \end{array}$	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.8260 ± 0.0000 0.0925 ± 0.0000 0.3630 ± 0.0000 0.6178 ± 0.0000 0.2550 ± 0.0000 2.0299 ± 0.0000 <b>0.9082 ± 0.0000</b>	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ 0.9109 \pm 0.0115 \end{array}$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS  MRI  GPI  BHGI  CI  TI  TI  DGI  RLI  CHI  RTI  WGI  WGI	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \end{array}$	$\begin{array}{c} 3.5330\pm0.0000 \\ 0.5548\pm0.0000 \\ 0.0168\pm0.0000 \\ 0.8260\pm0.0000 \\ 0.8250\pm0.0000 \\ 0.6178\pm0.0000 \\ 0.2550\pm0.0000 \\ 0.2550\pm0.0000 \\ 0.299\pm0.0000 \\ 0.9082\pm0.0000 \\ 0.3058\pm0.0000 \\ 0.3058\pm0.0000 \end{array}$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ \hline 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0002 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ \hline 0.9109 \pm 0.0115 \\ 0.3275 \pm 0.0046 \\ \end{array}$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ RTI↓ WGI↑ DI↑ BHI↑	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.03032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0957 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1633 \pm 0.0000 \\ 29.1643 \pm 1.4002 \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.925 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2009 \pm 0.0000 \\ 0.3038 \pm 0.0000 \\ 0.3038 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 42.0479 \pm 0.0000 \end{array}$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ \hline{0.9109 \pm 0.0115} \\ 0.3275 \pm 0.0046 \\ \hline{0.2284 \pm 0.0188} \\ 41.2249 \pm 0.0376 \\ \end{array}$
$ \begin{array}{c} \text{TWL} & 0.3670 \pm 0.0125 & 0.3639 \pm 0.0106 & 0.3467 \pm 0.0008 & 0.3466 \pm 0.0005 & 0.8404 \pm 0.0185 & 0.3628 \pm 0.0000 & \hline 0.3448 \pm 0.0001 \\ \hline \text{ACC} \uparrow & 0.2808 \pm 0.0238 & 0.2849 \pm 0.0223 & 0.2726 \pm 0.0043 & 0.2720 \pm 0.0042 & 0.2874 \pm 0.0136 & 0.2857 \pm 0.0000 & 0.2827 \pm 0.0037 \\ \hline \text{ARI} \uparrow & 0.3006 \pm 0.0334 & 0.3024 \pm 0.0304 & 0.3062 \pm 0.0037 & 0.3140 \pm 0.0054 & 0.3835 \pm 0.0155 \\ \hline \text{ARI} \uparrow & 0.0872 \pm 0.0209 & 0.0893 \pm 0.0204 & 0.0927 \pm 0.0040 & 0.0962 \pm 0.0044 & 0.0917 \pm 0.0162 \\ \hline \textbf{WarpPIE10P} \\ \hline \textbf{FCM} & \textbf{MEC} & \textbf{FSC} & \textbf{2PFCM} & \textbf{BFC} & \textbf{KFCM} & \textbf{CAFCM} \\ \hline \textbf{WGSS} \downarrow & 4.0995 \pm 0.0781 & 5.7692 \pm 0.4605 & 4.5079 \pm 0.2281 & 4.1417 \pm 0.0000 & \times & 4.9026 \pm 0.3384 & \textbf{3.4481} \pm 0.0000 \\ \hline \textbf{MRI} \downarrow & 0.5964 \pm 0.0033 & 0.6727 \pm 0.0235 & 0.6437 \pm 0.0320 & 0.5966 \pm 0.0000 & \times & 0.6351 \pm 0.0209 \\ \hline \textbf{GPL} & 0.0265 \pm 0.0012 & 0.0730 \pm 0.0137 & 0.0457 \pm 0.0130 & 0.0267 \pm 0.0000 & \times & 0.0506 \pm 0.0119 \\ \hline \textbf{O.1181} \pm 0.0020 & 0.0730 \pm 0.0137 & 0.0457 \pm 0.0130 & 0.0267 \pm 0.0000 & \times & 0.0506 \pm 0.0119 \\ \hline \textbf{O.1181} \pm 0.0020 & 0.1350 \pm 0.0258 & 0.1488 \pm 0.0297 & 0.1176 \pm 0.0000 & \times & 0.7501 \pm 0.0406 \\ \hline \textbf{O.3702} \pm 0.0054 & 0.0150 & 0.4923 \pm 0.1518 & 0.3384 \pm 0.0614 & 0.3733 \pm 0.0000 & \times & 0.4473 \pm 0.0371 & 3.0712 \pm 0.0000 \\ \hline \textbf{CH} \uparrow & 0.3719 \pm 0.0054 & 0.4790 \pm 0.0341 & 0.3676 \pm 0.0401 & 0.3733 \pm 0.0000 & \times & 0.4473 \pm 0.0371 & 0.3712 \pm 0.0000 \\ \hline \textbf{CH} \uparrow & 0.3726 \pm 0.0150 & 0.4923 \pm 0.1518 & 0.3384 \pm 0.0614 & 0.3753 \pm 0.0000 & \times & 0.2742 \pm 0.0215 & 0.2575 \pm 0.0000 \\ \hline \textbf{CH} \uparrow & 1.9728 \pm 0.1043 & 2.0753 \pm 0.4907 & 1.2087 \pm 0.1801 & 2.0772 \pm 0.0000 & \times & 0.2580 \pm 0.0438 & 0.2575 \pm 0.0000 \\ \hline \textbf{CH} \uparrow & 1.8281 \pm 0.1085 & 1.1546 \pm 0.0850 & 2.9939 \pm 1.1012 & 1.8725 \pm 0.0000 & \times & 0.2580 \pm 0.0438 & 0.2585 \pm 0.0000 \\ \hline \textbf{DI} \uparrow & 0.1200 \pm 0.0055 & 0.1152 \pm 0.0347 & 0.1021 \pm 0.0166 & 0.1216 \pm 0.0000 & \times & 0.2580 \pm 0.0438 & 0.2081 \pm 0.0000 \\ \hline \textbf{DRI} \downarrow & 0.2045 \pm 0.0056 & 0.4782 \pm 0.0260 & 0.0459 \pm 0.0166 & 0.0216 \pm 0.0000 & \times & 0.2586 \pm 0.0434 & 0.0000 \\ \hline \textbf{DRI} \downarrow & 0.0454 \pm 0.0056 & 0.2782 & 0.0450 & 0.0458 \pm 0.0444 & $	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ PBMI↑	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \\ 15.7846 \pm 1.8157 \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0012 \\ 0.2575 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \end{array}$	$\begin{array}{l} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1638 \pm 0.0002 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2992 \pm 0.0000 \\ 0.9082 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 1.51854 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 1.51854 \pm 0.0000 \\ 0.0001 \\ 0.0$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ \hline 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0006 \\ \hline 0.9109 \pm 0.0115 \\ 0.3275 \pm 0.0046 \\ \hline 0.2284 \pm 0.0188 \\ 41.2249 \pm 0.0376 \\ 15.2649 \pm 0.1076 \\ \end{array}$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ RTI↓ WGf↑ DI↑ BHI↑ PBMI↑ XBI↓ DBI↓	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0065 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \\ 15.7846 \pm 1.8157 \\ 0.0311 \pm 0.0116 \\ 1.6543 \pm 0.0833 \\ \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.03032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0037 \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.0945 \pm 0.0015 \\ 0.3550 \pm 0.0015 \\ 0.3550 \pm 0.0015 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0026 \\ 0.0026 \pm 0.0026 \\ 0.0$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0997 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1653 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.925 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2099 \pm 0.0000 \\ 0.3038 \pm 0.0000 \\ 0.3038 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 42.0479 \pm 0.0000 \\ 15.1854 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.5338 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ \hline 0.5375 \pm 0.0014 \\ \hline 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ \hline 0.0793 \pm 0.0008 \\ \hline 0.0715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ \hline 0.9109 \pm 0.0115 \\ \hline 0.3275 \pm 0.0046 \\ \hline 0.2284 \pm 0.0188 \\ \hline 41.2249 \pm 0.0376 \\ 15.2649 \pm 0.1076 \\ \hline 0.0156 \pm 0.0036 \\ \hline 1.5912 \pm 0.0216 \\ \end{array}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ BHI↑ DI↑ BHI↑ XBI↓ DBI↓ LSSRI↑	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \\ 15.7846 \pm 1.8157 \\ 0.0311 \pm 0.0116 \\ 1.6543 \pm 0.0833 \\ 0.7040 \pm 0.0432 \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0034 \\ 0.7749 \pm 0.0034 \end{array}$	$\begin{array}{c} 3.4660\pm0.0053\\ 0.5528\pm0.0011\\ 0.0154\pm0.0001\\ 0.8314\pm0.0021\\ 0.9945\pm0.0012\\ 0.3550\pm0.0012\\ 0.3550\pm0.0015\\ 0.4442\pm0.0285\\ 0.2575\pm0.0001\\ 2.1717\pm0.0048\\ 0.9807\pm0.0281\\ 0.3035\pm0.0013\\ 0.1662\pm0.0079\\ 39.4854\pm0.3599\\ 15.2328\pm0.0447\\ 0.0281\pm0.0020\\ 1.5787\pm0.0106\\ 0.7755\pm0.0022\\ \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1633 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \\ 1.1803 \pm 0.1009 \\ \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2992 \pm 0.0000 \\ 0.20299 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 1.5338 \pm 0.0000 \\ 0.0164 \pm 0.0000 \\ 0.151854 \pm 0.0000 \\ 0.151854 \pm 0.0000 \\ 0.151854 \pm 0.0000 \\ 0.0164 \pm 0.0000 \\ 0.0164 \pm 0.0000 \\ 0.0165 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ 0.9109 \pm 0.0115 \\ 0.3275 \pm 0.0046 \\ 0.2284 \pm 0.0188 \\ 41.2249 \pm 0.0376 \\ 0.0156 \pm 0.0036 \\ 1.5912 \pm 0.0216 \\ 0.7829 \pm 0.0036 \end{array}$
WarpPIE10P   FCM   MEC   FSC   2PFCM   BFC   KFCM   CAFCM	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ XBI↓ DBI↓ LSSRI↑ TWI↓	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0865 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \\ 15.7846 \pm 1.8157 \\ 0.0311 \pm 0.0116 \\ 1.6543 \pm 0.0833 \\ 0.7040 \pm 0.0432 \\ 0.3639 \pm 0.0106 \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0037 \\ 0.7749 \pm 0.0034 \\ 0.3764 \pm 0.0038 \\ 0.37749 \pm 0.0038 \\ 0.3764 \pm 0.0008 \\ 0.3764 \pm 0.0008 \\ 0.3810 \pm 0.0061 \\ 0.$	$\begin{array}{c} 3.4660\pm0.0053\\ 0.5528\pm0.0011\\ 0.0154\pm0.0001\\ 0.8314\pm0.0021\\ 0.9945\pm0.0012\\ 0.3550\pm0.0012\\ 0.3550\pm0.0015\\ 0.4442\pm0.0285\\ 0.2575\pm0.0001\\ 2.1717\pm0.0048\\ 0.9807\pm0.0281\\ 0.3035\pm0.0013\\ 0.1662\pm0.0079\\ 39.4854\pm0.3599\\ 15.2328\pm0.0447\\ 0.0281\pm0.0020\\ 1.5787\pm0.0166\\ 0.7755\pm0.0022\\ 0.3466\pm0.0005 \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1638 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \\ -1.1803 \pm 0.1009 \\ 0.8404 \pm 0.0185 \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.6178 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 1.500000 \\ 1.51854 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.07080 \pm 0.0000 \\ 0.0163 \pm 0.0000 \\ 0.3628 \pm 0.0000 \\ 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ 0.9109 \pm 0.0115 \\ 0.3275 \pm 0.0046 \\ 0.2284 \pm 0.0188 \\ 41.2249 \pm 0.0376 \\ 0.0156 \pm 0.00036 \\ 1.5912 \pm 0.0216 \\ 0.0156 \pm 0.0036 \\ 0.0156 \pm 0.0036 \\ 0.07829 \pm 0.0003 \\ 0.0184 \pm 0.0018 \\ \end{array}$
WGSS↓	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ PBMI↑ XBI↓ DBI↓ LSSRI↑ TWI↓ ACC↑ NMI↑	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0287 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.0911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \\ 15.7846 \pm 1.8157 \\ 0.0311 \pm 0.0116 \\ 1.6543 \pm 0.0033 \\ 0.0402 \pm 0.033 \\ 0.0329 \pm 0.0106 \\ 0.03024 \pm 0.0304 \\ 0.03024 \pm 0.0304 \\ 0.03024 \pm 0.0304 \\ 0.03024 \pm 0.0304 \\ 0.01106 $	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0337 \\ 0.7749 \pm 0.0034 \\ 0.3467 \pm 0.0034 \\ 0.3467 \pm 0.0034 \\ 0.3467 \pm 0.00043 \\ 0.3467 \pm 0.00043 \\ 0.3062 \pm 0.0043 \\ 0.3062 \pm 0.0043 \\ 0.3062 \pm 0.0003 \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0106 \\ 0.7755 \pm 0.0005 \\ 0.2720 \pm 0.0042 \\ 0.3140 \pm 0.0054 \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1633 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \\ -1.1803 \pm 0.0185 \\ 0.2874 \pm 0.0185 \\ 0.2874 \pm 0.0136 \\ 0.3835 \pm 0.0155 \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.20299 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.36$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ \hline 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ 0.9109 \pm 0.0115 \\ 0.3275 \pm 0.0046 \\ 0.2284 \pm 0.0188 \\ 41.2249 \pm 0.0376 \\ 1.5912 \pm 0.0216 \\ 0.0156 \pm 0.0036 \\ 1.5912 \pm 0.0216 \\ 0.0364 \pm 0.0188 \\ 0.0364 \pm 0.0188 \\ 0.0364 \pm 0.0188 \\ 0.0364 \pm 0.0036 \\ 0.0364 \pm 0.0036 \\ 0.0364 \pm 0.0036 \\ 0.0364 \pm 0.0036 \\ 0.0362 \pm 0.0036 \\ 0.0362 \pm 0.0036 \\ 0.0362 \pm 0.0036 \\ 0.0362 \pm 0.0037 \\ 0.3112 \pm 0.0037 \\ 0.3112 \pm 0.0037 \\ 0.0158 \pm 0.00018 \\ 0.00018 \pm 0.000$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ PBMI↑ XBI↓ DBI↓ LSSRI↑ TWI↓ ACC↑ NMI↑ ARI↑	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0240 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.0911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0238 \\ 0.3006 \pm 0.0238 \\ 0.3006 \pm 0.0238 \\ 0.3006 \pm 0.0239 \\ 0.3007 \pm 0.0209 \\ \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \\ 15.7846 \pm 1.8157 \\ 0.0311 \pm 0.0116 \\ 1.6543 \pm 0.0833 \\ 0.7040 \pm 0.0432 \\ 0.3639 \pm 0.0106 \\ 0.2849 \pm 0.0223 \\ 0.3024 \pm 0.0304 \\ 0.0893 \pm 0.0204 \\ \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0337 \\ 0.7749 \pm 0.0034 \\ 0.3467 \pm 0.0008 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0043 \\ 0.3062 \pm 0.0040 \\ 0.3062 \pm 0.0040 \\ \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0106 \\ 0.7755 \pm 0.0005 \\ 0.2720 \pm 0.0042 \\ 0.3140 \pm 0.0054 \\ 0.0962 \pm 0.0044 \\ 0.0962 \pm 0.0044 \\ \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1633 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \\ -1.1803 \pm 0.0090 \\ 0.8404 \pm 0.0185 \\ \textbf{0.0335} \pm 0.0136 \\ \textbf{0.0345} \pm 0.0090 \\ 0.8404 \pm 0.0185 \\ \textbf{0.2874} \pm 0.0136 \\ \textbf{0.3835} \pm \textbf{0.0155} \\ \textbf{0.0917} \pm 0.0162 \\ \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.3618 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.000$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ 0.9109 \pm 0.0115 \\ 0.3275 \pm 0.0046 \\ 0.2284 \pm 0.0188 \\ 41.2249 \pm 0.0376 \\ 15.2649 \pm 0.1076 \\ 0.0156 \pm 0.0036 \\ 1.5912 \pm 0.0216 \\ 0.7829 \pm 0.0036 \\ 0.2827 \pm 0.0031 \\ 0.3448 \pm 0.0001 \\ 0.2827 \pm 0.0051 \\ 0.0932 \pm 0.0017 \\ \end{array}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ PBMI↑ XBI↓ DBI↓ LSSRI↑ TWI↓ ACC↑ NMI↑ ARI↑ WarpPIEIOP	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0240 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.0911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0209 \\ \hline \text{FCM} \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \\ 15.7846 \pm 1.8157 \\ 0.0311 \pm 0.0116 \\ 1.6543 \pm 0.0033 \\ 0.0402 \pm 0.0034 \\ 0.0893 \pm 0.0204 \\ \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0337 \\ 0.7749 \pm 0.0034 \\ 0.3467 \pm 0.0008 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0040 \\ 0.3062 \pm 0.0040 \\ FSC \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0106 \\ 0.7755 \pm 0.0005 \\ 0.2720 \pm 0.0042 \\ 0.3140 \pm 0.0054 \\ 0.0962 \pm 0.0044 \\ 0.0962 \pm 0.0044 \\ 2PFCM \end{array}$	$\begin{array}{l} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1638 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \\ -1.1803 \pm 0.1009 \\ 0.8404 \pm 0.0136 \\ \textbf{0.3835} \pm \textbf{0.0155} \\ \textbf{0.917} \pm 0.0162 \\ \textbf{BFC} \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.6178 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.20299 \pm 0.0000 \\ 0.20299 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.3618 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ \hline 0.3617 \pm 0.$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ 0.9109 \pm 0.0115 \\ 0.3275 \pm 0.0046 \\ 0.2284 \pm 0.0188 \\ 41.2249 \pm 0.0376 \\ 15.2649 \pm 0.1076 \\ 0.0156 \pm 0.0036 \\ 1.5912 \pm 0.0216 \\ 0.7829 \pm 0.0036 \\ 0.3448 \pm 0.0001 \\ 0.2827 \pm 0.0037 \\ 0.3112 \pm 0.0051 \\ 0.0932 \pm 0.0017 \\ CAFCM \end{array}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$	WGSS\$\J MRI\J GPI\J BHGI\T CI\J TI\T DGI\T RLI\T CHI\T RTI\J WGI\T DI\T BHII\T PBMI\T XBI\J LSSRI\T TWI\J ACC\T NMI\T ARI\T WarpPIE10P WGSS\J	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0240 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0209 \\ \hline{FCM} \\ 4.0995 \pm 0.0781 \\ \hline \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \\ 15.7846 \pm 1.8157 \\ 0.0311 \pm 0.0116 \\ 1.6543 \pm 0.0833 \\ 0.7040 \pm 0.0432 \\ 0.3639 \pm 0.0106 \\ 0.2849 \pm 0.0223 \\ 0.3024 \pm 0.0304 \\ 0.0893 \pm 0.0204 \\ \text{MEC} \\ \hline \\ 5.7692 \pm 0.4605 \\ \hline \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39,6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0337 \\ 0.7749 \pm 0.0034 \\ 0.3467 \pm 0.0008 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0040 \\ 0.3062 \pm 0.0040 \\ FSC \\ 4.5079 \pm 0.2281 \\ \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0106 \\ 0.7755 \pm 0.0005 \\ 0.2720 \pm 0.0042 \\ 0.3140 \pm 0.0054 \\ 0.0962 \pm 0.0044 \\ 0.0962 \pm 0.0044 \\ 0.9962 \pm 0.0044 \\ 0.9962 \pm 0.0044 \\ 0.9962 \pm 0.0044 \\ 0.9962 \pm 0.0004 \\ 0.9962 \pm 0.0000 \\ 0.2720 \pm 0.0004 \\ 0.9962 \pm 0.0044 \\ 0.9962 \pm 0.0004 \\ 0.9962 \pm 0.0000 \\ 0.1417 \pm 0.0000 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.00001 \\ 0.00001 \\ 0.00001 \\ 0.000001 \\ 0.00001 \\ 0.000001 \\ 0.00001 \\ 0.000001 \\ 0.00001 \\ 0.00001 \\ 0.000001 \\ 0.000001 \\ 0.00001 \\ 0.00001 \\ 0.00001 \\ 0.000001 \\ 0.00001 \\ 0.000001 \\ 0.00001 $	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1633 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \\ -1.1803 \pm 0.0009 \\ 0.8404 \pm 0.0185 \\ \textbf{0.2874} \pm 0.0136 \\ \textbf{0.3835} \pm 0.0136 \\ \textbf{0.3835} \pm 0.0155 \\ 0.0917 \pm 0.0162 \\ \textbf{BFC} \\ \times \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.03618 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.36$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.8589 \pm 0.0012 \\ 0.8589 \pm 0.0008 \\ 0.3715 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ 0.9109 \pm 0.0115 \\ 0.3275 \pm 0.0046 \\ 0.2284 \pm 0.0188 \\ 41.2249 \pm 0.0376 \\ 15.2649 \pm 0.1076 \\ 0.0156 \pm 0.0036 \\ 1.5912 \pm 0.0216 \\ 0.7829 \pm 0.0003 \\ 0.3448 \pm 0.0001 \\ 0.2827 \pm 0.0037 \\ 0.3112 \pm 0.0051 \\ 0.0932 \pm 0.0017 \\ \text{CAFCM} \\ \hline \end{tabular}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ PBMI↑ XBI↓ DBI↓ LSSRI↑ TWI↓ ACC↑ NMI↑ ARI↑ WarpPIEIOP	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0136 \\ \end{array}$	$\begin{array}{c} 3.6396 \pm 0.1102 \\ 0.5549 \pm 0.0114 \\ 0.0168 \pm 0.0025 \\ 0.8398 \pm 0.0231 \\ 0.0867 \pm 0.0113 \\ 0.3849 \pm 0.0232 \\ 0.4596 \pm 0.0865 \\ 0.2548 \pm 0.0019 \\ 2.0236 \pm 0.0865 \\ 0.0548 \pm 0.0019 \\ 2.0236 \pm 0.0852 \\ 1.0997 \pm 0.1915 \\ 0.3023 \pm 0.0167 \\ 0.1571 \pm 0.0299 \\ 41.8175 \pm 1.4292 \\ 15.7846 \pm 1.8157 \\ 0.0311 \pm 0.0116 \\ 1.6543 \pm 0.0833 \\ 0.7040 \pm 0.0432 \\ 0.3639 \pm 0.0106 \\ 0.2849 \pm 0.0223 \\ 0.3024 \pm 0.0304 \\ 0.0893 \pm 0.0204 \\ \\ \text{MEC} \\ \\ \hline 5.7692 \pm 0.4605 \\ 0.6727 \pm 0.0235 \\ \hline \end{array}$	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0037 \\ 0.7749 \pm 0.0034 \\ 0.30467 \pm 0.0034 \\ 0.3062 \pm 0.0037 \\ 0.9275 \pm 0.0040 \\ 0.3726 \pm 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.927 \pm 0.0040 \\ \end{array}$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0106 \\ 0.7755 \pm 0.0022 \\ 0.3466 \pm 0.0005 \\ 0.2720 \pm 0.0042 \\ 0.3140 \pm 0.0054 \\ 0.0962 \pm 0.0044 \\ \hline 2PFCM \\ 4.1417 \pm 0.0000 \\ 0.5966 \pm 0.0000 \end{array}$	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1633 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \\ -1.1803 \pm 0.1009 \\ 0.8404 \pm 0.0185 \\ \textbf{0.2874} \pm \textbf{0.0136} \\ \textbf{0.3835} \pm \textbf{0.0155} \\ \textbf{0.2874} \pm \textbf{0.0136} \\ \textbf{0.3835} \pm \textbf{0.0155} \\ \textbf{0.917} \pm \textbf{0.0162} \\ \textbf{BFC} \\ \times \\ \times \end{array}$	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.6178 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 42.0479 \pm 0.0000 \\ 1.51854 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.7080 \pm 0.0000 \\ 0.3628 \pm 0.0000 \\ 0.3628 \pm 0.0000 \\ 0.3628 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.3615 \pm 0.0000 \\ 0.3635 \pm 0.0000 \\ 0.3615 \pm 0.0000 \\ 0.3$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0006 \\ 0.9109 \pm 0.0115 \\ 0.02575 \pm 0.0006 \\ 0.9109 \pm 0.0115 \\ 0.0275 \pm 0.0046 \\ 0.2284 \pm 0.0188 \\ 41.2249 \pm 0.0376 \\ 0.0156 \pm 0.0036 \\ 1.5912 \pm 0.0216 \\ 0.0156 \pm 0.0036 \\ 0.2875 \pm 0.0046 \\ 0.0184 \pm 0.0188 \\ 0.0184 \pm 0.0036 \\ 0.0184 \pm 0.0036 \\ 0.0185 \pm 0.0036 \\ 0.0182 \pm 0.0017 \\ 0.0182 \pm 0.0017 \\ 0.0932 \pm 0.0017 \\ 0.0932 \pm 0.0017 \\ 0.0932 \pm 0.0017 \\ 0.0932 \pm 0.0001 \\ 0.8481 \pm 0.0000 \\ 0.5368 \pm 0.0000 \\ 0.5368 \pm 0.0000 \\ 0.00012 \pm 0.00014 \\ 0.00012 \pm 0.00014$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS\$\J MRI\J GPI\J BHGI\T CI\J TI\T DGI\T PBHI\T NI\J WGI\T DI\T PBHI\T PBHI\T XBI\J LSSRI\T TWI\J ACC\T NMI\T ARI\T WarpPIEIOP WGSS\J MRI\J GPI\J BHGI\T BHGI\T BHGI\T BHGI\T WI BHGI\T BHGI\T BHGI\T BHGI\T BHGI\T BHGI\T BHGI\T BHGI\T	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0224 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0228 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0209 \\ \hline FCM \\ \hline 4.0995 \pm 0.0781 \\ 0.0926 \pm 0.0013 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0015 \\ \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 1.5746 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0166 0.2849 ± 0.0223 0.3024 ± 0.0304 0.0893 ± 0.0204 MEC 5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \pm 0.5807 \\ 15.4603 \pm 0.0381 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0331 \\ 0.0061 \pm 0.00061 \\ 0.5872 \pm 0.0038 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.7749 \pm 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.0927 \pm 0.0040 \\ \hline FSC \\ 4.5079 \pm 0.2281 \\ 0.6437 \pm 0.0320 \\ 0.0457 \pm 0.0130 \\ 0.06857 \pm 0.0067 \\ \end{array}$	3.4660 ± 0.0053 0.5528 ± 0.0011 0.0154 ± 0.0001 0.8314 ± 0.0021 0.9945 ± 0.0012 0.3550 ± 0.0015 0.4442 ± 0.0285 0.2575 ± 0.0001 2.1717 ± 0.0048 0.9807 ± 0.0281 0.3035 ± 0.0013 0.1662 ± 0.0079 39.4854 ± 0.3599 15.2328 ± 0.0447 0.0281 ± 0.0020 1.5787 ± 0.0106 0.7755 ± 0.0022 0.3466 ± 0.0005 0.2720 ± 0.0042 0.3140 ± 0.0054 0.0962 ± 0.0044 2PFCM 4.1417 ± 0.0000 0.5966 ± 0.0000 0.0267 ± 0.0000 0.7723 ± 0.0000 0.7723 ± 0.0000 0.0267 ± 0.0000	5.4244 ± 0.1375  1.0070 ± 0.0072 0.2305 ± 0.0077 -0.0002 ± 0.0140 0.4955 ± 0.0101 -0.0002 ± 0.0097  0.6521 ± 0.0102 0.1493 ± 0.0052 0.3086 ± 0.0273 3.2132 ± 0.6500 0.1608 ± 0.0138 0.1653 ± 0.0000 29.1643 ± 1.4002 7.4846 ± 0.2832 0.0161 ± 0.0054 1.6824 ± 0.0650 -1.1803 ± 0.0090 0.8404 ± 0.0185 0.2874 ± 0.0136 0.3835 ± 0.0155 0.0917 ± 0.0162  BFC  × × ×	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.8260 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2952 ± 0.0000 0.20299 ± 0.0000 0.20299 ± 0.0000 0.3058 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.0146 ± 0.0000 0.7080 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3613 ± 0.0000 0.3614 ± 0.0000 0.3613 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3615 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.0012 0.8589 ± 0.0008 0.3715 ± 0.0009 0.6017 ± 0.0483 0.2576 ± 0.0002 2.1877 ± 0.0006 0.9109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 0.156 ± 0.0036 1.5912 ± 0.0216 0.7829 ± 0.0016 0.7829 ± 0.0016 0.7829 ± 0.0017 0.8594 ± 0.0017 CAFCM 3.4481 ± 0.0000 0.5368 ± 0.0000 0.8594 ± 0.0000 0.8594 ± 0.0000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS\$\J MRI\\ GPI\  BHGI\\ CI\  TI\\ DGI\\ TI\\ CHI\\ RII\  CHI\\ RII\  DI\\ BHI\\ PBMI\\ XBI\\ DBI\\ LSSRI\\ TWI\\ ACC\\ NMI\\\ ARI\\ WarpPIE10P WGSS\$\J MRI\\ GPI\\ GPI\\ GPI\\ GPI\\ GPI\\	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0204 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0303 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0135 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0045 \\ 0.1181 \pm 0.0020 \\ \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0865 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 15.7846 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0106 0.2849 ± 0.0223 0.3024 ± 0.0304 MEC 5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0337 \\ 0.7749 \pm 0.0034 \\ 0.30467 \pm 0.0034 \\ 0.3062 \pm 0.00061 \\ 1.5892 \pm 0.0337 \\ 0.7749 \pm 0.0034 \\ 0.3062 \pm 0.0037 \\ 0.0927 \pm 0.0040 \\ \hline FSC \\ 4.5079 \pm 0.2281 \\ 0.6437 \pm 0.0320 \\ 0.0457 \pm 0.0130 \\ 0.6857 \pm 0.0667 \\ 0.1488 \pm 0.0297 \\ \end{array}$	3.4660 ± 0.0053 0.5528 ± 0.0011 0.0154 ± 0.0001 0.8314 ± 0.0021 0.945 ± 0.0012 0.3550 ± 0.0012 0.2575 ± 0.0001 2.1717 ± 0.0048 0.9807 ± 0.0281 0.3035 ± 0.0013 0.1662 ± 0.0079 39.4854 ± 0.3599 15.2328 ± 0.0447 0.0281 ± 0.0020 1.5787 ± 0.0106 0.7755 ± 0.0022 0.3466 ± 0.0079 0.2720 ± 0.0042 0.3140 ± 0.0054 0.0962 ± 0.0044  2PFCM 4.1417 ± 0.0000 0.5966 ± 0.0000 0.0267 ± 0.0000 0.7723 ± 0.0000 0.7723 ± 0.0000 0.7723 ± 0.0000	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1638 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \\ -1.1803 \pm 0.0009 \\ 0.8404 \pm 0.0135 \\ \textbf{0.2874} \pm \textbf{0.0136} \\ \textbf{0.3835} \pm \textbf{0.0155} \\ \textbf{0.2874} \pm \textbf{0.0136} \\ \textbf{0.3835} \pm \textbf{0.0155} \\ \textbf{0.917} \pm \textbf{0.0162} \\ \textbf{BFC} \\ \times \\ \end{array}$	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.0256 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2029 ± 0.0000 0.3058 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.1164 ± 0.0000 0.15338 ± 0.0000 0.15338 ± 0.0000 0.3628 ± 0.0000 0.3628 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3615 ± 0.0000 0.3611 ± 0.0000 0.1117 ± 0.0000 0.5050 ± 0.3384 0.6351 ± 0.0209 0.0506 ± 0.0119 0.7501 ± 0.0406 0.1118 ± 0.0185	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.0012 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 2.1877 \pm 0.0006 \\ 0.9109 \pm 0.0115 \\ 0.3275 \pm 0.0046 \\ 0.2284 \pm 0.0188 \\ 41.2249 \pm 0.0188 \\ 41.2249 \pm 0.036 \\ 1.5912 \pm 0.0216 \\ 0.7829 \pm 0.0003 \\ 0.3448 \pm 0.0001 \\ 0.2827 \pm 0.0037 \\ 0.3112 \pm 0.0051 \\ 0.0932 \pm 0.0017 \\ CAFCM \\ \hline \hline {\bf 3.4481} \pm 0.0000 \\ {\bf 0.5368} \pm 0.0000 \\ {\bf 0.0131} \pm 0.0000 \\ {\bf 0.8594} \pm 0.0000 \\ 0.8594 \pm 0.0000 \\ 0.0788 \pm 0.0000 \\ \hline \hline \end{tabular}$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS\$\J MRI\J GPI\J BHGI\T CI\J TI\T DGI\T RLI\T RII\J WGI\T DI\T BHII\T PBMI\T TWI\J ACC\T TWI\J ACC\T WATPPIE10P WGSS\J MRI\J GPI\J BHGI\T CI\J TI\T TI\T CI\J TI\T TI\T TI\T TI\T TI\T TI\T TI\T T	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0244 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0228 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0299 \\ \hline FCM \\ \hline 4.0995 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0045 \\ 0.1181 \pm 0.0020 \\ 0.3719 \pm 0.0054 \\ 0.03726 \pm 0.0054 \\ 0.03726 \pm 0.0054 \\ 0.03726 \pm 0.0054 \\ 0.03726 \pm 0.0150 \\ \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 1.5746 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0166 0.2849 ± 0.0223 0.3024 ± 0.0304 0.0893 ± 0.0204 MEC 5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.1350 ± 0.0341 0.1350 ± 0.0341	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.0381 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0331 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0337 \\ 0.7749 \pm 0.0034 \\ 0.3467 \pm 0.0008 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.0927 \pm 0.0040 \\ \hline FSC \\ 4.5079 \pm 0.2281 \\ 0.6437 \pm 0.0130 \\ 0.0857 \pm 0.0667 \\ 0.1488 \pm 0.0297 \\ 0.3676 \pm 0.0401 \\ 0.3584 \pm 0.0061 \\ \end{array}$	3.4660 ± 0.0053 0.5528 ± 0.0011 0.0154 ± 0.0001 0.8314 ± 0.0021 0.9945 ± 0.0012 0.3550 ± 0.0015 0.4442 ± 0.0285 0.2575 ± 0.0001 2.1717 ± 0.0048 0.9807 ± 0.0281 0.3035 ± 0.0013 0.1662 ± 0.0079 39.4854 ± 0.3599 15.2328 ± 0.0447 0.0281 ± 0.0020 1.5787 ± 0.0106 0.7755 ± 0.0022 0.3466 ± 0.0059 0.2720 ± 0.0042 0.3140 ± 0.0054 0.0962 ± 0.0044 2PFCM 4.1417 ± 0.0000 0.0267 ± 0.0000 0.0267 ± 0.0000 0.1776 ± 0.0000 0.1776 ± 0.0000 0.1776 ± 0.0000 0.17723 ± 0.0000 0.3753 ± 0.0000	5.4244 ± 0.1375  1.0070 ± 0.0072 0.2305 ± 0.0077 -0.0002 ± 0.0140 0.4955 ± 0.0101 -0.0002 ± 0.0097  0.6521 ± 0.0102 0.1493 ± 0.0052 0.3086 ± 0.0273 3.2132 ± 0.6500 0.1608 ± 0.0138 0.1653 ± 0.0000 29.1643 ± 1.4002 7.4846 ± 0.2832 0.0161 ± 0.0004 1.6824 ± 0.0650 -1.1803 ± 0.009 0.8404 ± 0.0185 0.2874 ± 0.0136 0.3835 ± 0.0155 0.0917 ± 0.0162  BFC  ×  ×  ×  ×  ×  ×	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.8260 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2029 ± 0.0000 0.2029 ± 0.0000 0.3058 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.1146 ± 0.0000 0.7080 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3615 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.0012 0.8589 ± 0.0008 0.3715 ± 0.0009 0.6017 ± 0.0483 0.2576 ± 0.0002 2.1877 ± 0.0006 0.9109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 0.156 ± 0.0036 1.5912 ± 0.0216 0.7829 ± 0.0016 0.7829 ± 0.0017 0.848 ± 0.0017 0.848 ± 0.0017 0.8594 ± 0.0017 CAFCM  3.4481 ± 0.0000 0.8594 ± 0.0000 0.8594 ± 0.0000 0.8594 ± 0.0000 0.8594 ± 0.0000 0.8594 ± 0.0000 0.8594 ± 0.0000 0.0131 ± 0.0000 0.8594 ± 0.0000 0.01312 ± 0.0000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0224 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0099 \\ \text{FCM} \\ 4.0995 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0045 \\ 0.1181 \pm 0.0020 \\ 0.3719 \pm 0.0054 \\ 0.3726 \pm 0.0150 \\ 0.2672 \pm 0.0069 \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 15.7846 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0106 0.2849 ± 0.0223 0.3024 ± 0.0304 MEC  5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0325	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0337 \\ 0.7749 \pm 0.0034 \\ 0.3072 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 0.1619 \pm 0.0106 \\ 0.1619 \pm 0.0106 \\ 0.1619 \pm 0.0001 \\ 0.301 \pm 0.0061 \\ 0.5807 \pm 0.0001 \\ 0.5807 \pm 0.0001 \\ 0.7749 \pm 0.0034 \\ 0.3467 \pm 0.0008 \\ 0.2726 \pm 0.00037 \\ 0.0927 \pm 0.0040 \\ \hline FSC \\ 4.5079 \pm 0.2281 \\ 0.6437 \pm 0.0320 \\ 0.0457 \pm 0.0130 \\ 0.6857 \pm 0.0667 \\ 0.1488 \pm 0.0297 \\ 0.3584 \pm 0.0614 \\ 0.2321 \pm 0.0005 \end{array}$	3.4660 ± 0.0053 0.5528 ± 0.0011 0.0154 ± 0.0001 0.8314 ± 0.0021 0.0945 ± 0.0012 0.3550 ± 0.0012 0.2575 ± 0.0001 2.1717 ± 0.0048 0.9807 ± 0.0281 0.3035 ± 0.0013 0.1662 ± 0.0079 39.4854 ± 0.3599 15.2328 ± 0.0447 0.0281 ± 0.0020 1.5787 ± 0.0106 0.7755 ± 0.0022 0.3466 ± 0.005 0.2720 ± 0.0042 0.3140 ± 0.0054 0.9962 ± 0.0044  2PFCM 4.1417 ± 0.0000 0.5966 ± 0.0000 0.0267 ± 0.0000 0.7735 ± 0.0000 0.7735 ± 0.0000 0.7735 ± 0.0000 0.7735 ± 0.0000 0.7755 ± 0.0022 0.0044	$\begin{array}{c} 5.4244 \pm 0.1375 \\ 1.0070 \pm 0.0072 \\ 0.2305 \pm 0.0077 \\ -0.0002 \pm 0.0140 \\ 0.4955 \pm 0.0101 \\ -0.0002 \pm 0.0097 \\ \textbf{0.6521} \pm \textbf{0.0102} \\ 0.1493 \pm 0.0052 \\ 0.3086 \pm 0.0273 \\ 3.2132 \pm 0.6500 \\ 0.1608 \pm 0.0138 \\ 0.1638 \pm 0.0000 \\ 29.1643 \pm 1.4002 \\ 7.4846 \pm 0.2832 \\ 0.0161 \pm 0.0004 \\ 1.6824 \pm 0.0650 \\ -1.1803 \pm 0.0000 \\ 0.8404 \pm 0.0135 \\ \textbf{0.2874} \pm \textbf{0.0136} \\ \textbf{0.3835} \pm \textbf{0.0105} \\ \textbf{0.2874} \pm \textbf{0.0136} \\ \textbf{0.3835} \pm \textbf{0.0155} \\ \textbf{0.9917} \pm 0.0162 \\ \textbf{BFC} \\ \times \\ $	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.0256 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2029 ± 0.0000 0.2029 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.10146 ± 0.0000 0.1146 ± 0.0000 0.3638 ± 0.0000 0.3638 ± 0.0000 0.3638 ± 0.0000 0.3638 ± 0.0000 0.3638 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.1117 ± 0.0000 0.1118 ± 0.0000 0.1118 ± 0.0000 0.114 ± 0.0000 0.114 ± 0.0000 0.114 ± 0.0000 0.114 ± 0.0000 0.114 ± 0.0000 0.114 ± 0.0000 0.114 ± 0.0000 0.114 ± 0.0000 0.114 ± 0.0000	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.0012 0.0793 ± 0.0008 0.3715 ± 0.0008 0.3715 ± 0.0008 0.2576 ± 0.0002 2.1877 ± 0.0006 0.9109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 15.2649 ± 0.0156 ± 0.0036 1.5912 ± 0.016 0.7829 ± 0.0003 0.3448 ± 0.0001 0.2827 ± 0.0037 0.3112 ± 0.0017 CAFCM 3.4481 ± 0.0000 0.8594 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000
$\begin{array}{l l l l l l l l l l l l l l l l l l l $	WGSS\$\J MRI\J GPI\J BHGI\T CI\J TI\r DGI\r RLI\r RHI\r RHI\r WGI\r DI\r BHII\r BHII\r PBMI\r TWI\J ACC\r MMI\r ARI\r WarpPIE10P WGSS\J MRI\J BHGI\r CI\J TI\r TI\r TI\r TI\r TI\r TI\r TI\r TI\r	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0224 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.00872 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.0915 \pm 0.0913 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0209 \\ \hline {FCM} \\ 4.0995 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0045 \\ 0.1181 \pm 0.0020 \\ 0.3719 \pm 0.0054 \\ 0.13719 \pm 0.0054 \\ 0.13719 \pm 0.0054 \\ 0.13726 \pm 0.1043 \\ 1.8281 \pm 0.1045 \\ 1.8281 \pm 0.1043 \\ 1.8281 \pm 0.1085 \\ 1.9281 \pm 0.1043 \\ 1.9281 $	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 41.8175 ± 1.4292 15.7846 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0106 0.2849 ± 0.0223 0.3024 ± 0.0304 0.0893 ± 0.0204  MEC  5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.19253 ± 0.1518 0.3029 ± 0.0253 2.0753 ± 0.4907	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0005 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.0381 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0331 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0034 \\ 0.3467 \pm 0.0034 \\ 0.3467 \pm 0.0034 \\ 0.3467 \pm 0.0034 \\ 0.3726 \pm 0.0040 \\ 0.2726 \pm 0.0040 \\ \hline FSC \\ 4.5079 \pm 0.2281 \\ 0.6437 \pm 0.0320 \\ 0.0457 \pm 0.0130 \\ 0.0587 \pm 0.0616 \\ 0.0588 \pm 0.00616 \\ 0.0588 \pm 0.00616$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0106 \\ 0.07755 \pm 0.0022 \\ 0.3466 \pm 0.0079 \\ 0.2720 \pm 0.0042 \\ 0.3140 \pm 0.0054 \\ 0.0962 \pm 0.0044 \\ \hline \end{tabular}$	5.4244 ± 0.1375  1.0070 ± 0.0072 0.2305 ± 0.0077 -0.0002 ± 0.0140 0.4955 ± 0.0101 -0.0002 ± 0.0102 0.1493 ± 0.0052 0.3086 ± 0.0273 3.2132 ± 0.6500 0.1608 ± 0.0138 0.1653 ± 0.0000 29.1643 ± 1.4002 7.4846 ± 0.2832 0.0161 ± 0.0832 0.0161 ± 0.0832 0.0161 ± 0.0835 0.0004 0.8404 ± 0.0185 0.2874 ± 0.0136 0.3835 ± 0.0155 0.0917 ± 0.0162  BFC  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.8260 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.0146 \pm 0.0000 \\ 0.7080 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.1117 \pm 0.0000 \\ \hline \textbf{KFCM} \\ 4.9026 \pm 0.3384 \\ 0.6351 \pm 0.0209 \\ 0.0506 \pm 0.0119 \\ 0.7501 \pm 0.0406 \\ 0.1118 \pm 0.0185 \\ 0.4743 \pm 0.0371 \\ 0.4407 \pm 0.0981 \\ 0.2742 \pm 0.0215 \\ 1.7966 \pm 0.3492 \\ 2.2566 \pm 1.4066 \\ \end{array}$	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.0012 0.8589 ± 0.0008 0.3715 ± 0.0009 0.6017 ± 0.0483 0.2576 ± 0.0006 0.2576 ± 0.0006 0.9109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 0.156 ± 0.0036 1.52649 ± 0.1076 0.0156 ± 0.0036 1.5912 ± 0.0216 0.7829 ± 0.003 0.3448 ± 0.001 0.2827 ± 0.0037 0.3112 ± 0.0051 0.932 ± 0.0017  CAFCM  3.4481 ± 0.0000 0.5368 ± 0.0000 0.131 ± 0.0000 0.8594 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0158 ± 0.0000 0.0156 ± 0.0000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS\$\J MRI\J GPI\J BHGIT CI\J TIT DGIT RILIT CHIT RITIJ DBI\J NBIIT XBI\J DBI\J LSSRIT TWI\J ACCT NMIT ARIT WGSS\J MRI\J GPI\J BHGIT CI\J TIT DGIT RITIJ CHIT RITIJ ACCT NMIT ARIT WI WGSS\J MRI\J GPI\J BHGIT CI\J TIT DGIT RIIT CHIT RIIT CHIT RIIT CHIT RIIT WGGT	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0224 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.033 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0135 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0009 \\ \hline {PCM} \\ 4.0995 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0045 \\ 0.1181 \pm 0.0020 \\ 0.3719 \pm 0.0054 \\ 0.3726 \pm 0.0150 \\ 0.2672 \pm 0.0069 \\ 1.9728 \pm 0.1043 \\ 1.8281 \pm 0.1085 \\ 0.2094 \pm 0.0058 \\ \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0865 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 15.7846 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0106 0.2849 ± 0.023 0.3024 ± 0.0304 MEC  5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.4923 ± 0.1518 0.3029 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0258 0.7933 ± 0.4907 1.1546 ± 0.6850	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0331 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0337 \\ 0.7749 \pm 0.0034 \\ 0.3062 \pm 0.0037 \\ 0.9275 \pm 0.0040 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.0927 \pm 0.0040 \\ \hline \text{FSC} \\ 4.5079 \pm 0.2281 \\ 0.6437 \pm 0.0320 \\ 0.0457 \pm 0.0130 \\ 0.6857 \pm 0.0667 \\ 0.1488 \pm 0.0297 \\ 0.3567 \pm 0.0667 \\ 0.3584 \pm 0.0614 \\ 0.2321 \pm 0.0095 \\ 1.2087 \pm 0.1801 \\ 2.9239 \pm 1.1012 \\ 0.1626 \pm 0.0444 \\ 0.1626 \pm 0$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0106 \\ 0.7755 \pm 0.0022 \\ 0.3466 \pm 0.0079 \\ 0.2720 \pm 0.0042 \\ 0.3140 \pm 0.005 \\ 0.2720 \pm 0.0044 \\ 0.3140 \pm 0.0054 \\ 0.962 \pm 0.0044 \\ 0.2723 \pm 0.0000 \\ 0.0267 \pm 0.0000 \\ 0.3733 \pm 0.0000 \\ 0.3733 \pm 0.0000 \\ 0.2737 \pm 0.0000 \\ 0.2772 \pm 0.0000 \\ 0.2737 \pm 0.0000 \\ 0.2108 \pm 0.0000 \\ 0.210$	5.4244 ± 0.1375  1.0070 ± 0.0072  0.2305 ± 0.0077  -0.0002 ± 0.0140  0.4955 ± 0.0101  -0.0002 ± 0.0097 <b>0.6521</b> ± <b>0.0102</b> 0.1493 ± 0.0052  0.3086 ± 0.0273  3.2132 ± 0.6500  0.1608 ± 0.0138  0.1653 ± 0.0000  29.1643 ± 1.4002  7.4846 ± 0.2832  0.0161 ± 0.0044  1.6824 ± 0.0650  -1.1803 ± 0.1009  0.8404 ± 0.0185 <b>0.2874</b> ± <b>0.0136 0.3835</b> ± <b>0.0155</b> 0.0917 ± 0.0162  BFC  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.0256 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2029 ± 0.0000 0.2029 ± 0.0000 0.3058 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.3058 ± 0.0000 0.10146 ± 0.0000 0.1146 ± 0.0000 0.3538 ± 0.0000 0.3628 ± 0.0000 0.3628 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.1117 ± 0.0000 0.1118 ± 0.0185 0.4743 ± 0.0371 0.4407 ± 0.0981 0.4742 ± 0.0215 1.7966 ± 0.33492 2.2566 ± 1.4066 0.2580 ± 0.04308	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.0012 0.0793 ± 0.0008 0.3715 ± 0.0009 0.6017 ± 0.0483 0.2576 ± 0.0002 2.1877 ± 0.0006 0.9109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 15.2649 ± 0.0156 0.156 ± 0.0036 1.5912 ± 0.016 0.7829 ± 0.0003 0.3448 ± 0.001 0.2827 ± 0.0037 0.3112 ± 0.0051 0.0932 ± 0.0017 CAFCM 3.4481 ± 0.0000 0.131 ± 0.0000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS\$\J MRI\  GPI\  BHGI\  CI\  TI\  DGI\  RLI\  RHI\  RHI\  RHI\  RHI\  RHI\  RHI\  RHI\  RHI\  RHI\  BHII\  RHI\  BHII\  RHI\  RHI\  BHII\  RHI\  RHI\  ARI\  WarpPIE10P WGSS\$\J MRI\  GPI\  MRI\  GPI\  CI\  TI\  CI\  TI\  CI\  TI\  RLI\  CH\  RTI\  WGI\  RHI\  WGI\  BHI\  DI\	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0224 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 1.48197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.0911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0039 \\ 0.3065 \pm 0.0012 \\ 0.2808 \pm 0.0209 \\ \hline {FCM} \\ 4.0995 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0045 \\ 0.1181 \pm 0.0020 \\ 0.3726 \pm 0.0150 \\ 0.03726 \pm 0.0150 \\ 0.2672 \pm 0.0069 \\ 1.9728 \pm 0.1043 \\ 1.8281 \pm 0.1085 \\ 0.2094 \pm 0.0058 \\ 0.1200 \pm 0.0055 \\ 0.1201 \pm 0.0058 \\ 0.1202 \pm 0.1050 \\ 0.1203 \pm 1.7305 \\ 0.1204 \pm 0.0058 \\ 0.1204 \pm 0$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 41.8175 ± 1.4292 3.639 ± 0.0164 0.0843 ± 0.083 0.7040 ± 0.0432 0.3639 ± 0.0106 0.2849 ± 0.0223 0.3024 ± 0.0304 0.0893 ± 0.0204  MEC 5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0253 2.0753 ± 0.4907 1.1546 ± 0.6850 0.2998 ± 0.0599 0.1152 ± 0.0347	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0005 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.0381 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0034 \\ 0.7749 \pm 0.0034 \\ 0.30467 \pm 0.0088 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.7749 \pm 0.0034 \\ 0.3467 \pm 0.0008 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.0927 \pm 0.0040 \\ \hline FSC \\ 4.5079 \pm 0.0281 \\ 0.0437 \pm 0.0320 \\ 0.0457 \pm 0.0130 \\ 0.0457 \pm 0.0130 \\ 0.0457 \pm 0.0130 \\ 0.0457 \pm 0.0041 \\ 0.0221 \pm 0.0095 \\ 1.2087 \pm 0.0801 \\ 0.29239 \pm 1.1012 \\ 0.1626 \pm 0.0444 \\ 0.1021 \pm 0.0166 \\ 0.1021 \pm 0.$	3.4660 ± 0.0053 0.5528 ± 0.0011 0.0154 ± 0.0001 0.8314 ± 0.0021 0.9945 ± 0.0012 0.3550 ± 0.0015 0.4442 ± 0.0285 0.2575 ± 0.0001 2.1717 ± 0.0048 0.9807 ± 0.0281 0.3035 ± 0.0013 0.1662 ± 0.0079 39.4854 ± 0.3599 15.2328 ± 0.0447 0.0281 ± 0.0020 1.5787 ± 0.010 0.7755 ± 0.0022 0.3466 ± 0.0079 0.2720 ± 0.0044  2PFCM 4.1417 ± 0.0004 4.1417 ± 0.0000 0.266 ± 0.0004 0.7723 ± 0.0000 0.7723 ± 0.0000 0.1765 ± 0.0000 0.2737 ± 0.0000 0.3753 ± 0.0000 0.1216 ± 0.0000 0.1216 ± 0.0000 0.1216 ± 0.0000 0.1216 ± 0.0000	5.4244 ± 0.1375  1.0070 ± 0.0072  0.2305 ± 0.0077  -0.0002 ± 0.0140  0.4955 ± 0.0101  -0.0002 ± 0.0097  0.6521 ± 0.0102  0.1493 ± 0.0052  0.3086 ± 0.0273  3.2132 ± 0.6500  0.1608 ± 0.0138  0.1633 ± 0.0000  29.1643 ± 1.4002  7.4846 ± 0.2832  0.0161 ± 0.0004  1.6824 ± 0.0650  1.6824 ± 0.0650  0.3835 ± 0.0155  0.0917 ± 0.0162  BFC  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×	$\begin{array}{c} 3.5330 \pm 0.0000 \\ 0.5548 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.0168 \pm 0.0000 \\ 0.0820 \pm 0.0000 \\ 0.0925 \pm 0.0000 \\ 0.3630 \pm 0.0000 \\ 0.6178 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2550 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.2029 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.2062 \pm 0.0000 \\ 0.3058 \pm 0.0000 \\ 0.0164 \pm 0.0000 \\ 0.01798 \pm 0.0000 \\ 0.01798 \pm 0.0000 \\ 0.3614 \pm 0.0000 \\ 0.1117 \pm 0.0000 \\ 0.5015 \pm 0.0000 \\ 0.1118 \pm 0.0000 \\ 0.1118 \pm 0.0185 \\ 0.4743 \pm 0.0371 \\ 0.4407 \pm 0.0981 \\ 0.2742 \pm 0.0215 \\ 1.7966 \pm 0.3492 \\ 0.2566 \pm 1.4066 \\ 0.2580 \pm 0.0448 \\ 0.1179 \pm 0.0261 \\ 4.47456 \pm 6.3442 \\ 4.47456 \pm 6.3442 \\ \end{array}$	$\begin{array}{c} 3.4485 \pm 0.0007 \\ 0.5375 \pm 0.0014 \\ 0.0132 \pm 0.0002 \\ 0.8589 \pm 0.00018 \\ 0.0793 \pm 0.0008 \\ 0.3715 \pm 0.0009 \\ 0.6017 \pm 0.0483 \\ 0.2576 \pm 0.0002 \\ 0.1575 \pm 0.0006 \\ 0.1575 \pm 0.0006 \\ 0.1575 \pm 0.0006 \\ 0.1575 \pm 0.0006 \\ 0.1575 \pm 0.0016 \\ 0.1575 \pm 0.0016 \\ 0.1575 \pm 0.0016 \\ 0.1575 \pm 0.0016 \\ 0.1575 \pm 0.0018 \\ 0.1584 \pm 0.0018 \\ 0.15912 \pm 0.0017 \\ 0.15912 \pm 0.0001 \\ 0.15912 \pm 0.0001 \\ 0.15912 \pm 0.0000 \\ 0.15912 \pm $
TWI↓ 0.4215 ± 0.0063 0.6353 ± 0.0555 0.5091 ± 0.0404 0.4229 ± 0.0000 × 0.5268 ± 0.0434 <b>0.3448 ± 0.0000</b> ACC↑ 0.1991 ± 0.0045 0.1373 ± 0.0164 0.2636 ± 0.0281 0.2000 ± 0.0000 × 0.1675 ± 0.0196 0.2810 ± 0.0000 NMI↑ 0.1378 ± 0.0103 0.0587 ± 0.0249 0.2673 ± 0.0445 0.1336 ± 0.0000 × 0.1084 ± 0.0325 0.3140 ± 0.0000	WGSS\$\J MRI\  GPI\  BHGI\  CPI\  BHGI\  CI\  TI\  DGI\  RII\  RII\  CHI\  RII\  DI\  BHI\  RSI\  DBI\  LSSRI\  TWI\  ACC\(\gamma\) MRI\  ACC\(\gamma\) MRI\  GPI\  BHGI\  CI\  TI\  DGI\  RII\  WGSS\(\gamma\) MRI\  GPI\  BHGI\  CI\  TI\  DGI\  RII\  CHI\  RII\  TI\  DGI\  RII\  CHI\  RII\  CHI\  RII\  BHGI\  CHI\  RII\  CHI\  BHGI\  DI\  BHII\  DI\  BHII\  BHII\  DI\  BHII\  DI\  BHII\  DI\  BHII\  DBII\  DBII\  DBIII\	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0224 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.033 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0135 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0009 \\ \hline{\text{FCM}} \\ 4.0995 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0045 \\ 0.1181 \pm 0.0020 \\ 0.3719 \pm 0.0054 \\ 0.3726 \pm 0.0150 \\ 0.2672 \pm 0.0069 \\ 1.9728 \pm 0.1043 \\ 1.8281 \pm 0.1085 \\ 0.2094 \pm 0.0058 \\ 0.1200 \pm 0.0055 \\ 47.7023 \pm 1.7305 \\ 18.3786 \pm 1.6131 \\ 1.83786 \pm 1.6131 \\ \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 15.7846 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0166 0.2849 ± 0.023 0.3024 ± 0.034 MEC  5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0298 0.2998 ± 0.0599 0.1152 ± 0.0347 56.2621 ± 8.4753 35.9067 ± 10.625	3.4673 ± 0.0081 0.5519 ± 0.0020 0.0152 ± 0.0003 0.8334 ± 0.0030 0.0938 ± 0.0014 0.3555 ± 0.0005 0.4318 ± 0.0280 0.2575 ± 0.0002 2.1704 ± 0.0073 0.9863 ± 0.0381 0.3032 ± 0.0016 0.1619 ± 0.0106 39.6807 ± 0.5807 15.4603 ± 0.1819 0.0301 ± 0.0061 1.5892 ± 0.0337 0.7749 ± 0.0034 0.3467 ± 0.008 0.2726 ± 0.0043 0.3062 ± 0.0037 0.0927 ± 0.0040 FSC 4.5079 ± 0.2281 0.6437 ± 0.0320 0.0457 ± 0.0130 0.6857 ± 0.0667 0.1488 ± 0.0297 0.3676 ± 0.0401 0.3584 ± 0.0614 0.2321 ± 0.0095 1.2087 ± 0.1801 2.9239 ± 1.1012 0.1626 ± 0.0444 0.1021 ± 0.0166 56.0150 ± 5.3085 8.6801 ± 1.8138	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0006 \\ 0.7755 \pm 0.0022 \\ 0.3466 \pm 0.005 \\ 0.2720 \pm 0.0042 \\ 0.3140 \pm 0.0054 \\ 0.962 \pm 0.0044 \\ 2PFCM \\ \hline 4.1417 \pm 0.0000 \\ 0.0267 \pm 0.0000 \\ 0.07723 \pm 0.0000 \\ 0.07725 \pm 0.0000 \\ 0.02108 \pm 0.0000 \\ 0.02108 \pm 0.0000 \\ 0.2108 \pm 0.000$	5.4244 ± 0.1375  1.0070 ± 0.0072  0.2305 ± 0.0077  -0.0002 ± 0.0140  0.4955 ± 0.0101  -0.0002 ± 0.0097  6.6521 ± 0.0102  0.1493 ± 0.0052  0.3086 ± 0.0273  3.2132 ± 0.6500  0.1608 ± 0.0138  0.1663 ± 0.0000  29.1643 ± 1.4002  7.4846 ± 0.2832  0.0161 ± 0.0004  1.6824 ± 0.0650  -1.1803 ± 0.1099  0.8404 ± 0.0185  0.2874 ± 0.0136  0.3835 ± 0.0155  0.9917 ± 0.0162  BFC  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.0256 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2029 ± 0.0000 0.2029 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.10146 ± 0.0000 0.1146 ± 0.0000 0.3638 ± 0.0000 0.3628 ± 0.0000 0.3628 ± 0.0000 0.3614 ± 0.0000	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.0012 0.0793 ± 0.0008 0.3715 ± 0.0008 0.3715 ± 0.0008 0.2576 ± 0.0002 2.1877 ± 0.0006 0.9109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 15.2649 ± 0.1076 0.0156 ± 0.0036 1.5912 ± 0.016 0.7829 ± 0.0003 0.3448 ± 0.0001 0.2827 ± 0.0037 0.3112 ± 0.0051 0.0932 ± 0.0017 CAFCM 3.4481 ± 0.0000 0.131 ± 0.0001 0.8594 ± 0.0000 0.0131 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0788 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.01381 ± 0.0000 0.3298 ± 0.0000
$\overline{\text{ACC}\uparrow}$ 0.1991 ± 0.0045 0.1373 ± 0.0164 0.2636 ± 0.0281 0.2000 ± 0.0000 × 0.1675 ± 0.0196 0.2810 ± 0.0000 NMI↑ 0.1378 ± 0.0103 0.0587 ± 0.0249 0.2673 ± 0.0445 0.1336 ± 0.0000 × 0.1084 ± 0.0325 0.3140 ± 0.0000	WGSS\$\J MRI\  GPI\  BHGI\  CI\  TI\  DGI\  RI\  RII\  CHI\  RTI\  BHGI\  CHI\  RTI\  BHI\  PBMI\  XBI\  ACC\  NMI\  ARI\  WarpPIE10P WGSS\  MRI\  GPI\  BHGI\  CI\  TI\  CHI\  RTI\  WGSS\  MRI\  GPI\  WGSS\  MRI\  GPI\  WGSS\  MRI\  GPI\  WHI\  CHI\  CHI\  RII\  WGI\  DI\  NGI\  RII\  WGSS\  MRI\  CHI\  RII\  CHI\  RTI\  WGI\  DI\  DI\  DI\  DI\  DI\  DI\  DI\  D	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0224 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 1.48197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.0911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.00872 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.0912 \pm 0.0136 \\ 0.1508 \pm 0.0278 \\ 0.1025 \\ 0.2808 \pm 0.0238 \\ 0.0056 \pm 0.00125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0209 \\ \hline FCM \\ 4.0995 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0045 \\ 0.1181 \pm 0.0020 \\ 0.3726 \pm 0.0150 \\ 0.2672 \pm 0.0069 \\ 1.9728 \pm 0.1043 \\ 1.8281 \pm 0.1085 \\ 0.2094 \pm 0.0055 \\ 0.1200 \pm 0.0055 \\ 0.1200 \pm 0.0055 \\ 0.0120 \pm 0.0055 \\ 0.1200 \pm 0.0055 \\ 0.0144 \pm 0.0056 \\ 0.0949 \pm 0.0706 \\ \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 15.7846 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0106 0.2849 ± 0.0223 0.3024 ± 0.0304 0.0893 ± 0.0204  MEC  5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0253 2.0753 ± 0.4907 1.1546 ± 0.6850 0.2998 ± 0.0599 0.1152 ± 0.0347 35.9067 ± 10.6260 0.4478 ± 0.0260	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0005 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.0381 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0034 \\ 0.3031 \pm 0.0061 \\ 1.5892 \pm 0.0034 \\ 0.3749 \pm 0.0034 \\ 0.30467 \pm 0.0034 \\ 0.3467 \pm 0.0034 \\ 0.3467 \pm 0.0008 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.0927 \pm 0.0040 \\ \hline FSC \\ 4.5079 \pm 0.0281 \\ 0.0437 \pm 0.0320 \\ 0.0457 \pm 0.0130 \\ 0.188 \pm 0.0297 \\ 0.3584 \pm 0.0614 \\ 0.0211 \pm 0.0166 \\ 0.1262 \pm 0.0444 \\ 0.1021 \pm 0.0166 \\ 5.0150 \pm 5.3085 \\ 8.6801 \pm 1.8138 \\ 0.0513 \pm 0.0168 \\ 2.4521 \pm 0.2813 \\ \end{array}$	3.4660 ± 0.0053 0.5528 ± 0.0011 0.0154 ± 0.0001 0.8314 ± 0.0021 0.9945 ± 0.0012 0.3550 ± 0.0015 0.4442 ± 0.0285 0.2575 ± 0.0001 2.1717 ± 0.0048 0.9807 ± 0.0281 0.3035 ± 0.0013 0.1662 ± 0.0079 39.4854 ± 0.3599 15.2328 ± 0.0447 0.0281 ± 0.0020 1.5787 ± 0.010 0.7755 ± 0.0022 0.3466 ± 0.0005 0.2720 ± 0.0042 0.3140 ± 0.0054 0.0962 ± 0.0044  2PFCM 4.1417 ± 0.0000 0.5966 ± 0.0000 0.0267 ± 0.0000 0.1763 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.1166 ± 0.0000 0.1216 ± 0.0000 0.1216 ± 0.0000 0.1216 ± 0.0000 0.1216 ± 0.0000 0.1216 ± 0.0000 0.1216 ± 0.0000 0.146 ± 0.0000 0.146 ± 0.0000 0.146 ± 0.0000 0.1446 ± 0.0000 0.12130 ± 0.0000	5.4244 ± 0.1375  1.0070 ± 0.0072 0.2305 ± 0.0077 -0.0002 ± 0.0140 0.4955 ± 0.0101 -0.0002 ± 0.0097  0.6521 ± 0.0102 0.1493 ± 0.0052 0.3086 ± 0.0273 3.2132 ± 0.6500 0.1608 ± 0.0138 0.1633 ± 0.0000 29.1643 ± 1.4002 7.4846 ± 0.2832 0.0161 ± 0.0034 1.6824 ± 0.0650 0.3835 ± 0.0135 0.0917 ± 0.0162  BFC	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.0255 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.20299 ± 0.0000 0.20299 ± 0.0000 0.2029 ± 0.0000 0.3058 ± 0.0000 0.2062 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.31538 ± 0.0000 0.0146 ± 0.0000 0.0146 ± 0.0000 0.3628 ± 0.0000 0.3628 ± 0.0000 0.3628 ± 0.0000 0.3628 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.1117 ± 0.0000 0.5050 ± 0.0119 0.7501 ± 0.0406 0.1118 ± 0.0185 0.4743 ± 0.0371 0.4407 ± 0.0981 0.2742 ± 0.0215 1.7966 ± 0.3492 2.2566 ± 1.4066 0.2580 ± 0.0438 0.1179 ± 0.0261 44.7456 ± 6.3442 15.8542 ± 4.2921 0.0459 ± 0.0199	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.00018 0.3715 ± 0.0009 0.6017 ± 0.0483 0.2576 ± 0.0002 2.1877 ± 0.0006 0.9109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 0.156 ± 0.0036 1.5912 ± 0.0216 0.7829 ± 0.0036 1.5912 ± 0.0216 0.7829 ± 0.0037 0.3448 ± 0.001 0.2827 ± 0.0037 0.3112 ± 0.0051 0.932 ± 0.0017  CAFCM  3.4481 ± 0.0000 0.5368 ± 0.0000 0.131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.01354 ± 0.0000 0.01354 ± 0.0000 0.01354 ± 0.0000 0.01357 ± 0.0000 0.2357 ± 0.0000 0.2357 ± 0.0000 1.52014 ± 0.0000 1.6021 ± 0.0000 1.6021 ± 0.0000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	WGSS\$\J MRI\J GPI\J BHGI↑ CCI\J TI↑ DGI↑ RLI↑ CHI↑ RTI\J DBI\J DBI	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0224 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.033 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 41.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.6911 \pm 0.0509 \\ 0.3670 \pm 0.0125 \\ 0.2808 \pm 0.0238 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0009 \\ \hline{\text{FCM}} \\ 4.0995 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.0045 \\ 0.1181 \pm 0.0020 \\ 0.3719 \pm 0.0054 \\ 0.3726 \pm 0.0150 \\ 0.2672 \pm 0.0069 \\ 1.9728 \pm 0.1043 \\ 1.8281 \pm 0.1085 \\ 0.2094 \pm 0.0058 \\ 0.1200 \pm 0.0055 \\ 47.7023 \pm 1.7305 \\ 18.3786 \pm 1.6131 \\ 0.0454 \pm 0.0056 \\ 2.0949 \pm 0.0706 \\ 0.4750 \pm 0.0042 \\ \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 15.7846 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0106 0.2849 ± 0.023 0.3024 ± 0.034 0.0893 ± 0.0204 MEC 5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0258 0.4790 ± 0.0347 56.2621 ± 8.4753 35.9067 ± 10.626 0.0478 ± 0.0598	3.4673 ± 0.0081 0.5519 ± 0.0020 0.0152 ± 0.0003 0.8334 ± 0.0030 0.8334 ± 0.0030 0.938 ± 0.0014 0.3555 ± 0.0005 0.4318 ± 0.0280 0.2575 ± 0.0002 2.1704 ± 0.0073 0.9863 ± 0.0381 0.3032 ± 0.0016 0.1619 ± 0.0106 39.6807 ± 0.5807 15.4603 ± 0.1819 0.0301 ± 0.0061 1.5892 ± 0.0337 0.7749 ± 0.0034 0.3467 ± 0.0080 0.2726 ± 0.0043 0.3062 ± 0.0037 0.0927 ± 0.0040 FSC 4.5079 ± 0.2281 0.6437 ± 0.0320 0.0457 ± 0.0130 0.6857 ± 0.0667 0.1488 ± 0.0297 0.3676 ± 0.0410 0.3584 ± 0.0614 0.2321 ± 0.0095 1.2087 ± 0.1801 2.9239 ± 1.1012 0.1626 ± 0.0444 0.1021 ± 0.0166 56.0150 ± 5.3085 8.6801 ± 1.8138 0.0513 ± 0.0168 2.4521 ± 0.2813 0.1485 ± 0.1483	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.2575 \pm 0.0001 \\ 2.1717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0041 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0106 \\ 0.7755 \pm 0.0022 \\ 0.3466 \pm 0.005 \\ 0.2720 \pm 0.0042 \\ 0.3140 \pm 0.0054 \\ 0.962 \pm 0.0044 \\ 2PFCM \\ 4.1417 \pm 0.0000 \\ 0.0267 \pm 0.0000 \\ 0.07723 \pm 0.0000 \\ 0.07725 \pm 0.0000 \\ 0.01166 \pm 0.0000 \\ 0.0772 \pm 0.0000 \\ 0.0772 \pm 0.0000 \\ 0.0772 \pm 0.0000 \\ 0.0772 \pm 0.0000 \\ 0.1168 \pm 0.0000 \\ 0.2108 \pm 0.0000$	5.4244 ± 0.1375 1.0070 ± 0.0072 0.2305 ± 0.0077 -0.0002 ± 0.0140 0.4955 ± 0.0101 -0.0002 ± 0.0097 0.6521 ± 0.0102 0.1493 ± 0.0052 0.3086 ± 0.0273 3.2132 ± 0.6500 0.1693 ± 0.0052 0.3086 ± 0.0273 3.2132 ± 0.6500 0.1608 ± 0.0138 0.1663 ± 0.0000 29.1643 ± 1.4002 7.4846 ± 0.2832 0.0161 ± 0.004 1.6824 ± 0.0650 -1.1803 ± 0.1009 0.8404 ± 0.0185 0.2874 ± 0.0136 0.3835 ± 0.0155 0.0917 ± 0.0162 BFC  × × × × × × × × × × × × × × × × × ×	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.0256 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2029 ± 0.0000 0.2029 ± 0.0000 0.2062 ± 0.0000 0.3058 ± 0.0000 0.2062 ± 0.0000 0.3058 ± 0.0000 0.1146 ± 0.0000 0.15338 ± 0.0000 0.15338 ± 0.0000 0.3628 ± 0.0000 0.3628 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.3614 ± 0.0000 0.1117 ± 0.0000 0.5015 ± 0.0400 0.1118 ± 0.0185 0.4743 ± 0.0371 0.4407 ± 0.0981 0.2742 ± 0.0215 1.7966 ± 0.3492 2.2566 ± 1.4066 0.2580 ± 0.0438 0.1179 ± 0.0261 44.7456 ± 6.3442 1.6098 ± 0.0438 0.1179 ± 0.0261 44.7456 ± 6.3442 1.6098 ± 0.0395 0.0836 ± 0.1595	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.0012 0.0793 ± 0.0008 0.3715 ± 0.0008 0.3715 ± 0.0008 0.2576 ± 0.0002 2.1877 ± 0.0006 0.9109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 15.2649 ± 0.1076 0.0156 ± 0.0036 1.5912 ± 0.016 0.7829 ± 0.0003 0.3448 ± 0.001 0.2827 ± 0.0037 0.3112 ± 0.0017 CAFCM 3.4481 ± 0.0001 0.8594 ± 0.0001 0.8594 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.01381 ± 0.0000 0.3275 ± 0.0000 0.3275 ± 0.0000 0.3298 ± 0.0000
$ \text{ARI} \uparrow \qquad  0.0264 \pm 0.0031  -0.0034 \pm 0.0059  0.0591 \pm 0.0254  0.0250 \pm 0.0000  \times \qquad \qquad 0.0058 \pm 0.0097  0.0940 \pm 0.0000 $	WGSSJ  MRIJ GPIJ BHGIT CLJ TIT DGIT RLIT TH BHIT BHIT BHIT BHIT BBHIT BBHIT ARIT WGSSJ  MRIJ GPIJ BHGIT CLI TTIT BHIT ARIT WGSSJ  MRIJ GPIJ BHGIT CLI TIT DGIT RLIT BHGIT CLI TIT DGIT RLIT TH DGIT BHGIT RIT BHGIT RIT BHGIT RIT BHGIT RIT BHGIT RIT SBIJ BHGIT RIT BHGIT	$\begin{array}{c} 3.6702 \pm 0.1250 \\ 0.5617 \pm 0.0153 \\ 0.0184 \pm 0.0038 \\ 0.8269 \pm 0.0287 \\ 0.0924 \pm 0.0127 \\ 0.3804 \pm 0.0224 \\ 0.4522 \pm 0.0789 \\ 0.2544 \pm 0.0030 \\ 2.0035 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 1.1935 \pm 0.1020 \\ 1.1935 \pm 0.1020 \\ 1.1935 \pm 0.3724 \\ 0.3000 \pm 0.0166 \\ 0.1508 \pm 0.0278 \\ 14.1859 \pm 1.4855 \\ 14.8197 \pm 1.7981 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.0322 \pm 0.0136 \\ 1.6531 \pm 0.0813 \\ 0.0320 \pm 0.0125 \\ 0.2808 \pm 0.0228 \\ 0.3006 \pm 0.0334 \\ 0.0872 \pm 0.0209 \\ \hline{\text{FCM}} \\ 4.0995 \pm 0.0781 \\ 0.5964 \pm 0.0033 \\ 0.0265 \pm 0.0012 \\ 0.7720 \pm 0.00445 \\ 0.1181 \pm 0.0020 \\ 0.3719 \pm 0.0054 \\ 0.3719 \pm 0.0054 \\ 0.1821 \pm 0.1085 \\ 0.2094 \pm 0.0058 \\ 0.1200 \pm 0.0056 \\ 2.0949 \pm 0.0056 \\ 2.0949 \pm 0.0056 \\ 2.0949 \pm 0.0056 \\ 2.0949 \pm 0.0063 \\ 0.4750 \pm 0.0043 \\ 0.4750 \pm 0.0043 \\ 0.04215 \pm 0.0063 \\ \end{array}$	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 15.7846 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0166 0.2849 ± 0.0223 0.3024 ± 0.0304 0.0893 ± 0.0204 MEC 5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.4992 ± 0.0407 0.1518 0.3029 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0258 0.4790 ± 0.0347 56.2621 ± 8.4753 35.9067 ± 10.626 0.0478 ± 0.0260 1.4158 ± 0.0260 1.4158 ± 0.0260 1.4158 ± 0.0255	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0002 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.1819 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0037 \\ 0.749 \pm 0.0034 \\ 0.3672 \pm 0.0008 \\ 0.2726 \pm 0.0037 \\ 0.749 \pm 0.0034 \\ 0.362 \pm 0.0037 \\ 0.927 \pm 0.0040 \\ 0.3584 \pm 0.031 \\ 0.0067 \pm 0.0038 \\ 0.2726 \pm 0.0037 \\ 0.0075 \pm 0.0038 \\ 0.0075 \pm 0.0038 \\ 0.0075 \pm 0.0038 \\ 0.0457 \pm 0.0130 \\ 0.1288 \pm 0.0614 \\ 0.2321 \pm 0.0095 \\ 1.2087 \pm 0.1801 \\ 0.2321 \pm 0.0166 \\ 5.0150 \pm 5.3085 \\ 8.6801 \pm 1.8138 \\ 0.0513 \pm 0.0168 \\ 2.4521 \pm 0.2813 \\ 0.1485 \pm 0.1483 \\ 0.05091 \pm 0.0404 \\ 0.1485 \pm 0.1483 \\ 0.0501 \pm 0.0404 \\ 0.1485 \pm 0.1483 \\ 0.0513 \pm 0.0168 \\ 2.4521 \pm 0.2813 \\ 0.1485 \pm 0.1483 \\ 0.05091 \pm 0.0404 \\ 0.1485 \pm 0.1483$	$\begin{array}{c} 3.4660 \pm 0.0053 \\ 0.5528 \pm 0.0011 \\ 0.0154 \pm 0.0001 \\ 0.8314 \pm 0.0021 \\ 0.0945 \pm 0.0012 \\ 0.3550 \pm 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.0015 \\ 0.4442 \pm 0.0285 \\ 0.0013 \\ 0.2575 \pm 0.0001 \\ 0.21717 \pm 0.0048 \\ 0.9807 \pm 0.0281 \\ 0.3035 \pm 0.0013 \\ 0.1662 \pm 0.0079 \\ 39.4854 \pm 0.3599 \\ 15.2328 \pm 0.0447 \\ 0.0281 \pm 0.0020 \\ 1.5787 \pm 0.0106 \\ 0.7755 \pm 0.0022 \\ 0.3466 \pm 0.0055 \\ 0.2720 \pm 0.0044 \\ 0.0962 \pm 0.0044 \\ 0.9962 \pm 0.0044 \\ 0.9967 \pm 0.0000 \\ 0.3140 \pm 0.0054 \\ 0.0962 \pm 0.0044 \\ 0.0962 \pm 0.0044 \\ 0.0966 \pm 0.0000 \\ 0.7723 \pm 0.0000 \\ 0.1766 \pm 0.0000 \\ 0.3739 \pm 0.0000 \\ 0.1765 \pm 0.0000 \\ 0.3739 \pm 0.0000 \\ 0.2772 \pm 0.0000 \\ 0.2108 \pm 0.0000 \\ 0.2130 \pm 0.0000 \\ 0.4468 \pm 0.0000 \\ 0.4698 \pm 0.0000 \\ 0.$	5.4244 ± 0.1375 1.0070 ± 0.0072 0.2305 ± 0.0077 -0.0002 ± 0.0140 0.4955 ± 0.0101 -0.0002 ± 0.0097 0.6521 ± 0.0102 0.1493 ± 0.0052 0.3086 ± 0.0273 3.2132 ± 0.6500 0.1698 ± 0.0138 0.1663 ± 0.0000 29.1643 ± 1.4002 7.4846 ± 0.2832 0.0161 ± 0.0004 1.6824 ± 0.0650 -1.1803 ± 0.1009 0.8404 ± 0.0185 0.2874 ± 0.0136 0.3835 ± 0.0155 0.0917 ± 0.0162 BFC	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.0256 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.2029 ± 0.0000 0.3058 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.1184 ± 0.0000 0.0146 ± 0.0000 0.3614 ± 0.0000 0.3615 ± 0.0000 0.3616 ± 0.3384 0.6351 ± 0.0209 0.5506 ± 0.0119 0.7501 ± 0.0446 0.1118 ± 0.0185 0.4743 ± 0.0371 0.4407 ± 0.0981 0.2742 ± 0.0215 1.7966 ± 0.3492 1.2566 ± 1.4066 0.2580 ± 0.0438 0.1179 ± 0.0261 44.7456 ± 6.3442 15.8542 ± 4.2921 0.0459 ± 0.0199 1.6098 ± 0.0199 1.6098 ± 0.0195 0.8366 ± 0.1595 0.5268 ± 0.0434	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.0012 0.8589 ± 0.0012 0.793 ± 0.0008 0.3715 ± 0.0009 0.6017 ± 0.0483 0.2576 ± 0.0002 2.1877 ± 0.0006 0.109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 15.2649 ± 0.1076 0.0156 ± 0.0036 1.5912 ± 0.0216 0.7829 ± 0.003 0.3448 ± 0.0001 0.2827 ± 0.0036 0.3448 ± 0.0001 0.8594 ± 0.0017 CAFCM 3.4481 ± 0.0000 0.5368 ± 0.0000 0.1311 ± 0.0000 0.1312 ± 0.0000
	WGSS\$\J MRI\  GPI\  BHGI\  CI\  TI\  DGI\  RI\  RII\  CHI\  RTI\  BHGI\  CHI\  RTI\  BHI\  DBI\  ACC\  MRI\  WarpPIE10P WGSS\  MRI\  GPI\  MRI\  GPI\  WGI\  DGI\  RLI\  CHI\  RTI\  WGSS\  MRI\  GPI\  WGSS\  MRI\  GPI\  WGSS\  MRI\  GPI\  WGSS\  MRI\  CI\  TI\  TI\  TI\  TI\  WGI\  DGI\  RLI\  CHI\  RTI\  WGI\  TUT\  WGI\  DI\  TI\  TI\  TI\  TI\  TI\  TI\  TI\  T	3.6702 ± 0.1250 0.5617 ± 0.0153 0.0184 ± 0.0038 0.8269 ± 0.0287 0.0924 ± 0.0127 0.3804 ± 0.0204 0.4522 ± 0.0789 0.2544 ± 0.0030 2.0035 ± 0.1020 1.1935 ± 0.3724 0.3000 ± 0.0166 0.1508 ± 0.0278 41.1859 ± 1.4855 14.8197 ± 1.7981 0.0322 ± 0.0136 1.6531 ± 0.0813 0.6911 ± 0.0509 0.3670 ± 0.0125 0.2808 ± 0.0234 0.0872 ± 0.0036 0.3006 ± 0.0034 0.0872 ± 0.0209 FCM 4.0995 ± 0.0781 0.5964 ± 0.0033 0.0265 ± 0.0012 0.7720 ± 0.0045 0.1181 ± 0.0020 0.3719 ± 0.0054 0.3726 ± 0.0150 0.2672 ± 0.0069 1.9728 ± 0.1043 1.8281 ± 0.1085 0.2094 ± 0.0058 0.1200 ± 0.0055 0.2094 ± 0.0058 0.1200 ± 0.0056 2.0949 ± 0.0706 0.4750 ± 0.0760 0.4750 ± 0.0760 0.4750 ± 0.0760 0.4750 ± 0.0045 0.1131 ± 0.0056 0.2094 ± 0.0058 0.1200 ± 0.0056 0.2094 ± 0.0056 0.1378 ± 0.0103 0.1991 ± 0.0045 0.11378 ± 0.0103	3.6396 ± 0.1102 0.5549 ± 0.0114 0.0168 ± 0.0025 0.8398 ± 0.0231 0.0867 ± 0.0113 0.3849 ± 0.0232 0.4596 ± 0.0865 0.2548 ± 0.0019 2.0236 ± 0.0852 1.0997 ± 0.1915 0.3023 ± 0.0167 0.1571 ± 0.0299 41.8175 ± 1.4292 15.7846 ± 1.8157 0.0311 ± 0.0116 1.6543 ± 0.0833 0.7040 ± 0.0432 0.3639 ± 0.0166 0.2849 ± 0.0223 0.3024 ± 0.0304 MEC 5.7692 ± 0.4605 0.6727 ± 0.0235 0.0730 ± 0.0137 0.6944 ± 0.0510 0.1350 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0258 0.4790 ± 0.0341 0.4923 ± 0.1518 0.3029 ± 0.0253 2.0753 ± 0.4907 1.1546 ± 0.6850 0.2998 ± 0.0599 0.1152 ± 0.0347 0.41458 ± 0.0260 1.4158 ± 0.2782 0.3174 ± 0.2081 0.6353 ± 0.0555 0.1373 ± 0.0164 0.0587 ± 0.0249	$\begin{array}{c} 3.4673 \pm 0.0081 \\ 0.5519 \pm 0.0020 \\ 0.0152 \pm 0.0003 \\ 0.8334 \pm 0.0030 \\ 0.0938 \pm 0.0014 \\ 0.3555 \pm 0.0005 \\ 0.4318 \pm 0.0280 \\ 0.2575 \pm 0.0005 \\ 2.1704 \pm 0.0073 \\ 0.9863 \pm 0.0381 \\ 0.3032 \pm 0.0016 \\ 0.1619 \pm 0.0106 \\ 39.6807 \pm 0.5807 \\ 15.4603 \pm 0.0381 \\ 0.0301 \pm 0.0061 \\ 1.5892 \pm 0.0034 \\ 0.3031 \pm 0.0061 \\ 1.5892 \pm 0.0037 \\ 0.7749 \pm 0.0034 \\ 0.3062 \pm 0.0037 \\ 0.7749 \pm 0.0008 \\ 0.2726 \pm 0.0043 \\ 0.3062 \pm 0.0037 \\ 0.0927 \pm 0.0040 \\ \hline FSC \\ 4.5079 \pm 0.0281 \\ 0.0457 \pm 0.00320 \\ 0.0457 \pm 0.0130 \\ 0.0457 \pm 0.0130 \\ 0.0857 \pm 0.0040 \\ 0.2321 \pm 0.0095 \\ 1.2087 \pm 0.0041 \\ 0.2321 \pm 0.0095 \\ 1.2087 \pm 0.0130 \\ 0.3584 \pm 0.0614 \\ 0.2321 \pm 0.0095 \\ 1.2087 \pm 0.130 \\ 0.3584 \pm 0.0614 \\ 0.2321 \pm 0.0095 \\ 1.2087 \pm 0.130 \\ 0.2587 \pm 0.130 \\ 0.2581 \pm 0.0130 \\ 0.3584 \pm 0.0614 \\ 0.2321 \pm 0.0095 \\ 1.2087 \pm 0.130 \\ 0.5881 \pm 0.0614 \\ 0.2321 \pm 0.0095 \\ 1.2087 \pm 0.130 \\ 0.591 \pm 0.0444 \\ 0.1021 \pm 0.0166 \\ 0.50150 \pm 5.3085 \\ 8.6801 \pm 1.8138 \\ 0.0513 \pm 0.0168 \\ 2.4521 \pm 0.2813 \\ 0.1485 \pm 0.1483 \\ 0.5091 \pm 0.0404 \\ 0.2636 \pm 0.0281 \\ 0.2673 \pm 0.0445 \\ 0.2636 \pm 0.0281 \\ 0.2673 \pm 0.0445 \\$	3.4660 ± 0.0053 0.5528 ± 0.0011 0.0154 ± 0.0001 0.8314 ± 0.0021 0.9945 ± 0.0012 0.3550 ± 0.0015 0.4442 ± 0.0285 0.2575 ± 0.0001 2.1717 ± 0.0048 0.9807 ± 0.0281 0.3035 ± 0.0013 0.1662 ± 0.0079 39.4854 ± 0.3599 15.2328 ± 0.0447 0.0281 ± 0.0020 1.5787 ± 0.0106 0.7755 ± 0.0022 0.3466 ± 0.0079 0.2720 ± 0.0042 0.3140 ± 0.0054 0.962 ± 0.0044  2PFCM 4.1417 ± 0.0000 0.5966 ± 0.0000 0.276 ± 0.0000 0.1765 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.3753 ± 0.0000 0.2737 ± 0.0000 0.2737 ± 0.0000 0.2737 ± 0.0000 0.2108 ± 0.0000 0.2108 ± 0.0000 0.2108 ± 0.0000 0.21046 ± 0.0000 0.21046 ± 0.0000 0.21046 ± 0.0000 0.21046 ± 0.0000 0.21046 ± 0.0000 0.21046 ± 0.0000 0.21046 ± 0.0000 0.21304 ± 0.0000 0.21304 ± 0.0000 0.4229 ± 0.0000 0.4229 ± 0.0000 0.2000 ± 0.0000 0.2000 ± 0.0000 0.2000 ± 0.0000 0.1336 ± 0.0000	5.4244 ± 0.1375  1.0070 ± 0.0072 0.2305 ± 0.0077 -0.0002 ± 0.0140 0.4955 ± 0.0101 -0.0002 ± 0.0097  0.6521 ± 0.0102 0.1493 ± 0.0052 0.3086 ± 0.0273 3.2132 ± 0.6500 0.1608 ± 0.0138 0.1653 ± 0.0000 29.1643 ± 1.4002 7.4846 ± 0.2832 0.0161 ± 0.0054 1.6824 ± 0.0650 -1.1803 ± 0.0050 0.8404 ± 0.0185 0.2874 ± 0.0155 0.0917 ± 0.0162  BFC  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×  ×	3.5330 ± 0.0000 0.5548 ± 0.0000 0.0168 ± 0.0000 0.0168 ± 0.0000 0.0255 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.3630 ± 0.0000 0.2550 ± 0.0000 0.2550 ± 0.0000 0.20299 ± 0.0000 0.20299 ± 0.0000 0.2029 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.2062 ± 0.0000 0.3058 ± 0.0000 0.2062 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.3058 ± 0.0000 0.31538 ± 0.0000 0.0146 ± 0.0000 0.0146 ± 0.0000 0.0145 ± 0.0000 0.3628 ± 0.0000 0.3628 ± 0.0000 0.3628 ± 0.0000 0.3614 ± 0	3.4485 ± 0.0007 0.5375 ± 0.0014 0.0132 ± 0.0002 0.8589 ± 0.0008 0.3715 ± 0.0008 0.3715 ± 0.0009 0.6017 ± 0.0483 0.2576 ± 0.0002 2.1877 ± 0.0006 0.9109 ± 0.0115 0.3275 ± 0.0046 0.2284 ± 0.0188 41.2249 ± 0.0376 0.156 ± 0.0036 1.5912 ± 0.0216 0.7829 ± 0.003 0.3448 ± 0.001 0.2827 ± 0.0037 0.3112 ± 0.005 0.932 ± 0.0017  CAFCM  3.4481 ± 0.0000 0.5368 ± 0.0000 0.1311 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.0131 ± 0.0000 0.3712 ± 0.0000 0.3712 ± 0.0000 0.3712 ± 0.0000 0.3712 ± 0.0000 0.3712 ± 0.0000 0.3737 ± 0.0000 0.3737 ± 0.0000 0.3298 ± 0.0000 0.3298 ± 0.0000 0.3298 ± 0.0000 0.3298 ± 0.0000 0.1034 ± 0.0000 0.1034 ± 0.0000 0.1034 ± 0.0000 0.1034 ± 0.0000 0.1034 ± 0.0000 0.1034 ± 0.0000 0.1034 ± 0.0000 0.1034 ± 0.0000 0.1034 ± 0.0000 0.1344 ± 0.0000 0.3140 ± 0.0000 0.3140 ± 0.0000 0.3140 ± 0.0000 0.3140 ± 0.0000 0.3140 ± 0.0000

TABLE III

The mean values and standard deviations of internal and external cluster validity indices resulting from CAFCM, and thirteen baselines on WQ-White and PageBlocks, where N=2 and M=15 in CAPKM++2.0 and CAFCM on WQ-White, and N=2 and M=5 in CAPKM++2.0 and CAFCM on PageBlocks.

WQ-White	KM	KM++	PKM	EWPKM	SC	HC	CAPKM++2.0
WGSS↓	24.1112 ± 0.2265	$24.0518 \pm 0.2140$	$24.1402 \pm 0.0557$	$31.1401 \pm 0.5426$	26.7792 ± 0.5784	24.7211 ± 0.0000	$23.7983 \pm 0.0003$
MRI↓	$0.6234 \pm 0.0049$	$0.6210\pm0.0041$		$0.7862\pm0.0086$		$0.6672\pm0.0000$	
GPI↓	$0.0268 \pm 0.0011$	$0.0266 \pm 0.0010$		$0.0568 \pm 0.0010$		$0.0409 \pm 0.0000$	
BHGI↑ CI↓	$0.7087 \pm 0.0111$ $0.1318 \pm 0.0048$	$0.7137 \pm 0.0095$ $0.1295 \pm 0.0041$	$0.7091 \pm 0.0044$ $0.1314 \pm 0.0019$	$0.3820 \pm 0.0164$ $0.2658 \pm 0.0070$		$0.6272 \pm 0.0000$ $0.1638 \pm 0.0000$	
TI↑	$0.3042 \pm 0.0100$	$0.3077 \pm 0.0090$	$0.3002 \pm 0.0021$	$0.1639 \pm 0.0082$	$0.3277 \pm 0.0061$	$0.2939 \pm 0.0000$	$0.3213 \pm 0.0003$
DGI↑  RLI↑	$0.0985 \pm 0.0304 \\ 0.1982 \pm 0.0045$	$0.0925 \pm 0.0236$ $0.1991 \pm 0.0040$		$0.0788 \pm 0.0117$ $0.1918 \pm 0.0043$		$0.3741 \pm 0.0000$ $0.1921 \pm 0.0000$	
	$1.2958 \pm 0.0215$	$1.3019 \pm 0.0189$	$1.2927 \pm 0.0054$	$0.5167 \pm 0.0211$	$0.9218 \pm 0.0532$	$1.0443 \pm 0.0000$	$1.3258 \pm 0.0000$
RTI↓ WGI↑	$1.2338 \pm 0.1081$ $0.2339 \pm 0.0061$	$\begin{array}{c} 1.2356 \pm 0.1258 \\ 0.2358 \pm 0.0052 \end{array}$		$4.6374 \pm 0.6606$ $0.0372 \pm 0.0044$		$1.4968 \pm 0.0000$ $0.1669 \pm 0.0000$	
DI↑	$0.0107 \pm 0.0032$	$0.2338 \pm 0.0032$ $0.0105 \pm 0.0027$		$0.0372 \pm 0.0044$ $0.0105 \pm 0.0015$		$0.0389 \pm 0.0000$	
	$0.0580 \pm 0.0017$	$0.0581 \pm 0.0010$		$0.0822 \pm 0.0007$		$0.0642 \pm 0.0000$	
PBMI↑  XBI↓	$0.0090 \pm 0.0008$ $0.0441 \pm 0.0538$	$\frac{0.0097 \pm 0.0051}{0.0411 \pm 0.0283}$	$0.0088 \pm 0.0003$ $0.0601 \pm 0.0726$	$0.0043 \pm 0.0001$ $0.0662 \pm 0.0277$		$0.0077 \pm 0.0000$ $0.0022 \pm 0.0000$	
	$1.7215 \pm 0.0582$	$1.7092 \pm 0.0605$		$3.3640 \pm 0.2439$		$1.8248 \pm 0.0000$	
	$0.2590 \pm 0.0166$ $2.1919 \pm 0.0206$	$\frac{0.2637 \pm 0.0146}{2.1860 \pm 0.0181}$		$-0.6611 \pm 0.0406$ $3.3182 \pm 0.0459$		$0.0433 \pm 0.0000$ $2.4613 \pm 0.0000$	
ACC↑	$0.1911 \pm 0.0110$	$0.1943 \pm 0.0110$		$0.1778 \pm 0.0082$	$0.3136 \pm 0.0223$	$0.2201 \pm 0.0000$	$0.2034 \pm 0.0009$
NMI↑	$0.0828 \pm 0.0026$	$0.0825 \pm 0.0022$		$0.0531 \pm 0.0045$		$0.0695 \pm 0.0000$	
ARI↑	$0.0314 \pm 0.0014$	$0.0315 \pm 0.0014$ MEC	FSC	$0.0173 \pm 0.0018$ 2PFCM	BFC	$0.0315 \pm 0.0000$	0.0314 ± 0.0002
WQ-White						XFCM	
WGSS↓	$30.3011 \pm 0.2196$		$34.1901 \pm 0.8792$		$39.0307 \pm 0.8555$		$23.7979 \pm 0.0000$
MRI↓ GPI↓	$0.7324 \pm 0.0012$ $0.0651 \pm 0.0031$	$0.7389 \pm 0.0080$ $0.1110 \pm 0.0097$		$0.7323 \pm 0.0000$ $0.0661 \pm 0.0000$		$0.7322 \pm 0.0125$ $0.0954 \pm 0.0121$	
BHGI↑	$0.5026 \pm 0.0019$	$0.5192 \pm 0.0151$	$0.1354 \pm 0.0146$	$0.5032 \pm 0.0000$	$0.0703 \pm 0.0113$	$0.5217 \pm 0.0268$	$0.7323 \pm 0.0000$
CI↓  TI↑	$0.2174 \pm 0.0009$ $0.2570 \pm 0.0064$	$0.2180 \pm 0.0087$ $0.3524 \pm 0.0166$	$0.3760 \pm 0.0068$ $0.0603 \pm 0.0063$	$0.2171 \pm 0.0000$ $0.2597 \pm 0.0000$		$0.2114 \pm 0.0127$ $0.3291 \pm 0.0264$	$0.1215 \pm 0.0000$ $0.3216 \pm 0.0000$
DGI↑	$0.0447 \pm 0.0271$	$0.0844\pm0.0662$	$0.0476 \pm 0.0099$	$0.0565\pm0.0000$	$0.0000 \pm 0.0000$	$\overline{0.0914 \pm 0.0583}$	$0.1489 \pm 0.0000$
RLI↑  CHI↑	$0.1589 \pm 0.0023$ $0.6882 \pm 0.0227$	$0.1589 \pm 0.0109$ $0.6668 \pm 0.1235$	$0.1106 \pm 0.0077$ $0.1728 \pm 0.0301$	$0.1658 \pm 0.0000$ $0.7568 \pm 0.0000$		$0.1616 \pm 0.0071$ $0.7021 \pm 0.0790$	$\frac{0.2019 \pm 0.0000}{1.3258 \pm 0.0000}$
RTI↓	$28.4805 \pm 11.1635$	$6.2702 \pm 4.4866$	$61.0821 \pm 18.5534$		$303.0457 \pm 124.7866$	$3.4390 \pm 1.3883$	$1.0290 \pm 0.0000$
WGI↑  DI↑	$0.0526 \pm 0.0040 \\ 0.0046 \pm 0.0027$	$0.0678 \pm 0.0339$ $0.0089 \pm 0.0070$	$0.0069 \pm 0.0041$	$0.0602 \pm 0.0000$ $0.0066 \pm 0.0000$		$0.0838 \pm 0.0228$ $0.0100 \pm 0.0064$	$\frac{0.2430 \pm 0.0000}{0.0179 \pm 0.0000}$
BHI↑	$0.0698 \pm 0.0036$	$0.0561 \pm 0.0065$	$0.1028 \pm 0.0043$	$0.0757 \pm 0.0000$			$\frac{0.0179 \pm 0.0000}{0.0593 \pm 0.0000}$
	$0.0055 \pm 0.0004$ $0.5431 \pm 0.7058$	$0.0056 \pm 0.0026$ $0.7697 \pm 1.0280$	$0.0026 \pm 0.0006$ $0.1935 \pm 0.0874$	$0.0065 \pm 0.0000$ $0.0947 \pm 0.0000$		$0.0037 \pm 0.0014$ $0.2875 \pm 0.5703$	$0.0089 \pm 0.0000$ $0.0131 \pm 0.0000$
XBI↓  DBI↓	$5.9397 \pm 0.6268$	$2.3661 \pm 0.3880$			$22.1934 \pm 3.0747$	$2.2232 \pm 0.1841$	$\overline{1.6294 \pm 0.0000}$
LSSRI†	$-0.3826 \pm 0.0090$	$-0.6364 \pm 0.1396$		$-0.3843 \pm 0.0000$		$-0.4159 \pm 0.1070$	
TWI↓ ACC↑	$2.9913 \pm 0.0109$ $0.2750 \pm 0.0082$	$3.2871 \pm 0.1599$ $0.4071 \pm 0.0319$		$2.9934 \pm 0.0000$ $0.2799 \pm 0.0000$		$3.0302 \pm 0.1278$ $0.3585 \pm 0.0366$	
NMI↑	$0.0791 \pm 0.0006$	$0.0843\pm0.0064$	$0.0302 \pm 0.0036$	$0.0796 \pm 0.0000$	$0.0144 \pm 0.0016$	$0.0789 \pm 0.0053$	$0.0806 \pm 0.0000$
ARI↑	$0.0452 \pm 0.0023$	$0.0697 \pm 0.0108$	$0.0098 \pm 0.0016$	$0.0464 \pm 0.0000$	$0.0042 \pm 0.0008$	$0.0597 \pm 0.0136$	$0.0311 \pm 0.0000$
PageBlocks		KM++	PKM	EWPKM	SC 24.0752 + 0.0000	HC	CAPKM++2.0
WGSS↓	$21.7169 \pm 0.3282$	$22.1370 \pm 0.6964$	$21.6463 \pm 0.0431$	$38.1295 \pm 0.0053$	$24.9753\pm0.0000$	$22.5422\pm0.0000$	$21.5478\pm0.0000$
WGSS↓ MRI↓	$21.7169 \pm 0.3282$ $0.4072 \pm 0.0058$	$22.1370 \pm 0.6964$ $0.4087 \pm 0.0072$	$\frac{21.6463 \pm 0.0431}{0.4080 \pm 0.0046}$	$38.1295 \pm 0.0053$ $0.5264 \pm 0.0001$	$24.9753 \pm 0.0000$ $0.4738 \pm 0.0000$	$22.5422 \pm 0.0000$ $0.4167 \pm 0.0000$	21.5478 ± 0.0000 0.3974 ± 0.0001
WGSS↓ MRI↓ GPI↓ BHGI↑	$21.7169 \pm 0.3282$ $0.4072 \pm 0.0058$ $0.0504 \pm 0.0019$ $0.7577 \pm 0.0172$	$22.1370 \pm 0.6964$ $0.4087 \pm 0.0072$ $0.0517 \pm 0.0033$ $0.7617 \pm 0.0154$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \end{array}$	$38.1295 \pm 0.0053$ $0.5264 \pm 0.0001$ $0.0892 \pm 0.0001$ $0.6198 \pm 0.0003$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \end{array}$	$22.5422 \pm 0.0000$ $0.4167 \pm 0.0000$ $0.0547 \pm 0.0000$ $0.7583 \pm 0.0000$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ \textbf{0.3974} \pm \textbf{0.0001} \\ \hline \textbf{0.0476} \pm \textbf{0.0000} \\ \hline \textbf{0.7867} \pm \textbf{0.0002} \end{array}$
WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \end{array}$	$38.1295 \pm 0.0053$ $0.5264 \pm 0.0001$ $0.0892 \pm 0.0001$ $0.6198 \pm 0.0003$ $0.2051 \pm 0.0001$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0889 \pm 0.0000 \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ \underline{0.3974} \pm 0.0001 \\ \underline{0.0476} \pm 0.0000 \\ \underline{0.7867} \pm 0.0002 \\ \underline{0.0745} \pm 0.0001 \end{array}$
WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \end{array}$	$38.1295 \pm 0.0053$ $0.5264 \pm 0.0001$ $0.0892 \pm 0.0001$ $0.6198 \pm 0.0003$ $0.2051 \pm 0.0001$ $0.4247 \pm 0.0002$ $0.0098 \pm 0.0000$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ \textbf{0.0610} \pm \textbf{0.0000} \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ \hline{0.7867} \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ \hline{0.5253} \pm 0.0002 \\ \hline{0.0327} \pm 0.0000 \end{array}$
WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \end{array}$	$\begin{array}{c} \underline{21.6463 \pm 0.0431} \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ \textbf{0.3121} \pm \textbf{0.0000} \end{array}$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ \textbf{0.3974} \pm \textbf{0.0001} \\ \textbf{0.0476} \pm \textbf{0.0000} \\ \textbf{0.7867} \pm \textbf{0.0002} \\ \textbf{0.0745} \pm \textbf{0.0001} \\ \textbf{0.5253} \pm \textbf{0.0002} \\ \textbf{0.0327} \pm \textbf{0.0000} \\ \textbf{0.2622} \pm \textbf{0.0000} \end{array}$
WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.04893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ \textbf{0.3121} \pm 0.0000 \\ \textbf{0.5680} \pm 0.0003 \\ 0.7824 \pm 0.0029 \end{array}$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ \textbf{0.0610} \pm \textbf{0.0000} \\ \textbf{0.2541} \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \end{array}$
WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.3121 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.4316 \pm 0.0002 \\ 0.4316 \pm 0.0002 \end{array}$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.4250 \pm 0.0000 \\ 0.4250 \pm 0.0000 \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ \textbf{0.0610} \pm \textbf{0.0000} \\ 0.2541 \pm 0.0000 \\ 1.8244 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0001 \\ 0.327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \end{array}$
WGSS.  MRIJ GPIJ BHGIT CIJ TTT DGIT RLIT RTIJ WGIT DIT BHIT	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 2.20879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0017 \pm 0.0125 \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.04821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ \textbf{0.3121} \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.4316 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ \textbf{0.2173} \pm 0.0000 \\ \textbf{0.2173} \pm 0.0000 \end{array}$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.4250 \pm 0.0000 \\ 0.4250 \pm 0.0000 \\ 0.0010 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.6101 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \end{array}$
WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ PBMI↑	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.1753 \\ 0.6175 \pm 0.0008 \\ 0.0175 \\ 0.0175 \\ 0.0185 \\ 0.01$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0004 \\ 0.0582 \pm 0.0004 \\ 0.0582 \pm 0.0004 \\ 0.0582 \pm 0.0190 \\ 0.01090 \pm 0.0100 \\ 0.0025 \pm 0.0004 \\ 0.01090 \pm 0.0100 \\ 0.0$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.3121 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.4316 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.0926 \pm 0.00000 \end{array}$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.4250 \pm 0.0000 \\ 0.0101 \pm 0.0000 \\ 0.0101 \pm 0.0000 \\ 0.0154 \pm 0.0000 \\ 0.0154 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0583 \pm 0.0000 \\ 0.0889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.1062 \pm 0.0000 \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0001 \\ 0.3227 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1324 \pm 0.0000 \end{array}$
WGSSJ  MRIJ GPIJ BHGIT CIJ TIT DGIT RLIT RTIJ WGIT DIT BHIT PBMIT XBIJ DBIJ DBIJ	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.0878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.00118 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0079 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.0842 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0025 \pm 0.0004 \\ 0.0025 \pm 0.0004 \\ 0.02581 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.04247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.3121 \pm 0.0000 \\ 0.5680 \pm 0.0000 \\ 0.7824 \pm 0.0029 \\ 0.4316 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.025 \pm 0.0000 \\ 0.025 \pm 0.0000 \\ 0.173 \pm 0.0000 \\ 0.183 \pm 0.0000 \\ 0.184 \pm 0.0001 \\ 0.0025 \pm 0.0000 \\ 0.185 \pm 0.0001 \\ 0.0021 \pm 0.0001$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.0996 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.4250 \pm 0.0000 \\ 0.0101 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 1.7756 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.6101 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0667 \pm 0.0000 \\ 0.0667 \pm 0.0000 \\ 0.0162 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.00478 \pm 0.0000 \\ 0.00478 \pm 0.0000 \\ 0.00000 \\ 0.000000000 \\ 0.00000000$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 0.1007 \pm 0.0000 \\ 0.1007 \pm 0.0000 \\ 0.0007 \pm 0.0000 $
WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† RLI† RLI† RHII† RHII† RHII† SHII† NBHI† XBIJ DBIJ LSSRI†	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.017 \pm 0.0125 \\ 0.0118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0344 \pm 0.0012 \\ 0.0794 \pm 0.0253 \\ 0.2585 \pm 0.1610 \\ \textbf{0.9943} \pm 0.0689 \\ 0.29255 \pm 0.1610 \\ \textbf{0.9943} \pm 0.0669 \\ 0.7077 \pm 0.0468 \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0021 \\ 0.0012 \\ 0.$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0002 \\ 0.2173 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.225 \pm 0.0000 \\ 0.2273 \pm 0.0000 \\ 1.5361 \pm 0.0001 \\ 0.0926 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 1.5361 \pm 0.0021 \\ -0.5657 \pm 0.0002 \end{array}$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.4250 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.0154 \pm 0.0000 \\ 0.0154 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 1.7756 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0583 \pm 0.0000 \\ 0.0889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0162 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0032 \pm 0.0000 \\ 0.0032 \pm 0.0000 \\ 0.0032 \pm 0.0000 \\ 0.00032 \pm 0.0000 \\ 0.00032 \pm 0.0000 \\ 0.00032 \pm 0.0000 \\ 0.00000 \\ 0.00032 \pm 0.0000 \\ 0.000000 \\ 0.000000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.000000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.0000000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.000000 \\ 0.000000 \\ 0.000000 \\ 0.000000 \\ 0.0000000 \\ 0.0000000 \\ 0.00000000$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0001 \\ 0.3227 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2626 \pm 0.0000 \\ 0.1144 \pm 0.0000 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 0.07474 \pm 0.0000 \\ 0.7474 \pm 0.0000$
WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† RLI† RLI† RHIT RHIT RHIT BHI† XBIJ DBIJ LSSRI† TWIJ	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.6878 \pm 0.1753 \\ 0.6175 \pm 0.0086 \\ 0.0181 \pm 0.0086 \\ 0.0191 \pm 0.0125 \\ 0.0018 \pm 0.0086 \\ 0.0191 \pm 0.0125 \\ 0.01$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0055 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0344 \pm 0.0012 \\ 0.0794 \pm 0.0258 \\ 0.2285 \pm 0.1610 \\ \textbf{0.9943} \pm 0.0648 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.4316 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.0926 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 1.5361 \pm 0.0021 \\ -0.5657 \pm 0.00019 \\ 8.5517 \pm 0.0019 \end{array}$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.4250 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.0110 \pm 0.0000 \\ 0.0154 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 1.7756 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 5.5982 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0583 \pm 0.0000 \\ 0.0889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0676 \pm 0.0000 \\ 0.07478 \pm 0.0000 \\ 0.0082 \pm 0.0000 \\ 0.0013 \pm 0.0000 \\ 0.0013 \pm 0.0000 \\ 0.0013 \pm 0.0000 \\ 0.0778 \pm 0.0000 \\ 0.0779 \pm 0.0000 \\ 0.0013 \pm 0.0000 \\ 0.0013 \pm 0.0000 \\ 0.0013 \pm 0.0000 \\ 0.0013 \pm 0.0000 \\ 0.0$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0001 \\ 0.5253 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2626 \pm 0.0000 \\ 0.1114 \pm 0.0000 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0003 \\ 0.0678 \pm 0.0001 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 0.10207 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 0.00000 \\ 0.0000000 \\ 0.00000 \\ 0.000000 \\ 0.000000 \\ 0.000000 \\ 0.000000 \\ 0.000000 \\ 0.000000 \\ 0.0000000 \\ 0.00000000$
WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ PBMI↑ XBI↓ DBI↓ LSSRI↑ TWI↓ ACC↑ NMI↑	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.26879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0344 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0022 \\ 0.4316 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.025 \pm 0.0000 \\ 0.025 \pm 0.0000 \\ 0.025 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 0.5657 \pm 0.0006 \\ 8.5517 \pm 0.0016 \\ 0.7193 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.0003 $	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.010000 \\ 0.010000 \\ 0.0000 \\ 0.01100 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.108 \pm 0.0000 \\ 0.1736 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.10000 \\ 0.100000 \\ 0.1000000 \\ 0.10000000000$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0467 \pm 0.0000 \\ 0.0467 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0585 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0588 \pm 0.0000 \\ 0.058$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0327 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0001 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 1.1207 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 4.3096 \pm 0.0000 \\ 0.5291 \pm 0.0000 \\ 0.1505 \pm 0.0001 \\ \end{array}$
WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ SHI↑ PBMI↑ XBI↓ DBI↓ LSSRI↑ TWI↓ ACC↑ NMI↑ ARI↑	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.0879 \pm 0.0443 \\ 0.06878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \\ 0.0952 \pm 0.0096 \\ \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0344 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ \textbf{0.1583} \pm \textbf{0.0829} \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0029 \\ \hline 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.0914 \pm 0.0067 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0002 \\ 0.0255 \pm 0.0000 \\ 0.0255 \pm 0.0000 \\ 0.0255 \pm 0.0000 \\ 0.0256 \pm 0.0003 \\ 0.811 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.0025 \pm 0.0000 \\ 0.0025 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 0.5657 \pm 0.0016 \\ 0.517 \pm 0.0019 \\ 0.7193 \pm 0.0001 \\ 0.1003 \pm 0.0001 \\ 0.00528 \pm 0.0001 \\ 0.0528 \pm 0.0001 \end{array}$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 0.3952 \pm 0.0000 \\ 0.13952 \pm 0.0000 \\ 0.14506 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.3531 \pm 0.0000 \\ 0.17376 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0467 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0479 \pm 0.0000 \\ 0.05387 \pm 0.0000 \\ 0.05387 \pm 0.0000 \\ 0.05387 \pm 0.0000 \\ 0.05387 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1526 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ $	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0327 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4168 \pm 0.0003 \\ 0.04976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 1.0207 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 0.5291 \pm 0.0000 \\ 0.1505 \pm 0.0001 \\ 0.10077 \pm 0.0002 \\ \end{array}$
WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ PBMI↑ XBI↓ DBI↓ LSSRI↑ TWI↓ ACC↑ NMI↑ ARI↑ PageBlocks	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \\ 0.0952 \pm 0.0096 \\ \hline \text{FCM} \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.4785 \pm 0.0275 \\ 0.0794 \pm 0.0075 \\ 0.1783 \pm 0.0027 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \text{MEC} \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0029 \\ \hline 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.0914 \pm 0.0007 \\ 0.0914 \pm 0.0067 \\ \hline \text{FSC} \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0002 \\ 0.0255 \pm 0.0000 \\ 0.7824 \pm 0.0029 \\ 0.4316 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.025 \pm 0.0000 \\ 0.025 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 0.5657 \pm 0.0006 \\ 8.5517 \pm 0.0016 \\ 0.7193 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.0032 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0001$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.4450 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.010000 \\ 0.0101 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.1736 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.5412 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1526 \pm 0.0000 \\ 0.1266 \pm 0.0000 \\ 0.1266 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0327 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 1.0207 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 0.5291 \pm 0.0000 \\ 0.1505 \pm 0.0001 \\ 0.1077 \pm 0.0002 \\ CAFCM \\ \end{array}$
WGSS\$\pmathcap\$ MRI\pmathcap\$ GPI\pmathcap\$ BHGI\tau\$ CCI\pmathcap\$ TI\tau\$ DGI\tau\$ CHI\tau\$ RTI\pmathcap\$ WGI\tau\$ DI\tau\$ BHI\tau\$ PBMI\tau\$ LSSRI\tau\$ TWI\pmathcap\$ ACC\tau\$ NMI\tau\$ ARI\tau\$ PageBlocks	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ \hline \text{FCM} \\ \hline 21.8530 \pm 0.00019 \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \hline \text{MEC} \\ \hline 34.2909 \pm 2.9662 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.0525 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0044 \\ 0.1090 \pm 0.0100 \\ 0.2814 \pm 0.00746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.0914 \pm 0.0067 \\ \hline FSC \\ 41.3223 \pm 1.1842 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.0025 \pm 0.0000 \\ 0.0025 \pm 0.0000 \\ 0.0025 \pm 0.0000 \\ 0.0025 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 0.5657 \pm 0.0006 \\ 8.5517 \pm 0.0019 \\ 0.7193 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.0032 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.926M \\ 0.0001 \\ 0.528 \pm 0.0001 \\ 0.0038 \pm 0.00001 \\ 0.0038 \pm 0.00001 \\ 0.0038 \pm 0.0001 \\ 0.0038 \pm 0.00001 \\ 0.003$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.0154 \pm 0.0000 \\ 0.0154 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 1.7756 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ \hline \text{BFC} \\ \hline 52.5699 \pm 4.7438 \\ \hline \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.5412 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5424 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0469 \pm 0.0000 \\ 0.0162 \pm 0.0000 \\ 0.0986 \pm 0.0000 \\ 0.0986 \pm 0.0000 \\ 0.0162 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1526 \pm 0.0000 \\ 0.1526 \pm 0.0000 \\ 0.1526 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1900 \pm 0.0000 \\ 0.1900 \pm 0.0000 \\ 0.1900 \pm 0.0000 \\ 0.5291 \pm 0.0000 \\ 0.1505 \pm 0.0001 \\ 0.1077 \pm 0.0002 \\ CAFCM \\ \textbf{21.5478} \pm \textbf{0.0000} \\ \end{array}$
WGSS\$\pmax\$ MRI\pmax\$ GPI\pmax\$ BHGI\pmax\$ CCI\pmax\$ TI\phax\$ DGI\pmax\$ RKLI\pmax\$ CHI\phax\$ RYI\pmax\$ WGI\pmax\$ WGI\pmax\$ WGI\pmax\$ DI\pmax\$ BHI\pmax\$ DBI\pmax\$ LSSRI\pmax\$ TWI\pmax\$ ACC\pmax\$ NMI\pmax\$ ARI\pmax\$ PageBlocks  WGSS\pmax\$	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0015 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ \hline FCM \\ \hline 21.8530 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.0794 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.4785 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \hline \text{MEC} \\ \hline \\ 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0004 \\ 0.0582 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ \hline 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.0914 \pm 0.0067 \\ \hline FSC \\ 41.3223 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.3121 \pm 0.0000 \\ 0.5580 \pm 0.0000 \\ 0.5680 \pm 0.0000 \\ 0.7824 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.0926 \pm 0.0000 \\ 0.5517 \pm 0.0001 \\ 0.5557 \pm 0.0000 \\ 0.528 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.1003 \pm 0.0001 \\ 0.1003 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0000 \\ 0.0000 \\ 0.0528 \pm 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.0000000 \\ 0.00000000$	24.9753 ± 0.0000 0.4738 ± 0.0000 0.0797 ± 0.0000 0.6547 ± 0.0000 0.6547 ± 0.0000 0.4500 ± 0.0000 0.4450 ± 0.0000 0.4991 ± 0.0000 1.4506 ± 0.0000 1.4506 ± 0.0000 0.4250 ± 0.0000 0.0010 ± 0.0000 0.0554 ± 0.0000 0.1108 ± 0.0000 0.17756 ± 0.0000 1.7756 ± 0.0000 0.3331 ± 0.0000 0.3331 ± 0.0000 0.4793 ± 0.0000 0.4793 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.0866 ± 0.0000 D.9579 ± 0.0301 0.1557 ± 0.0040	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0889 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2542 \pm 0.0000 \\ 0.2542 \pm 0.0000 \\ 0.2543 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.0886 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.0673 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1216 \pm 0.0541 \\ 0.6010 \pm 0.0541 \\ 0.1011 \pm 0.0184 \\ \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0001 \\ 0.5253 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.4168 \pm 0.0001 \\ 0.0034 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 0.1190 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 0.5291 \pm 0.0001 \\ 0.1077 \pm 0.0002 \\ 0.54788 \pm 0.0000 \\ 0.3973 \pm 0.0000 \\ 0.0475 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000000 \\ 0.0000000000$
WGSSJ  MRIJ GPIJ BHGIT CIJ TIT DGIT TIT DGIT RTIJ WGIT DIT SHIT PBMIT XBIJ DBIJ LSSRIT TWIJ ACCT NMIT ARIT PageBlocks WGSSJ MRIJ GPIJ BHGIT	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 2.0879 \pm 0.0043 \\ 0.06878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0066 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ 0.416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ \hline FCM \\ \hline 21.8530 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.7142 \pm 0.0000 \\ 0.7512 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.7512 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.7512 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.7512 \pm 0.0000 \\ 0.0532 \pm 0.0$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 0.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.02275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2185 \pm 0.1610 \\ 0.7947 \pm 0.0689 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0629 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \hline {\rm MEC} \\ \hline 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ 0.4501 \pm 0.0669 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.0252 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.2565 \pm 0.0025 \\ 0.02565 \pm 0.0025 \\ 0.02565 \pm 0.0025 \\ 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.0525 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.02681 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.0914 \pm 0.0067 \\ \hline FSC \\ 41.3223 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ 0.5007 \pm 0.0268 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.2121 \pm 0.0000 \\ 0.2131 \pm 0.0000 \\ 0.2131 \pm 0.0000 \\ 0.2133 \pm 0.0001 \\ 0.0025 \pm 0.0000 \\ 0.026 \pm 0.0000 \\ 0.026 \pm 0.0000 \\ 0.026 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 0.5657 \pm 0.0019 \\ 0.7193 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.07$	24.9753 ± 0.0000 0.4738 ± 0.0000 0.0797 ± 0.0000 0.0797 ± 0.0000 0.6547 ± 0.0000 0.1327 ± 0.0000 0.096 ± 0.0000 0.096 ± 0.0000 1.3952 ± 0.0000 1.3952 ± 0.0000 0.4450 ± 0.0000 0.491 ± 0.0000 0.13952 ± 0.0000 0.13952 ± 0.0000 0.13952 ± 0.0000 0.010 ± 0.0000 0.010 ± 0.0000 0.0554 ± 0.0000 0.0118 ± 0.0000 0.17756 ± 0.0000 0.3331 ± 0.0000 0.3331 ± 0.0000 0.4793 ± 0.0000 0.4793 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.0866 ± 0.0000 BFC 52.5699 ± 4.7438 0.9579 ± 0.0301 0.1557 ± 0.0040 0.0441 ± 0.0308	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0748 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.062 \pm 0.0000 \\ 0.0621 \pm 0.0000 \\ 0.07478 \pm 0.0000 \\ 0.07478 \pm 0.0000 \\ 0.07478 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1325 \pm 0.0001 \\ 0.0000 \\ 0.5291 \pm 0.0004 \\ 0.1505 \pm 0.0001 \\ 0.0475 \pm 0.0000 \\ 0.7871 \pm 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.00000000$
WGSS\$\pmax\$ MRI\pmax\$ GPI\pmax\$ BHGI\pmax\$ CCI\pmax\$ TI\phax\$ DGI\pmax\$ RKLI\pmax\$ CHI\phax\$ RYI\pmax\$ WGI\pmax\$ WGI\pmax\$ WGI\pmax\$ DI\pmax\$ BHI\pmax\$ DBI\pmax\$ LSSRI\pmax\$ TWI\pmax\$ ACC\pmax\$ NMI\pmax\$ ARI\pmax\$ PageBlocks  WGSS\pmax\$	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.0879 \pm 0.0443 \\ 0.0617 \pm 0.0125 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \\ 0.0952 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.01742 \pm $	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.0794 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.4785 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \hline \text{MEC} \\ \hline \\ 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 0.2565 \pm 0.0025 \\ 0.973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.9914 \pm 0.0067 \\ \hline FSC \\ 41.3223 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ 0.5007 \pm 0.0268 \\ 0.2945 \pm 0.0085 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.3121 \pm 0.0000 \\ 0.5580 \pm 0.0000 \\ 0.5680 \pm 0.0000 \\ 0.7824 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.0926 \pm 0.0000 \\ 0.5517 \pm 0.0001 \\ 0.5557 \pm 0.0000 \\ 0.528 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.1003 \pm 0.0001 \\ 0.1003 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0000 \\ 0.0000 \\ 0.0528 \pm 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.0000000 \\ 0.00000000$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.4250 \pm 0.0000 \\ 0.4250 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.0110 \pm 0.0000 \\ 0.0110 \pm 0.0000 \\ 0.0118 \pm 0.0000 \\ 1.7756 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.17557 \pm 0.0040 \\ 0.0441 \pm 0.0308 \\ 0.3822 \pm 0.0124 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.05483 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2542 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.0886 \pm 0.0000 \\ 0.0886 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0542 \pm 0.0000 \\ 0.0542 \pm 0.0000 \\ 0.0542 \pm 0.0000 \\ 0.0548 \pm 0.0000 \\ 0.0548 \pm 0.0000 \\ 0.0548 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1238 \pm 0.0000 \\ 0.1248 \pm 0.0000 \\ 0.1248 \pm 0.0000 \\ 0.1248 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1248 \pm 0.0000 \\ 0.1248 \pm 0.0000 \\ 0.1248 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1248 \pm 0.0000 \\ 0.1248 \pm 0.0000 \\ 0.1248 \pm 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.000000 \\ 0.0000000 \\ 0.00000000$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.3227 \pm 0.0000 \\ 0.3227 \pm 0.0000 \\ 0.327 \pm 0.0000 \\ 0.327 \pm 0.0000 \\ 0.327 \pm 0.0000 \\ 0.327 \pm 0.0000 \\ 0.1148 \pm 0.0003 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1907 \pm 0.0000 \\ 0.1907 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 0.5291 \pm 0.0000 \\ 0.5291 \pm 0.0001 \\ 0.1077 \pm 0.0002 \\ \text{CAFCM} \\ \textbf{21.5478} \pm \textbf{0.0000} \\ 0.9475 \pm 0.0000 \\ 0.$
WGSSJ  MRIJ GPIJ BHGIT CIJ TIT DGIT TIT DGIT TIT BHIT NGIT DBIJ LSSRIT TWIJ ACCT NMIT ARIT PageBlocks WGSSJ  MRIJ GPIJ BHGIT CIJ TIT TIT DGIT	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0066 \\ 0.7359 \pm 0.0214 \\ 3.434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ 0.416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \\ 0.0952 \pm 0.0096 \\ \hline FCM \\ \hline 21.8530 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.0716 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.000000 \\ 0.00000000$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2185 \pm 0.1610 \\ 0.1943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \hline {MEC} \\ \hline 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ 0.4501 \pm 0.0669 \\ 0.2499 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.0219 \pm 0.0061 \\ \hline \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.0025 \pm 0.0019 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.01090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.0914 \pm 0.0067 \\ \hline FSC \\ 41.3223 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ 0.5007 \pm 0.0268 \\ 0.2945 \pm 0.0085 \\ 0.2945 \pm 0.0085 \\ 0.20123 \\ 0.0010 \pm 0.0012 \\ \end{array}$	38.1295 ± 0.0053 0.5264 ± 0.0001 0.0892 ± 0.0001 0.6198 ± 0.0003 0.2051 ± 0.0001 0.4247 ± 0.0002 0.0098 ± 0.0003 0.7824 ± 0.0002 0.5680 ± 0.0003 0.7824 ± 0.0002 0.4316 ± 0.0002 0.4316 ± 0.0002 0.4316 ± 0.0002 0.4316 ± 0.0002 0.4316 ± 0.0003 0.5690 ± 0.0000 0.5629 ± 0.0000 0.5629 ± 0.0000 0.5657 ± 0.0019 0.7193 ± 0.001 0.7193 ± 0.001 0.7193 ± 0.001 0.7193 ± 0.0001 0.7193 ± 0.0001 0.7193 ± 0.0001 0.7193 ± 0.0001 0.7193 ± 0.0001 0.7193 ± 0.0001 0.7193 ± 0.0001 0.7142 ± 0.0000 0.0532 ± 0.0000 0.0532 ± 0.0000 0.0536 ± 0.0000 0.0436 ± 0.0000 0.0436 ± 0.0000 0.0436 ± 0.0000 0.0342 ± 0.0000	24.9753 ± 0.0000 0.4738 ± 0.0000 0.0797 ± 0.0000 0.0797 ± 0.0000 0.6547 ± 0.0000 0.1327 ± 0.0000 0.1327 ± 0.0000 0.096 ± 0.0000 0.2491 ± 0.0000 1.3952 ± 0.0000 1.3952 ± 0.0000 0.4450 ± 0.0000 0.2491 ± 0.0000 0.3952 ± 0.0000 0.010 ± 0.0000 0.010 ± 0.0000 0.01554 ± 0.0000 0.01554 ± 0.0000 0.1108 ± 0.0000 0.17756 ± 0.0000 0.3331 ± 0.0000 0.3331 ± 0.0000 0.4793 ± 0.0000 0.4793 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1757 ± 0.0000 0.0866 ± 0.0000  BFC  52.5699 ± 4.7438 0.9579 ± 0.0301 0.1557 ± 0.0040 0.0441 ± 0.0308 0.3822 ± 0.0124 0.0253 ± 0.0179 0.00000 ± 0.0000	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0078 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.6013 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.0$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 0.5291 \pm 0.0001 \\ 0.1505 \pm 0.0001 \\ 0.327 \pm 0.0000 \\ 0.7871 \pm 0.0000 \\ 0.7871 \pm 0.0000 \\ 0.7871 \pm 0.0000 \\ 0.0327 \pm 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.00000 \\ 0.00000000$
WGSSJ  MRIJ GPIJ BHGIT CIJ TIT DGIT RIIJ CHIT RIIJ BHJ PBMIT XBIJ DBIJ LSSRIT TWIJ  ACCT NMIT ARIT PageBlocks WGSSJ MRIJ GPIJ BHGIT CIJ TIT DGIT RIIJ BHGIT CIJ TIT DGIT RIIJ BHGIT CIJ TIT	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.0879 \pm 0.0443 \\ 0.0617 \pm 0.0125 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \\ 0.0952 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.01742 \pm $	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.4785 \pm 0.0275 \\ 0.0794 \pm 0.0075 \\ 0.1783 \pm 0.0012 \\ 0.0794 \pm 0.0175 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.0794 \pm 0.0168 \\ 0.1610 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \text{MEC} \\ 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ 0.4501 \pm 0.0669 \\ 0.2499 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.03122 \pm 0.0487 \\ 0.03122 \pm 0.0487 \\ 0.0129 \pm 0.0170 \\ 0.0129 \pm 0.0170 \\ 0.0129 \pm 0.0101 \\ 0.1994 \pm 0.0177 \\ 0.0194 \pm 0.0177 \\ 0.0194 \pm 0.0177 \\ 0.0194 \pm 0.0177 \\ 0.0152 \\ 0.1532 \\ 0.0153 \\ 0.0153 \\ 0.0154 \\ 0.$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2753 \pm 0.0025 \\ 0.2753 \pm 0.0025 \\ 0.2753 \pm 0.0062 \\ 0.2753 \pm 0.0062 \\ 0.27428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0045 \\ 0.0582 \pm 0.0045 \\ 0.0583 \pm 0.0005 \\ 0.2811 \pm 0.0056 \\ 0.2933 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.914 \pm 0.0067 \\ 0.914 \pm 0.0067 \\ 0.0914 \pm 0.0067 \\ 0.00128 \\ 0.00128 \\ 0.00128 \\ 0.00128 \\ 0.00128 \\ 0.00129 \\ 0.00129 \\ 0.00109 \\ 0.000109 \\ 0.0001 \\ 0.1406 \pm 0.0090 \\ 0.1743 \pm 0.0123 \\ 0.0114 \\ 0.00129 \\ 0.0128 \\ 0.01743 \pm 0.0123 \\ 0.0101 \\ 0.0001 \\ 0.1406 \pm 0.0090 \\ 0.1743 \pm 0.0123 \\ 0.0114 \\ 0.00128 \\ 0.0128 \\ 0.01743 \pm 0.0123 \\ 0.0114 \\ 0.0001 \\ 0.1743 \pm 0.0123 \\ 0.0114 \\ 0.0001 \\ 0.0001 \\ 0.1743 \pm 0.0123 \\ 0.0114 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.1743 \pm 0.0123 \\ 0.0114 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.1743 \pm 0.0123 \\ 0.0114 \\ 0.0001 \\ $	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.0025 \pm 0.0000 \\ 0.025 \pm 0.0000 \\ 0.0257 \pm 0.0000 \\ 0.0926 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 0.5567 \pm 0.0006 \\ 8.5517 \pm 0.0019 \\ 0.7193 \pm 0.0001 \\ 0.0032 \pm 0.0001 \\ 0.0032 \pm 0.0001 \\ 0.0712 \pm 0.0001 \\ 0.07142 \pm 0.0000 \\ 0.0$	24.9753 ± 0.0000 0.4738 ± 0.0000 0.0797 ± 0.0000 0.0797 ± 0.0000 0.6547 ± 0.0000 0.1327 ± 0.0000 0.1327 ± 0.0000 0.096 ± 0.0000 0.096 ± 0.0000 0.2491 ± 0.0000 1.3952 ± 0.0000 0.4450 ± 0.0000 0.13952 ± 0.0000 0.13952 ± 0.0000 0.010 ± 0.0000 0.0554 ± 0.0000 0.0554 ± 0.0000 0.0554 ± 0.0000 0.1108 ± 0.0000 0.17376 ± 0.0000 0.3331 ± 0.0000 0.3331 ± 0.0000 0.4793 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1557 ± 0.0040 0.0414 ± 0.0308 0.3822 ± 0.0179 0.0004 ± 0.0351 0.0000 ± 0.0000 0.0645 ± 0.0235 0.0000 ± 0.0000 0.0645 ± 0.0235 0.0000	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.5412 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.2085 \pm 0.0155 \\ 0.8305 \pm 0.1698 \\ 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.2085 \pm 0.1698 \\ 0.10000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.0000000000$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0745 \pm 0.0002 \\ 0.0327 \pm 0.0002 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 2.1114 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1900 \pm 0.0000 \\ 0.1900 \pm 0.0000 \\ 0.1900 \pm 0.0000 \\ 0.5291 \pm 0.0000 \\ 0.5291 \pm 0.0001 \\ 0.1077 \pm 0.0000 \\ 0.3973 \pm 0.0000 \\ 0.4755 \pm 0.0001 \\ 0.0475 \pm 0.0000 \\ 0.7871 \pm 0.0000 \\ 0.7871 \pm 0.0000 \\ 0.5297 \pm 0.0000 \\ 0.0475 \pm 0.0000 \\ 0.0474 \pm 0.0000 \\ 0.0475 \pm 0.0000 $
WGSSJ  MRIJ GPIJ BHGIT CIJ TIT DGIT RLIT RLIT RUGT RITI WGIT DIT SHIT REST WGIT DBIJ LSSRIT TWIJ ACCT NMIT ARIT PageBlocks WGSSJ MRIJ GPIJ BHGIT CIJ TIT CIJ TIT CIJ TIT CIJ TIT RLIT RITI RITI RITI RITI RITI RITI	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0066 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ 0.416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \\ 0.0952 \pm 0.0096 \\ \hline FCM \\ \hline 21.8530 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0556 \pm 0.0000 \\ 0.25544 \pm 0.0000 \\ 0.2556 \pm 0.0000 \\ 1.1244 \pm 0.0000 \\ 1.1244 \pm 0.0000 \\ 0.0556 \pm 0.0000 \\ 0.0556 \pm 0.0000 \\ 0.2556 \pm 0.0000 \\ 0.2556 \pm 0.0000 \\ 1.1244 \pm 0.0000 \\ 0.00055 \\ 0.00055 \\ 0.0000 \\ 0.00000 \\ 0.000000 \\ 0.00000000$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2185 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1545 \pm 0.0050 \\ 0.1629 \pm 0.0110 \\ \hline {MEC} \\ \hline \hline 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.4501 \pm 0.0669 \\ 0.4501 \pm 0.0669 \\ 0.2499 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.0219 \pm 0.0061 \\ 0.1994 \pm 0.0177 \\ 0.7092 \pm 0.1532 \\ 4.4488 \pm 7.6595 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.0025 \pm 0.0019 \\ 0.04523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.0267 \pm 0.0021 \\ 0.0100 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.0914 \pm 0.0067 \\ \hline FSC \\ \hline 41.3223 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ 0.5007 \pm 0.0268 \\ 0.2945 \pm 0.0085 \\ 0.3210 \pm 0.0123 \\ 0.0010 \pm 0.0001 \\ 0.010406 \pm 0.0090 \\ 0.1743 \pm 0.0124 \\ 4.6271 \pm 1.2316 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.4316 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.0226 \pm 0.0000 \\ 0.0926 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 1.5361 \pm 0.0021 \\ 0.05657 \pm 0.0019 \\ 0.7193 \pm 0.0001 \\ 0.07103 \pm 0.0000 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0000 \\ 0.0528 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.0436 \pm 0.0000 \\ 0.0436 \pm 0.0000 \\ 0.0436 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0524 \pm 0.0000 \\ 0.0524 \pm 0.0000 \\ 0.0524 \pm 0.0000 \\ 0.0524 \pm 0.0000 \\ 0.0526 \pm 0.0000 \\ 0.0526 \pm 0.0000 \\ 0.0526 \pm 0.0000 \\ 0.0556 \pm 0.0000 \\ 1.1244 \pm 0.0000 \\ 0.0001 \\ 0.0001 \\ 1.1244 \pm 0.0000 \\ 0.0001 \\ 1.1244 \pm 0.00000 \\ 0.0001 \\ 1.1244 \pm 0.0000 \\ 0.0001 \\ 1.1244 \pm 0.00000 \\ 0.0001 \\ 1.1244 \pm $	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 0.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.0108 \pm 0.0000 \\ 0.0108 \pm 0.0000 \\ 0.0108 \pm 0.0000 \\ 0.0154 \pm 0.0000 \\ 0.0154 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 0.17756 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0862 \pm 0.0179 \\ 0.0441 \pm 0.0308 \\ 0.3822 \pm 0.0124 \\ 0.0253 \pm 0.0179 \\ 0.00000 \pm 0.0000 \\ 0.0645 \pm 0.0235 \\ 0.0407 \pm 0.0311 \\ 1549.5546 \pm 1722.8200 \\ \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0073 \pm 0.0000 \\ 0.0082 \pm 0.0000 \\ 0.0082 \pm 0.0000 \\ 0.0162 \pm 0.0000 \\ 0.0082 \pm 0.0000 \\ 0.0082 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.0000000000$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1120 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.5291 \pm 0.0004 \\ 0.5291 \pm 0.0001 \\ 0.1077 \pm 0.0002 \\ \hline \textbf{CAFCM} \\ \hline \\ \textbf{21.5478} \pm \textbf{0.0000} \\ \textbf{0.7871} \pm \textbf{0.0000} \\ \textbf{0.7871} \pm \textbf{0.0000} \\ \textbf{0.7871} \pm \textbf{0.0000} \\ \textbf{0.7871} \pm \textbf{0.0000} \\ \textbf{0.0327} \pm \textbf{0.0000} \\ \textbf{0.0327} \pm \textbf{0.0000} \\ \textbf{0.0327} \pm \textbf{0.0000} \\ \textbf{0.2622} \pm \textbf{0.0000} \\ \textbf{2.1114} \pm \textbf{0.0000} \\ \textbf{0.4160} \pm \textbf{0.0000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.000000} \\ \textbf{0.000000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.000000} \\ \textbf$
WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† RLI† CHI† RTIJ DBIJ LSSRI† TWIJ  ACC† NMIT ARI† PageBlocks WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† RIIJ WGI† RIIJ WGI†	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0617 \pm 0.0125 \\ 0.01118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ \hline FCM \\ 21.8530 \pm 0.0000 \\ 0.0976 \pm 0.0000 \\ 0.07352 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.0976 \pm 0.0000 \\ 0.0976 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0356 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0356 \pm 0.0000 \\ 0.0356 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0000 \\ 0.0000 \pm 0.0000 \\ 0$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0065 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \text{MEC} \\ 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ 0.4501 \pm 0.0669 \\ 0.2499 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.0219 \pm 0.0061 \\ 0.01994 \pm 0.0177 \\ 0.7092 \pm 0.1532 \\ 4.4488 \pm 7.6595 \\ 0.1496 \pm 0.1103 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.247 \pm 0.0035 \\ 0.2565 \pm 0.0025 \\ 0.2565 \pm 0.0025 \\ 0.2973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0004 \\ 0.0582 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.9914 \pm 0.0067 \\ \hline FSC \\ 41.3223 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ 0.5007 \pm 0.0268 \\ 0.2945 \pm 0.0085 \\ 0.2945 \pm 0.0085 \\ 0.3210 \pm 0.0123 \\ 0.0010 \pm 0.0001 \\ 0.1406 \pm 0.0090 \\ 0.1743 \pm 0.0122 \\ 4.6271 \pm 1.2316 \\ 0.01145 \pm 0.1211 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0998 \pm 0.0000 \\ 0.3121 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0022 \\ 0.0025 \pm 0.0000 \\ 0.273 \pm 0.0000 \\ 0.2173 \pm 0.0001 \\ 0.0926 \pm 0.0000 \\ 0.0926 \pm 0.0000 \\ 0.0926 \pm 0.0000 \\ 0.0926 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.1003 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.05254 \pm 0.0000 \\ 0.05254 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0356 \pm 0.0001 \\ 0.0556 \pm 0.0001 \\ 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0356 \pm 0.0001 \\ 0.0000 \\ 0.01244 \pm 0.0000 \\ 0.04171 \pm 0.0000 \\ 0.4171 \pm 0.0000 \\ 0$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.01108 \pm 0.0000 \\ 1.0756 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.377 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0441 \pm 0.0308 \\ 0.3822 \pm 0.0124 \\ 0.0253 \pm 0.0179 \\ 0.0000 \pm 0.0000 \\ 0.0645 \pm 0.0235 \\ 0.0407 \pm 0.0311 \\ 1549.5546 \pm 1722.8200 \\ 0.0031 \pm 0.0075 \end{array}$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.0583 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2542 \pm 0.0000 \\ 0.5422 \pm 0.0000 \\ 0.5422 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0738 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1236 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1120 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.5291 \pm 0.0004 \\ 0.5291 \pm 0.0001 \\ 0.1077 \pm 0.0002 \\ \hline \textbf{CAFCM} \\ \hline \\ \textbf{21.5478} \pm \textbf{0.0000} \\ \textbf{0.7871} \pm \textbf{0.0000} \\ \textbf{0.7871} \pm \textbf{0.0000} \\ \textbf{0.7871} \pm \textbf{0.0000} \\ \textbf{0.7871} \pm \textbf{0.0000} \\ \textbf{0.0327} \pm \textbf{0.0000} \\ \textbf{0.0327} \pm \textbf{0.0000} \\ \textbf{0.0327} \pm \textbf{0.0000} \\ \textbf{0.2622} \pm \textbf{0.0000} \\ \textbf{2.1114} \pm \textbf{0.0000} \\ \textbf{0.4160} \pm \textbf{0.0000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.000000} \\ \textbf{0.000000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.00000} \\ \textbf{0.000000} \\ \textbf$
WGSSJ  MRIJ GPIJ BHGIT CIJ TIT DGIT RLIT RITI WGIT DIT BHIT NBIT XBIJ DBIJ LSSRIT TWIJ ACCT NMIT ARIT  PageBlocks WGSSJ  MRIJ GPIJ BHGIT CIJ TIT CHIT RITI WGIT DGIT RITI WGST CIJ TIT WGST RITI WGGT DIT RITI WGGT RITI WGGT RITI WGGT RITI WGGT RITI WGGT RITI WGGT BHIT	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \\ 0.0952 \pm 0.0096 \\ \hline FCM \\ \hline 21.8530 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.2556 \pm 0.0000 \\ 0.2556 \pm 0.0000 \\ 0.4171 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.00352 \pm 0.0000 \\ 0.00352 \pm 0.0000 \\ 0.00352 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.00352 \pm 0.0000 \\ 0.0052 \pm 0.0000 \\ 0$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0334 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1545 \pm 0.0050 \\ 0.1629 \pm 0.0110 \\ \hline {MEC} \\ \hline 34.2909 \pm 2.9662 \\ 0.451318 \pm 0.0150 \\ 0.4501 \pm 0.0669 \\ 0.4909 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.219 \pm 0.0061 \\ 0.1994 \pm 0.0117 \\ 0.7092 \pm 0.1532 \\ 4.4488 \pm 7.6595 \\ 0.1496 \pm 0.1103 \\ 0.0023 \pm 0.0006 \\ 0.0081 \pm 0.0190 \\ 0.0061 \pm $	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.2565 \pm 0.0025 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0010 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0025 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.0025 \pm 0.0004 \\ 0.0045 \pm 0.0010 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.0914 \pm 0.0007 \\ 0.0914 \pm 0.0007 \\ 0.0914 \pm 0.0007 \\ 0.0914 \pm 0.0007 \\ 0.0010 \pm 0.0001 \\ 0.1406 \pm 0.0090 \\ 0.1743 \pm 0.0122 \\ 4.6271 \pm 1.2316 \\ 0.1145 \pm 0.1211 \\ 0.0002 \pm 0.0001 \\ 0.1957 \pm 0.0211 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.4316 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.0926 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 0.55517 \pm 0.0019 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0000 \\ 0.0536 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.05556 \pm 0.0000 \\ 0.0556 \pm 0.0000 \\ 0.0004 \pm 0.0000 \\ 0.01124 \pm 0.0000 \\ 0.0004 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.00352 \pm 0.0000 \\ 0.00552 \pm 0.0000 \\ 0.0052 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.00000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.0000000000$	24.9753 ± 0.0000 0.4738 ± 0.0000 0.4738 ± 0.0000 0.0797 ± 0.0000 0.6547 ± 0.0000 0.6547 ± 0.0000 0.1327 ± 0.0000 0.096 ± 0.0000 0.2491 ± 0.0000 1.3952 ± 0.0000 1.4506 ± 0.0000 0.4250 ± 0.0000 0.010 ± 0.0000 0.010 ± 0.0000 0.0154 ± 0.0000 0.0154 ± 0.0000 0.0154 ± 0.0000 0.3531 ± 0.0000 0.3331 ± 0.0000 0.4793 ± 0.0000 0.4793 ± 0.0000 0.4793 ± 0.0000 0.4793 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.0411 ± 0.0308 0.3822 ± 0.0124 0.0253 ± 0.0179 0.0004 ± 0.0000 0.0664 ± 0.0235 0.0407 ± 0.0311 1549.5546 ± 1722.8200 0.031 ± 0.0075 0.0000± 0.0000	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0747 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0621 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0788 \pm 0.0000 \\ 0.0622 \pm 0.0000 \\ 0.0788 \pm 0.0000 \\ 0.0788 \pm 0.0000 \\ 0.0788 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.126 \pm 0.0000 \\ 0.0851 \pm 0.0052 \\ 0.0220 \pm 0.0060 \\ 0.2085 \pm 0.0155 \\ 0.8305 \pm 0.1698 \\ 0.3455 \pm 1.8063 \\ 0.1767 \pm 0.0886 \\ 0.0023 \pm 0.0007 \\ 0.0655 \pm 0.0134 \\ \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.02523 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.5291 \pm 0.0000 \\ 0.5291 \pm 0.0002 \\ \\ CAFCM \\ \hline \hline {\bf 21.5478} \pm \textbf{0.0000} \\ 0.0475 \pm 0.0000 \\ 0.0475 \pm 0.0000 \\ 0.0475 \pm 0.0000 \\ 0.0327 \pm 0.0000 \\ 0.0327 \pm 0.0000 \\ 0.0327 \pm 0.0000 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.21114 \pm 0.0000 \\ 0.4160 \pm 0.0000 \\ 0.4978 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.00378 \pm 0.0000 \\ 0.0038 \pm 0.0000 \\ 0.00678 \pm 0.0000 \\ 0.0078 \pm 0.0000 \\ 0.00678 \pm 0.0000 \\ 0.0078 \pm 0.0000 \\ 0.00000 \\ 0.0000000000000000$
WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† RII- CHI† RTIJ DBIJ DBIJ LSSRI† TWIJ  ACC† NMI† ARI† PageBlocks  WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† BHGI† CIJ TI† DGI† BHGI† CIJ TI† DGI† BHGI† CIJ TI† DGI† BHGI† CHIT RII- BHGI† CHIT	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ \hline FCM \\ 21.8530 \pm 0.0000 \\ 0.0976 \pm 0.0000 \\ 0.07369 \pm 0.0000 \\ 0.07369 \pm 0.0000 \\ 0.07369 \pm 0.0000 \\ 0.0552 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0352 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.00352 \pm 0.0000 \\ 0.00552 \pm 0.0000 \\ 0.00552 \pm 0.0000 \\ 0.00552 \pm 0.0000 \\ 0.00552 \pm 0.0000 \\ 0.00572 \pm 0.0000 \\ 0.00074 \pm 0.0000 \\ 0.000$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.0344 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \text{MEC} \\ 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ 0.4501 \pm 0.0669 \\ 0.2499 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.0219 \pm 0.0061 \\ 0.094 \pm 0.0177 \\ 0.7092 \pm 0.1532 \\ 4.4488 \pm 7.6595 \\ 0.1496 \pm 0.1103 \\ 0.0023 \pm 0.0006 \\ 0.0681 \pm 0.0190 \\ 0.0202 \pm 0.0061 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.247 \pm 0.0035 \\ 0.2565 \pm 0.0025 \\ 0.2565 \pm 0.0025 \\ 0.973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.9914 \pm 0.0067 \\ \hline FSC \\ 41.3223 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ 0.5007 \pm 0.0268 \\ 0.2945 \pm 0.0085 \\ 0.3210 \pm 0.0123 \\ 0.0010 \pm 0.0001 \\ 0.1145 \pm 0.0121 \\ 0.0002 \pm 0.0000 \\ 0.1743 \pm 0.0121 \\ 0.0002 \pm 0.0000 \\ 0.1145 \pm 0.1211 \\ 0.0002 \pm 0.0000 \\ 0.1957 \pm 0.0210 \\ 0.0023 \pm 0.0000 \\ 0.1957 \pm 0.0211 \\ 0.0023 \pm 0.0000 \\ 0.1957 \pm 0.0210 \\ 0.0023 \pm 0.0000 \\ 0.1957 \pm 0.0211 \\ 0.0023 \pm 0.0000 \\ 0.1957 \pm 0.0215 \\ 0.0023 \pm 0.0080 \\ \hline \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.3121 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0022 \\ 0.0025 \pm 0.0000 \\ 0.2173 \pm 0.0001 \\ 0.0926 \pm 0.0000 \\ 0.0926 \pm 0.0001 \\ 0.0926 \pm 0.0001 \\ 0.0926 \pm 0.0001 \\ 0.0557 \pm 0.0006 \\ 8.5517 \pm 0.0019 \\ 0.7193 \pm 0.0001 \\ 0.1003 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.0528 \pm 0.0000 \\ 0.0528 \pm 0.0000 \\ 0.0528 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0344 \pm 0.0000 \\ 0.0352 \pm 0.0000 \\ 0.0343 \pm 0.0000 \\ 0.00344 \pm 0.0000 \\ 0.00352 \pm 0.0000 \\ 0.00052 \pm 0.0000 \\ 0.00052 \pm 0.0000 \\ 0.00051 \pm 0.0000 \\ 0.00052 \pm 0.0000 \\ 0.00052 \pm 0.0000 \\ 0.00000 \\ 0.00052 \pm 0.0000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.0000000 \\ 0.00000 \\ 0.00000 \\ 0.000000 \\ 0.000000 \\ 0.00000000$	24.9753 ± 0.0000 0.4738 ± 0.0000 0.4738 ± 0.0000 0.0797 ± 0.0000 0.6547 ± 0.0000 0.1327 ± 0.0000 0.0096 ± 0.0000 0.0096 ± 0.0000 1.4506 ± 0.0000 1.4506 ± 0.0000 0.0010 ± 0.0000 0.010 ± 0.0000 0.0554 ± 0.0000 0.010 ± 0.0000 0.1108 ± 0.0000 1.7756 ± 0.0000 1.7756 ± 0.0000 1.7756 ± 0.0000 0.3331 ± 0.0000 0.4793 ± 0.0000 0.4793 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0000 0.1737 ± 0.0010 0.1737 ± 0.0010 0.0866 ± 0.0000 0.1737 ± 0.0010 0.0441 ± 0.0308 0.3822 ± 0.0124 0.0233 ± 0.0179 0.0000± 0.0000 0.0645 ± 0.0235 0.0407 ± 0.031 0.0645 ± 0.0235 0.0407 ± 0.031 0.0001 ± 0.0015 0.0001 ± 0.0001 0.0004 ± 0.0001 0.00000 0.1204 ± 0.0021 0.0002 ± 0.0021	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.0583 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2542 \pm 0.0000 \\ 0.5422 \pm 0.0000 \\ 0.5422 \pm 0.0000 \\ 0.5422 \pm 0.0000 \\ 0.0545 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.0067 \pm 0.0000 \\ 0.0738 \pm 0.0000 \\ 0.0738 \pm 0.0000 \\ 0.0738 \pm 0.0000 \\ 0.0738 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.0000 \pm 0.0523 \\ 0.0000 \pm 0.0523 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.0000000000$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.0262 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.190000 \\ 0.190000 \\ 0.190000 \\ 0.190000 \\ 0.207 \pm 0.0000 \\ 0.3976 \pm 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0000 \\ 0.2591 \pm 0.0001 \\ 0.1077 \pm 0.0002 \\ 0.0001 \\ 0.0001 \\ 0.2591 \pm 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0001 \\ 0.0000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.00000 \\ 0.000000 \\ 0.00000000$
WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† RLI† RHI† RHI† RHI† RHI† RHI† RHI† RHI† RH	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 2.0879 \pm 0.0443 \\ 0.6878 \pm 0.1753 \\ 0.0617 \pm 0.0125 \\ 0.0118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \\ 0.0952 \pm 0.0096 \\ \hline FCM \\ \hline 21.8530 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0555 \pm 0.0000 \\ 0.1124 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.00352 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.1046 \pm 0.0000 \\ 0.11062 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.11062 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.11062 \pm 0.0$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0055 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.4785 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0034 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.4275 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.1545 \pm 0.0669 \\ 0.1545 \pm 0.0050 \\ 0.1629 \pm 0.0110 \\ \hline {\rm MEC} \\ \hline 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ 0.4501 \pm 0.0669 \\ 0.2499 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.1994 \pm 0.0177 \\ 0.7092 \pm 0.1533 \\ 0.44488 \pm 7.6595 \\ 0.1496 \pm 0.1103 \\ 0.0023 \pm 0.0006 \\ 0.0061 \pm 0.0190 \\ 0.0020 \pm 0.0061 \\ 0.0020 \pm 0.00061 \\ 0.0081 \pm 0.0130 \\ 0.0023 \pm 0.0006 \\ 0.0081 \pm 0.0100 \\ 0.0020 \pm 0.00061 \\ 0.0081 \pm 0.0100 \\ $	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.2565 \pm 0.0025 \\ 0.2565 \pm 0.0025 \\ 0.27428 \pm 0.1425 \\ 0.0247 \pm 0.0036 \\ 0.0247 \pm 0.0036 \\ 0.0247 \pm 0.0036 \\ 0.0247 \pm 0.0025 \\ 0.07428 \pm 0.1425 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.0267 \pm 0.0021 \\ 0.0267 \pm 0.0021 \\ 0.0267 \pm 0.0021 \\ 0.0267 \pm 0.0021 \\ 0.02681 \pm 0.0029 \\ 0.1323 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ 0.5007 \pm 0.0268 \\ 0.2945 \pm 0.0085 \\ 0.3210 \pm 0.0123 \\ 0.0010 \pm 0.0001 \\ 0.1406 \pm 0.0090 \\ 0.1743 \pm 0.0124 \\ 4.6271 \pm 1.2316 \\ 0.1145 \pm 0.1211 \\ 0.0002 \pm 0.0000 \\ 0.1957 \pm 0.0211 \\ 0.0223 \pm 0.0080 \\ 13.95871 \pm 9.2299 \\ 3.5630 \pm 0.4570 \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.4316 \pm 0.0002 \\ 0.0025 \pm 0.0000 \\ 0.2173 \pm 0.0000 \\ 0.0926 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 0.5657 \pm 0.0000 \\ 0.5657 \pm 0.0019 \\ 0.7193 \pm 0.0001 \\ 0.0528 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.0528 \pm 0.0000 \\ 0.0536 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.01406 \pm 0.0000 \\ 0.01411 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.01466 \pm 0.0000 \\ 0.11062 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.00000 \\ 0.00000 \pm 0.00000 \\ 0.000000 \pm 0.00000 \\ 0.000000000 \\ 0.0000000000$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.0110 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 0.1756 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0474 \pm 0.0000 \\ 0.0441 \pm 0.0308 \\ 0.0441 \pm 0.0308 \\ 0.0441 \pm 0.0308 \\ 0.0441 \pm 0.0308 \\ 0.0000 \pm 0.0010 \\ 0.0004 \pm 0.0011 \\ 0.0004 \pm 0.0011 \\ 0.0004 \pm 0.0031 \\ 0.0004 \pm 0.0031 \\ 0.0004 \pm 0.0001 \\ 0.0004 \pm 0.0001 \\ 0.0004 \pm 0.0001 \\ 0.0004 \pm 0.0001 \\ 0.0004 \pm 0.0021 \\ 0.0004 \pm 0.0001 \\ 0.0004 \pm $	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.5412 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.0546 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0747 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0621 \pm 0.0000 \\ 0.0788 \pm 0.0000 \\ 0.0798 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.203 \pm 0.0000 \\ 0.203 \pm 0.0052 \\ 0.203 \pm 0.0053 \\ 0.0003 \pm 0.0007 \\ 0.0055 \pm 0.0155 \\ 0.0053 \pm 0.0155 \\ 0.0053 \pm 0.0007 \\ 0.0055 \pm 0.0134 \\ 0.0249 \pm 0.0082 \\ 0.6332 \pm 0.4108 \\ 1.4613 \pm 0.2929 \\ \end{array}$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.7474 \pm 0.0000 \\ 0.5291 \pm 0.0004 \\ 0.1505 \pm 0.0001 \\ 0.1077 \pm 0.0002 \\ \hline \textbf{CAFCM} \\ \hline \\ \textbf{21.5478} \pm \textbf{0.0000} \\ \textbf{0.0327} \pm \textbf{0.0000} \\ \textbf{0.2622} \pm \textbf{0.0000} \\ \textbf{0.4160} \pm \textbf{0.0000} \\ \textbf{0.4160} \pm \textbf{0.0000} \\ \textbf{0.4978} \pm \textbf{0.0000} \\ \textbf{0.0034} \pm \textbf{0.0000} \\ \textbf{0.0034} \pm \textbf{0.0000} \\ \textbf{0.00378} \pm \textbf{0.0000} \\ \textbf{0.1323} \pm \textbf{0.0000} \\ \textbf{0.1190} \pm \textbf{0.0000} \\ \textbf{0.1323} \pm \textbf{0.0000} \\ \textbf{0.1190} \pm \textbf{0.0000} \\ 0$
WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† RLI† CHI† RTIJ DBIJ LSSRI† TWIJ  ACC† NMI† ARI† PageBlocks WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† RTIJ BHGI† CXBIJ DBIJ LSSRI† TWIJ  ACC† NMIT ARI† PageBlocks WGSSJ  MRIJ GPIJ BHGI† CIJ TI† DGI† RII† CHI† RTIJ WGI† DI† SBIJ DBIJ LSSRI†	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.0879 \pm 0.00443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0617 \pm 0.0125 \\ 0.01118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ \hline FCM \\ 21.8530 \pm 0.0000 \\ 0.0976 \pm 0.0000 \\ 0.0332 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.0976 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.00000 \\ 0.0000000000$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.0344 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \text{MEC} \\ 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ 0.4501 \pm 0.0669 \\ 0.2499 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.0219 \pm 0.0061 \\ 0.1994 \pm 0.0177 \\ 0.7092 \pm 0.1532 \\ 4.4488 \pm 7.6595 \\ 0.1496 \pm 0.1103 \\ 0.0023 \pm 0.0006 \\ 0.0681 \pm 0.0190 \\ 0.0202 \pm 0.0061 \\ 1.3735 \pm 5.1380 \\ 1.6489 \pm 0.5322 \\ -0.4349 \pm 0.2160 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ \hline 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.247 \pm 0.0035 \\ 0.2565 \pm 0.0025 \\ 0.2565 \pm 0.0025 \\ 0.2973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7406 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.914 \pm 0.0067 \\ \hline FSC \\ 41.3223 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ 0.5007 \pm 0.0268 \\ 0.2945 \pm 0.0085 \\ 0.3210 \pm 0.0123 \\ 0.0010 \pm 0.0001 \\ 0.1145 \pm 0.1211 \\ 0.0002 \pm 0.0000 \\ 0.1743 \pm 0.121 \\ 0.0012 \pm 0.0000 \\ 0.1743 \pm 0.121 \\ 0.0002 \pm 0.0000 \\ 0.1957 \pm 0.0211 \\ 0.0023 \pm 0.0080 \\ 139.8571 \pm 9.2299 \\ 3.5630 \pm 0.4570 \\ -1.7495 \pm 0.0680 \\ \end{array}$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.3121 \pm 0.0000 \\ 0.5580 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0020 \\ 0.025 \pm 0.0000 \\ 0.2173 \pm 0.0001 \\ 0.0926 \pm 0.0000 \\ 0.0926 \pm 0.0001 \\ 0.0551 \pm 0.0001 \\ 0.0103 \pm 0.0001 \\ 0.0103 \pm 0.0000 \\ 0.0528 \pm 0.0000 \\ 0.0528 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.0004 \pm 0.0000 \\ 0.00552 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.7206 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.00000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.0000000 \pm 0.0000 \\ 0.00000000 \\ 0.0000000$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.0096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.0108 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 1.7756 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.377 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0441 \pm 0.0308 \\ 0.3822 \pm 0.0124 \\ 0.0253 \pm 0.0179 \\ 0.0002 \pm 0.0001 \\ 0.0645 \pm 0.0235 \\ 0.0407 \pm 0.0311 \\ 1549.5546 \pm 1722.8200 \\ 0.0031 \pm 0.0075 \\ 0.0000 \pm 0.0000 \\ 0.1204 \pm 0.0021 \\ 0.0024 \pm 0.0021 \\ 0.0024 \pm 0.0041 \\ 0.0024 \pm 0.0038 \\ 0.0024 \pm 0.0041 \\ 0.0024 \pm 0.0041 \\ 0.0024 \pm 0.0038 \\ 0.0024 \pm 0.0041 \\ 0.0024 \pm 0.0041 \\ 0.0024 \pm 0.0041 \\ 0.0024 \pm 0.0038 \\ 0.0000 \\ 0.000000000 \\ 0.00000000000$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.0583 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0738 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.0000 \pm 0.0523 \\ 0.0007 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.0000000 \\ 0.0000000 \pm 0.0000 \\ 0.0000000000$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.0745 \pm 0.0001 \\ 0.5253 \pm 0.0001 \\ 0.327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.190000 \\ 0.190000 \\ 0.190000 \\ 0.1524 \pm 0.0000 \\ 0.1525 \pm 0.0000 \\ 0.1525 \pm 0.0000 \\ 0.2591 \pm 0.0004 \\ 0.1505 \pm 0.0001 \\ 0.1077 \pm 0.0002 \\ \text{CAFCM} \\ \hline \textbf{21.5478} \pm \textbf{0.0000} \\ \textbf{0.3973} \pm \textbf{0.0000} \\ \textbf{0.7871} \pm \textbf{0.0000} \\ \textbf{0.2622} \pm \textbf{0.0000} \\ \textbf{0.327} \pm \textbf{0.0000} \\ \textbf{0.327} \pm \textbf{0.0000} \\ \textbf{0.314} \pm \textbf{0.0000} \\ \textbf{0.4160} \pm \textbf{0.0000} \\ \textbf{0.1190} \pm \textbf{0.0000} \\ \textbf{0.0034} \pm \textbf{0.0000} \\ \textbf{0.00034} \pm \textbf{0.0000} \\ \textbf{0.00034} \pm \textbf{0.0000} \\ \textbf{0.00044} \pm \textbf{0.0000} \\ \textbf{0.00034} \pm \textbf{0.0000} \\ \textbf{0.00034} \pm \textbf{0.0000} \\ \textbf{0.0000} -\textbf{0.1206} \pm \textbf{0.0000} \\ \textbf{0.1190} \pm \textbf{0.0000} \\ \textbf{0.7474} \pm \textbf{0.00000} \\ \textbf{0.7474} \pm \textbf{0.0000} \\ \textbf{0.7474} \pm \textbf{0.00000} \\ \textbf{0.7474} \pm \textbf{0.00000} \\ \textbf{0.7474} \pm $
WGSSJ  MRIJ GPIJ BHGI CIJ TIT DGIT RLIT RTIJ WGIT DI BHIT PBMIT XBIJ LSSRIT TWIJ ACCT NMIT ARIT PageBlocks WGSSJ MRIJ GPIJ BHGIT CIJ TIT DGIT RLIT BHGIT CIJ TIT DGIT RLIT BHGIT CIJ TIT DGIT RLIT RTIJ BHGIT CIJ TIT DGIT RLIT RTIJ BHGIT CHIT RTIJ BHGIT CHIT RTIJ BHGIT TWIJ LSSRIT TWIJ LSSRIT TWIJ RIT RIT RIT RTIJ RTIJ RTIJ RTIJ RTIJ	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.20879 \pm 0.0443 \\ 0.0617 \pm 0.0125 \\ 0.0617 \pm 0.0125 \\ 0.1118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0039 \\ 0.0952 \pm 0.0096 \\ \hline {FCM} \\ 21.8530 \pm 0.0000 \\ 0.4232 \pm 0.0000 \\ 0.04326 \pm 0.0000 \\ 0.04366 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0352 \pm 0.0000 \\ 0.0352 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.0352 \pm 0.0000 \\ 0.0344 \pm 0.0000 \\ 0.0552 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.0034 \pm 0.0000 \\ 0.0047 \pm 0.0000 \\ 0.0048 \pm$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 0.05115 \pm 0.0937 \\ 0.4785 \pm 0.0275 \\ 0.4785 \pm 0.0275 \\ 0.0344 \pm 0.0012 \\ 0.0794 \pm 0.0755 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.0794 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \text{MEC} \\ 34.2909 \pm 2.9662 \\ 0.2499 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.0194 \pm 0.0177 \\ 0.07992 \pm 0.1532 \\ 4.4488 \pm 7.6595 \\ 0.1496 \pm 0.1103 \\ 0.0023 \pm 0.0006 \\ 0.0081 \pm 0.0100 \\ 0.0081 \pm 0.0061 \\ 0.0003 \pm 0.0061 \\ 0.0081 \pm 0.$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0021 \\ 0.7408 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0041 \\ 0.0582 \pm 0.0045 \\ 0.0582 \pm 0.0045 \\ 0.0582 \pm 0.0045 \\ 0.0582 \pm 0.0045 \\ 0.0029 \pm 0.0029 \\ 0.3210 \pm 0.0029 \\ 0.1014 \pm 0.0067 \\ 0.0018 \pm 0.0012 \\ 0.0018 \pm 0.0012 \\ 0.0018 \pm 0.0012 \\ 0.0010 \pm 0.0010 \\ 0.1145 \pm 0.0012 \\ 0.0010 \pm 0.0010 \\ 0.1145 \pm 0.1211 \\ 0.0002 \pm 0.0000 \\ 0.1957 \pm 0.0211 \\ 0.0023 \pm 0.0080 \\ 139.8571 \pm 9.2299 \\ 3.5630 \pm 0.0176 \\ 0.0176 \pm 0.0176 \\ 0.0018 \pm 0.0080 \\ 1.7495 \pm 0.0080 \\ 1.0023 \pm 0.0080 \\ 1.1450 \pm 0.0080 \\ 1.1450 \pm 0.0080 \\ 1.14502 \pm 0.0176 \\ 0.01176 \\ 0.018 \pm 0.0012 \\ 0.0001 \pm 0.0010 \\ 0.1957 \pm 0.0218 \\ 0.0080 \\ 1.0023 \pm 0.0080 \\ 1.0023 \pm 0.0080 \\ 1.0023 \pm 0.0080 \\ 1.0023 \pm 0.0176 \\ 0.01176 \\ 0.018 \pm 0.0012 \\ 0.0018 \pm 0.$	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0038 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0029 \\ 0.0025 \pm 0.0000 \\ 0.025 \pm 0.0000 \\ 0.0225 \pm 0.0000 \\ 0.6293 \pm 0.0001 \\ 0.5657 \pm 0.0006 \\ 8.5517 \pm 0.0016 \\ 0.7193 \pm 0.0001 \\ 0.7193 \pm 0.0001 \\ 0.0228 \pm 0.0001 \\ 2PFCM \\ 21.8530 \pm 0.0001 \\ 0.0522 \pm 0.0000 \\ 0.04232 \pm 0.0000 \\ 0.0532 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.07141 \pm 0.$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.0101 \pm 0.0000 \\ 0.0514 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 0.1736 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.4793 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.1857 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.0253 \pm 0.0179 \\ 0.0000 \pm 0.0000 \\ 0.00124 \pm 0.0031 \\ 0.00124 \pm 0.0031 \\ 0.00124 \pm 0.0021 \\ 0.0001 \pm 0.0001 \\ 0.0024 \pm 0.0001 \\ 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.7583 \pm 0.0000 \\ 0.0589 \pm 0.0000 \\ 0.5102 \pm 0.0000 \\ 0.610 \pm 0.0000 \\ 0.610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.4269 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.1052 \pm 0.0000 \\ 0.0586 \pm 0.0000 \\ 0.1062 \pm 0.0000 \\ 0.1078 \pm 0.0000 \\ 0.1082 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.5387 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1161 \pm 0.0184 \\ 0.4788 \pm 0.0757 \\ 0.2203 \pm 0.0053 \\ 0.0203 \pm 0.0155 \\ 0.8305 \pm 0.1698 \\ 2.3455 \pm 1.8063 \\ 0.1767 \pm 0.0886 \\ 0.0023 \pm 0.0007 \\ 0.0655 \pm 0.0134 \\ 0.0249 \pm 0.0082 \\ 0.6332 \pm 0.4108 \\ 1.4613 \pm 0.2929 \\ 0.2110 \pm 0.1899 \\ 7.4034 \pm 0.6250 \\ \end{array}$	21.5478 ± 0.0000 0.3974 ± 0.0001 0.0476 ± 0.0000 0.7867 ± 0.0002 0.7867 ± 0.0002 0.7867 ± 0.0002 0.0745 ± 0.0002 0.0327 ± 0.0000 0.2622 ± 0.0000 2.1114 ± 0.0000 0.4976 ± 0.0001 0.0034 ± 0.0000 0.1324 ± 0.0000 0.1324 ± 0.0000 0.1324 ± 0.0000 0.1324 ± 0.0000 0.17474 ± 0.0000 0.5291 ± 0.0000 0.5291 ± 0.0001 0.1077 ± 0.0000 0.3973 ± 0.0000 0.3735 ± 0.0000 0.3735 ± 0.0000 0.3735 ± 0.0000 0.3741 ± 0.0000 0.3741 ± 0.0000 0.327 ± 0.0000 0.034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000 0.0034 ± 0.0000
WGSSJ  MRIJ GPIJ BHGIT CIJ TIT DGIT RIIJ WGIT DIT BHIT NBIJ LSSRIT TWIJ  ACCT NMIT ARIT ARIT BHGIT CHIT RIIJ ACCT NMIT ARIT THI ACCT NMIT ARIT BHGIT CIJ TIT DGIT RIIJ BHGIT CIJ TIT DGIT RIIT RIIJ BHGIT CHIT RIIJ BHGIT RIIJ BHG	$\begin{array}{c} 21.7169 \pm 0.3282 \\ 0.4072 \pm 0.0058 \\ 0.0504 \pm 0.0019 \\ 0.7577 \pm 0.0172 \\ 0.0840 \pm 0.0055 \\ 0.4893 \pm 0.0231 \\ 0.0243 \pm 0.0068 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.2586 \pm 0.0086 \\ 0.0879 \pm 0.00443 \\ 0.6878 \pm 0.1753 \\ 0.4604 \pm 0.0249 \\ 0.0025 \pm 0.0008 \\ 0.0617 \pm 0.0125 \\ 0.01118 \pm 0.0137 \\ 0.3369 \pm 0.1914 \\ 1.0248 \pm 0.0060 \\ 0.7359 \pm 0.0221 \\ 4.3434 \pm 0.0656 \\ 0.4416 \pm 0.0588 \\ 0.1529 \pm 0.0096 \\ \hline FCM \\ 21.8530 \pm 0.0000 \\ 0.0976 \pm 0.0000 \\ 0.0332 \pm 0.0000 \\ 0.07142 \pm 0.0000 \\ 0.0976 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.00000 \\ 0.0000000000$	$\begin{array}{c} 22.1370 \pm 0.6964 \\ 0.4087 \pm 0.0072 \\ 0.0517 \pm 0.0033 \\ 0.7617 \pm 0.0154 \\ 0.0840 \pm 0.0055 \\ 0.5023 \pm 0.0221 \\ 0.0247 \pm 0.0068 \\ 0.2711 \pm 0.021 \\ 2.0315 \pm 0.0937 \\ 0.5812 \pm 0.1759 \\ 0.0344 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.0343 \pm 0.0012 \\ 0.0794 \pm 0.0275 \\ 0.1583 \pm 0.0829 \\ 0.2285 \pm 0.1610 \\ 0.9943 \pm 0.0669 \\ 0.7077 \pm 0.0468 \\ 4.4274 \pm 0.1393 \\ 0.4822 \pm 0.0625 \\ 0.1545 \pm 0.0050 \\ 0.1029 \pm 0.0110 \\ \text{MEC} \\ 34.2909 \pm 2.9662 \\ 0.6254 \pm 0.0476 \\ 0.1318 \pm 0.0150 \\ 0.4501 \pm 0.0669 \\ 0.2499 \pm 0.0330 \\ 0.3122 \pm 0.0487 \\ 0.0219 \pm 0.0061 \\ 0.1994 \pm 0.0177 \\ 0.7092 \pm 0.1532 \\ 4.4488 \pm 7.6595 \\ 0.1496 \pm 0.1103 \\ 0.0023 \pm 0.0006 \\ 0.0681 \pm 0.0190 \\ 0.0202 \pm 0.0061 \\ 1.3735 \pm 5.1380 \\ 1.6489 \pm 0.5322 \\ -0.4349 \pm 0.2160 \\ \end{array}$	$\begin{array}{c} 21.6463 \pm 0.0431 \\ 0.4080 \pm 0.0046 \\ 0.0504 \pm 0.0012 \\ 0.7533 \pm 0.0144 \\ 0.0852 \pm 0.0046 \\ 0.0852 \pm 0.0046 \\ 0.4821 \pm 0.0186 \\ 0.0247 \pm 0.0036 \\ 0.2565 \pm 0.0025 \\ 2.0973 \pm 0.0062 \\ 0.7428 \pm 0.1425 \\ 0.4523 \pm 0.0197 \\ 0.0025 \pm 0.0004 \\ 0.0582 \pm 0.0041 \\ 0.0582 \pm 0.0041 \\ 0.1090 \pm 0.0100 \\ 0.2881 \pm 0.0746 \\ 1.0267 \pm 0.0029 \\ 4.3293 \pm 0.0086 \\ 0.4222 \pm 0.0463 \\ 0.1514 \pm 0.0007 \\ 0.0914 \pm 0.0067 \\ \hline FSC \\ 41.3223 \pm 1.1842 \\ 0.5970 \pm 0.0128 \\ 0.1031 \pm 0.0095 \\ 0.2945 \pm 0.0085 \\ 0.3210 \pm 0.0123 \\ 0.0010 \pm 0.0010 \\ 0.1406 \pm 0.0090 \\ 0.1743 \pm 0.0124 \\ 4.6271 \pm 1.2316 \\ 0.01123 \\ 0.0100 \pm 0.0001 \\ 0.1406 \pm 0.0090 \\ 0.1743 \pm 0.0124 \\ 4.6271 \pm 1.2316 \\ 0.1145 \pm 0.1211 \\ 0.0002 \pm 0.0000 \\ 1.1957 \pm 0.0211 \\ 0.0223 \pm 0.0080 \\ 139.8571 \pm 9.2299 \\ 3.5630 \pm 0.4570 \\ -1.7495 \pm 0.0680 \\ 11.4202 \pm 0.1176 \\ \textbf{0.8457} \pm 0.0116 \\ \textbf{0.8457} \pm 0.0116 \\ \textbf{0.8457} \pm 0.0113 \\ \textbf{0.8457} \pm 0.0113 \\ \textbf{0.8457} \pm 0.0116 \\ \textbf{0.8457} \pm 0.0113 \\ \textbf{0.8457} \pm 0.0116 \\ \textbf{0.8457} \pm 0.0116 \\ \textbf{0.8457} \pm 0.0113 \\ \textbf{0.8457} \pm 0.0116 \\ \textbf{0.8457} \pm 0.0113 \\ \textbf{0.8457} \pm 0.0116 \\ $	$\begin{array}{c} 38.1295 \pm 0.0053 \\ 0.5264 \pm 0.0001 \\ 0.0892 \pm 0.0001 \\ 0.6198 \pm 0.0003 \\ 0.2051 \pm 0.0001 \\ 0.4247 \pm 0.0002 \\ 0.0098 \pm 0.0000 \\ 0.3121 \pm 0.0000 \\ 0.5580 \pm 0.0000 \\ 0.5680 \pm 0.0003 \\ 0.7824 \pm 0.0020 \\ 0.025 \pm 0.0000 \\ 0.2173 \pm 0.0001 \\ 0.0926 \pm 0.0000 \\ 0.0926 \pm 0.0001 \\ 0.0551 \pm 0.0001 \\ 0.0103 \pm 0.0001 \\ 0.0103 \pm 0.0000 \\ 0.0528 \pm 0.0000 \\ 0.0528 \pm 0.0000 \\ 0.0342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.00342 \pm 0.0000 \\ 0.0004 \pm 0.0000 \\ 0.00552 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.1047 \pm 0.0000 \\ 0.7206 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.00000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.0000000 \pm 0.0000 \\ 0.00000000 \\ 0.0000000$	$\begin{array}{c} 24.9753 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.4738 \pm 0.0000 \\ 0.0797 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.6547 \pm 0.0000 \\ 0.1327 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.096 \pm 0.0000 \\ 0.2491 \pm 0.0000 \\ 1.3952 \pm 0.0000 \\ 1.4506 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.010 \pm 0.0000 \\ 0.0110 \pm 0.0000 \\ 0.0554 \pm 0.0000 \\ 0.1108 \pm 0.0000 \\ 0.1756 \pm 0.0000 \\ 1.0918 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3331 \pm 0.0000 \\ 0.3756 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.1737 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0866 \pm 0.0000 \\ 0.0441 \pm 0.0308 \\ 0.0441 \pm 0.0308 \\ 0.0441 \pm 0.0308 \\ 0.0001 \pm 0.0019 \\ 0.0001 \pm 0.0019 \\ 0.00024 \pm 0.0011 \\ 0.0001 \pm 0.0011 \\ 0.0001 \pm 0.0011 \\ 0.0001 \pm 0.0011 \\ 0.00024 \pm 0.0011 \\ 0.0024 \pm 0.0021 \\ 0.0024 \pm 0.0041 \\ 0.0024 \pm 0.0041 \\ 0.0041 \pm 0.0031 \\ 0.1204 \pm 0.0001 \\ 0.1204 \pm 0.0001 \\ 0.0024 \pm 0.0041 \\ 0.0214 \pm 0.0021 \\ 0.0024 \pm 0.0041 \\ 0.0031 \pm 0.0075 \\ 0.00024 \pm 0.0041 \\ 0.0041 \pm 0.0021 \\ 0.0024 \pm 0.0041 \\ 0.0031 \pm 0.0075 \\ 0.0004 \pm 0.0001 \\ 0.0241 \pm 0.0011 \\ 0.0046 \pm 0.0052 \\ 0.0046 \pm 0.00052 \\ 0.0046 \pm 0.0052 \\ 0.0066 \pm 0.0060 \\ 0.0066 \pm 0.0052 \\ 0.0066 \pm 0.0052 \\ 0.0066 \pm 0.0052 \\ 0.0066 \pm 0.0060 \\ 0.0066 \pm 0.0052 \\ 0.006$	$\begin{array}{c} 22.5422 \pm 0.0000 \\ 0.4167 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.0547 \pm 0.0000 \\ 0.0583 \pm 0.0000 \\ 0.05102 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.0610 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.2541 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.5442 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.04269 \pm 0.0000 \\ 0.0478 \pm 0.0000 \\ 0.0738 \pm 0.0000 \\ 0.1578 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.1226 \pm 0.0000 \\ 0.0000 \pm 0.0523 \\ 0.0007 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.00000 \pm 0.0000 \\ 0.000000 \pm 0.0000 \\ 0.0000000 \\ 0.0000000 \pm 0.0000 \\ 0.0000000000$	$\begin{array}{c} \textbf{21.5478} \pm \textbf{0.0000} \\ 0.3974 \pm 0.0001 \\ 0.0476 \pm 0.0000 \\ 0.7867 \pm 0.0002 \\ 0.0745 \pm 0.0001 \\ 0.0327 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.2622 \pm 0.0000 \\ 0.4168 \pm 0.0003 \\ 0.4976 \pm 0.0001 \\ 0.0034 \pm 0.0000 \\ 0.0678 \pm 0.0000 \\ 0.1324 \pm 0.0000 \\ 0.0474 \pm 0.0000 \\ 0.5291 \pm 0.0004 \\ 0.1077 \pm 0.0002 \\ \hline \textbf{CAFCM} \\ \hline \\ \textbf{21.5478} \pm \textbf{0.0000} \\ \textbf{0.0327} \pm 0.0000 \\ \textbf{0.0475} \pm 0.0000 \\ \textbf{0.0327} \pm 0.0000 \\ \textbf{0.0327} \pm 0.0000 \\ \textbf{0.0327} \pm 0.0000 \\ \textbf{0.0327} \pm 0.0000 \\ \textbf{0.0478} \pm 0.0000 \\ \textbf{0.0327} \pm 0.0000 \\ \textbf{0.1144} \pm \textbf{0.0000} \\ \textbf{0.0478} \pm \textbf{0.0000} \\ \textbf{0.1323} \pm \textbf{0.0000} \\ \textbf{0.1506} \pm \textbf{0.0000} \\ \textbf{0.5302} \pm \textbf{0.0000} \\ \textbf{0.1506} \pm \textbf{0.0000} \\ 0.$

TABLE IV THE MEAN VALUES AND STANDARD DEVIATIONS OF INTERNAL AND EXTERNAL CLUSTER VALIDITY INDICES RESULTING FROM CAFCM, AND THIRTEEN BASELINES ON TEXTURE AND OPTDIGITS, WHERE N=3 and M=15 in CAPKM++2.0 and CAFCM on Texture, and N=2 and M=5 in CAPKM++2.0 and CAFCM on Optdigits.

Texture	KM	KM++	PKM	EWPKM	SC	HC	CAPKM++2.0
WGSS↓	16.3911 ± 1.0559	$15.9094 \pm 0.6088$	$15.6292 \pm 0.0044$	$15.6776 \pm 0.0029$	$19.2342 \pm 0.4501$	$16.1971 \pm 0.0000$	$15.5736 \pm 0.0004$
MRI↓ GPI↓	$\begin{array}{c} 0.3433 \pm 0.0135 \\ 0.0097 \pm 0.0022 \end{array}$	$\begin{array}{c} 0.3375 \pm 0.0085 \\ 0.0087 \pm 0.0014 \end{array}$	$\begin{array}{c} 0.3337 \pm 0.0003 \\ 0.0081 \pm 0.0000 \end{array}$	$\begin{array}{c} 0.3345 \pm 0.0001 \\ 0.0082 \pm 0.0000 \end{array}$	$\begin{array}{c} 0.4125 \pm 0.0172 \\ 0.0246 \pm 0.0054 \end{array}$	$\begin{array}{c} 0.3535 \pm 0.0000 \\ 0.0115 \pm 0.0000 \end{array}$	$\begin{array}{c} 0.3332 \pm 0.0003 \\ \hline \textbf{0.0079} \pm \textbf{0.0000} \end{array}$
BHGI↑ CI↓	$0.8995 \pm 0.0186  0.0373 \pm 0.0064$	$0.9092 \pm 0.0128$ $0.0338 \pm 0.0045$	$\frac{0.9139 \pm 0.0002}{0.0323 \pm 0.0001}$	$0.9136 \pm 0.0001$ $0.0326 \pm 0.0000$	$0.7962 \pm 0.0262$ $0.0709 \pm 0.0098$	$0.8921 \pm 0.0000$ $0.0389 \pm 0.0000$	$\begin{array}{c} 0.9199 \pm 0.0002 \\ 0.0300 \pm 0.0001 \end{array}$
TI↑	$0.3940 \pm 0.0138$ $0.1157 \pm 0.0175$	$0.3986 \pm 0.0126$ $0.1173 \pm 0.0210$	$\begin{array}{c} 0.3970 \pm 0.0008 \\ 0.0996 \pm 0.0194 \end{array}$	$0.3977 \pm 0.0002$ $0.1064 \pm 0.0001$	$0.3895 \pm 0.0052$ $0.1294 \pm 0.0043$	$0.4127 \pm 0.0000$	$0.4095 \pm 0.0005$
DGI↑ RLI↑	$0.1137 \pm 0.0173$ $0.2777 \pm 0.0023$	$0.1173 \pm 0.0210$ $0.2787 \pm 0.0013$	$0.0996 \pm 0.0194$ $0.2793 \pm 0.0000$	$0.1064 \pm 0.0001$ $0.2795 \pm 0.0000$	$\frac{0.1294 \pm 0.0043}{0.2702 \pm 0.0025}$	$0.2607 \pm 0.0000$ $0.2764 \pm 0.0000$	$0.1067 \pm 0.0288 \\ 0.2793 \pm 0.0000$
CHI↑ RTI↓	$7.0583 \pm 0.4753$ $1.0800 \pm 0.5900$	$7.2822 \pm 0.2871$ $0.8433 \pm 0.2548$	$7.4197 \pm 0.0024$ $0.7606 \pm 0.0477$	$7.3306 \pm 0.0022$ $0.6440 \pm 0.0070$	$5.0688 \pm 0.3170$ $2.2327 \pm 0.2134$	$6.5713 \pm 0.0000$ $0.8343 \pm 0.0000$	$\frac{7.4498 \pm 0.0002}{0.6207 \pm 0.0091}$
WGİ↑	$0.4006 \pm 0.0169$	$0.4075 \pm 0.0119$	$0.4072 \pm 0.0009$	$0.4007 \pm 0.0003$	$0.3109 \pm 0.0107$	$0.3707 \pm 0.0000$	$0.4125 \pm 0.0005$
DI↑ BHI↑	$0.0178 \pm 0.0036$ $0.1312 \pm 0.0082$	$\frac{0.0201 \pm 0.0043}{0.1371 \pm 0.0073}$	$0.0190 \pm 0.0032$ $0.1421 \pm 0.0024$	$0.0199 \pm 0.0000$ $0.1405 \pm 0.0001$	$0.0164 \pm 0.0011$ $0.1340 \pm 0.0034$	$0.0464 \pm 0.0000$ $0.1500 \pm 0.0000$	$0.0187 \pm 0.0050 \\ 0.1391 \pm 0.0003$
PBMI↑ XBI↓	$0.5566 \pm 0.0672$ $0.0105 \pm 0.0034$	$0.6295 \pm 0.0808$ $0.0097 \pm 0.0036$	$\frac{0.7082 \pm 0.0197}{0.0118 \pm 0.0036}$	$0.6900 \pm 0.0008$ $0.0094 \pm 0.0000$	$0.3830 \pm 0.0112$ $0.0119 \pm 0.0012$	$0.7264 \pm 0.0000$ $0.0022 \pm 0.0000$	$0.6281 \pm 0.0032$ $0.0123 \pm 0.0045$
DBI↓	$1.2223 \pm 0.0549$	$1.1994 \pm 0.0333$	$1.1962 \pm 0.0109$	$1.1921 \pm 0.0021$	$1.4880 \pm 0.0449$	$1.2158 \pm 0.0000$	$1.1751 \pm 0.0016$
LSSRI↑ TWI↓	$1.9518 \pm 0.0709$ $1.4901 \pm 0.0960$	$1.9846 \pm 0.0417$ $1.4463 \pm 0.0553$	$\frac{2.0041 \pm 0.0003}{1.4208 \pm 0.0004}$	$1.9921 \pm 0.0003$ $1.4360 \pm 0.0004$	$\begin{array}{c} 1.6207 \pm 0.0742 \\ 1.9782 \pm 0.1374 \end{array}$	$1.8827 \pm 0.0000$ $1.5801 \pm 0.0000$	$2.0082 \pm 0.0000$ $1.4158 \pm 0.0000$
ACC↑	$0.5837 \pm 0.0605$	$0.5955 \pm 0.0470$	$0.6072 \pm 0.0145$	$0.5610 \pm 0.0005$	$0.6464 \pm 0.0093$	$0.6258 \pm 0.0000$	$0.5706 \pm 0.0010$
NMI↑ ARI↑	$\begin{array}{c} 0.6298 \pm 0.0216 \\ 0.4653 \pm 0.0467 \end{array}$	$\begin{array}{c} 0.6342 \pm 0.0157 \\ 0.4754 \pm 0.0357 \end{array}$	$\begin{array}{c} 0.6294 \pm 0.0006 \\ 0.4777 \pm 0.0049 \end{array}$	$\begin{array}{c} 0.6057 \pm 0.0011 \\ 0.4459 \pm 0.0011 \end{array}$	$\begin{array}{c} \textbf{0.7588}  \pm  \textbf{0.0102} \\ \textbf{0.5215}  \pm  \textbf{0.0200} \end{array}$	$\frac{0.6666 \pm 0.0000}{0.4884 \pm 0.0000}$	$\begin{array}{c} 0.6313 \pm 0.0006 \\ 0.4593 \pm 0.0016 \end{array}$
Texture	FCM	MEC	FSC	2PFCM	BFC	KFCM	CAFCM
WGSS↓	$16.0626 \pm 0.1793$	$51.2179 \pm 2.9583$	$33.7848 \pm 3.5161$	$16.0031 \pm 0.0000$	×	$43.7941 \pm 1.8668$	$15.5734 \pm 0.0000$
MRI↓ GPI↓	$\begin{array}{c} 0.3346 \pm 0.0016 \\ 0.0084 \pm 0.0002 \\ 0.0011 \pm 0.0025 \end{array}$	$0.5275 \pm 0.0003$ $0.0781 \pm 0.0002$	$0.8380 \pm 0.0074$ $0.0940 \pm 0.0048$	$0.3341 \pm 0.0000$ $0.0083 \pm 0.0000$	×	$0.5434 \pm 0.0032$ $0.0892 \pm 0.0019$	$0.3330 \pm 0.0000 \ 0.0079 \pm 0.0000$
BHGI↑ CI↓	$0.9011 \pm 0.0025$ $0.0369 \pm 0.0008$	$0.6874 \pm 0.0009$ $0.1366 \pm 0.0002$	$0.1706 \pm 0.0110$ $0.3168 \pm 0.0044$	$0.9019 \pm 0.0000$ $0.0367 \pm 0.0000$	×	$0.6376 \pm 0.0096$ $0.1483 \pm 0.0026$	$\begin{array}{c} 0.9199  \pm  0.0000 \\ 0.0300  \pm  0.0000 \end{array}$
TI↑	$0.3712 \pm 0.0004$	$0.4860 \pm 0.0006$	$0.0812 \pm 0.0058$	$0.3714 \pm 0.0000$ $0.1263 \pm 0.0000$	×	$0.4474 \pm 0.0097$	$0.4093 \pm 0.0000$
DGI↑ RLI↑	$\begin{array}{c} 0.1211 \pm 0.0157 \\ 0.2775 \pm 0.0007 \end{array}$	$0.0950 \pm 0.0019$ $0.3644 \pm 0.0394$	$\begin{array}{c} 0.0595 \pm 0.0087 \\ 0.1894 \pm 0.0040 \end{array}$	$0.2778 \pm 0.0000$	×	$\begin{array}{c} 0.0953 \pm 0.0077 \\ 0.2238 \pm 0.0036 \end{array}$	$0.0890 \pm 0.0000$ $0.2793 \pm 0.0000$
CHI↑ RTI↓	$7.1204 \pm 0.1057$ $1.0617 \pm 0.0051$	$4.4463 \pm 1.2798$ $4.5746 \pm 6.3519$	$0.4649 \pm 0.0430$ $42.4433 \pm 16.7327$	$7.1556 \pm 0.0000$ $1.0594 \pm 0.0000$	×	$1.4389 \pm 0.0820$ $60.9281 \pm 28.9960$	$7.4499 \pm 0.0000 \\ 0.6144 \pm 0.0000$
WGİ↑	$0.3839 \pm 0.0044$	$0.1331 \pm 0.0639$	$0.0197 \pm 0.0169$	$0.3853 \pm 0.0000$ $0.0170 \pm 0.0000$	×	$0.0562 \pm 0.0186$	$0.4123 \pm 0.0000 \ 0.0156 \pm 0.0000$
DI↑ BHI↑	$0.0165 \pm 0.0018$ $0.1299 \pm 0.0011$	$0.0108 \pm 0.0000$ $0.2549 \pm 0.0609$	$0.0104 \pm 0.0016$ $0.5555 \pm 0.0426$	$0.0170 \pm 0.0000$ $0.1295 \pm 0.0000$	×	$0.0109 \pm 0.0009$ $0.1620 \pm 0.0066$	$0.0136 \pm 0.0000$ $0.1391 \pm 0.0000$
PBMI↑ XBI↓	$0.4994 \pm 0.0208$ $0.0101 \pm 0.0045$	$0.3232 \pm 0.1332$ $0.0457 \pm 0.0000$	$0.1040 \pm 0.0082$ $0.1044 \pm 0.0469$	$0.4924 \pm 0.0000$ $0.0086 \pm 0.0000$	×	$0.0476 \pm 0.0038$ $0.0433 \pm 0.0065$	$0.6284 \pm 0.0000$ $0.0151 \pm 0.0000$
DBI↓	$1.3566 \pm 0.0035$	$1.2662 \pm 0.4884$	$6.2638 \pm 0.9078$	$\overline{1.3552 \pm 0.0000}$	×	$4.6500 \pm 0.7287$	$1.1756 \pm 0.0000$
LSSRI↑ TWI↓	$ \begin{array}{c} 1.9628 \pm 0.0151 \\ 1.4735 \pm 0.0199 \end{array} $	$\begin{array}{c} 0.1953 \pm 0.0020 \\ 5.3993 \pm 0.0058 \end{array}$	$-0.7804 \pm 0.0872$ $8.2005 \pm 0.2295$	$\begin{array}{c} 1.9679 \pm 0.0000 \\ 1.4668 \pm 0.0000 \end{array}$	×	$\begin{array}{c} 0.3540 \pm 0.0498 \\ 4.9345 \pm 0.1425 \end{array}$	$2.0082 \pm 0.0000 \\ 1.4158 \pm 0.0000$
	$0.6330 \pm 0.0114$	$0.1824 \pm 0.0003$	$0.1860 \pm 0.0206$	$0.6367 \pm 0.0000$	×	$0.2036 \pm 0.0170$	$0.5709 \pm 0.0000$
ACC↑							
ACC↑ NMI↑ ARI↑	$\begin{array}{c} 0.0350 \pm 0.0114 \\ 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \end{array}$	$0.3779 \pm 0.0006$ $0.1315 \pm 0.0002$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \end{array}$	$\begin{array}{c} 0.0307 \pm 0.0000 \\ \hline 0.6269 \pm 0.0000 \\ 0.5050 \pm 0.0000 \\ \hline \end{array}$	×	$\begin{array}{c} 0.2636 \pm 0.0170 \\ 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \end{array}$	$0.6313 \pm 0.0000$ $0.4596 \pm 0.0000$
NMI↑ ARI↑ <b>Optdigits</b>	0.6254 ± 0.0046 0.5018 ± 0.0102	$0.3779 \pm 0.0006$ $0.1315 \pm 0.0002$ KM++	0.1238 ± 0.0232 0.0376 ± 0.0073	$\frac{0.6269 \pm 0.0000}{0.5050 \pm 0.0000}$ EWPKM	× × SC	$0.3642 \pm 0.0142$ $0.1465 \pm 0.0120$ HC	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0
NMI↑ ARI↑ <b>Optdigits</b> WGSS↓		$0.3779 \pm 0.0006$ $0.1315 \pm 0.0002$ KM++ $238.6506 \pm 4.5788$	$0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073$ PKM $235.2651 \pm 0.7834$	$ \frac{0.6269 \pm 0.0000}{0.5050 \pm 0.0000} $ EWPKM $ 344.0539 \pm 5.0062 $	× × SC 241.4227 ± 0.0360	$0.3642 \pm 0.0142$ $0.1465 \pm 0.0120$ HC $237.9126 \pm 0.0000$	$\begin{array}{c} 0.6313 \pm 0.0000 \\ 0.4596 \pm 0.0000 \\ \hline \text{CAPKM++2.0} \\ 234.8252 \pm 0.0000 \\ \end{array}$
NMI↑ ARI↑ Optdigits WGSS↓ MRI↓ GPI↓	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ \hline 0.0189 \pm 0.0025 \\ \end{array}$	$0.3779 \pm 0.0006$ $0.1315 \pm 0.0002$ KM++ $238.6506 \pm 4.5788$ $0.7199 \pm 0.0093$ $0.0190 \pm 0.0026$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ \hline 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ \hline \end{array}$	$\begin{array}{c} 0.6269 \pm 0.0000 \\ 0.5050 \pm 0.0000 \\ \hline \text{EWPKM} \\ 344.0539 \pm 5.0062 \\ 0.9429 \pm 0.0013 \\ 0.1919 \pm 0.0047 \\ \end{array}$	$\times$ $\times$ SC $241.4227 \pm 0.0360$ $0.7281 \pm 0.0015$ $0.0231 \pm 0.0005$	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline HC \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000
NMI↑ ARI↑ Optdigits WGSS↓ MRI↓ GPI↓ BHGI↑	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ \hline 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ \hline \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \text{KM++} \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ \hline 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ \hline 0.8237 \pm 0.0063 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057	× × SC 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \\ HC \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.7862 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.8307 ± 0.0000
NMI↑ ARI↑ Optdigits WGSS↓ MRI↓ GPI↓ BHGI↑ CI↓ TI↑	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ \hline 0.7191 \pm 0.0094 \\ \hline 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \text{KM++} \\ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ \hline \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ \hline 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ \hline 0.3606 \pm 0.0087 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032	$\times$ $\times$ $\times$ SC  241.4227 $\pm$ 0.0360  0.7281 $\pm$ 0.0015  0.0231 $\pm$ 0.0005  0.7793 $\pm$ 0.0034  0.1251 $\pm$ 0.0014  0.3568 $\pm$ 0.0004	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ \hline 237.9126 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.3552 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 1 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.0307 ± 0.0000 0.1059 ± 0.0000 0.3701 ± 0.0000
NMI↑ ARI↑ Optdigits WGSS↓ MRI↓ GPI↓ BHGI↑ CI↓	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \text{KM++} \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ \hline \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ \hline 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ 0.1115 \pm 0.0045 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044	× × SC 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ 237.9126 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.7862 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.8307 ± 0.0000 0.1059 ± 0.0000
NMI↑ ARI↑  Optdigits  WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ \hline 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ \hline \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ \hline 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ \hline 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0060 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022	× × SC 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 <b>0.6619</b> ± <b>0.0100</b> 0.1785 ± 0.0001 0.7446 ± 0.0021	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ \hline \\ 237.9126 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.7862 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.1791 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 1 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.1059 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.8330 ± 0.0000
NMI↑ ARI↑  Optdigits  WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \text{KM++} \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0229 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0066 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020	X X SC 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0003 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ 237.9126 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1791 \pm 0.0000 \\ 0.7663 \pm 0.0000 \\ 1.0956 \pm 0.0000 \\ 1.0956 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.8333 ± 0.0000 1.1413 ± 0.0000 1.2904 ± 0.0000
NMI↑ ARI↑  Optdigits  WGSS↓  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ KTI↓ DI↑	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ \hline \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ \hline 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0060 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ 0.2826 \pm 0.00139 \\ \hline \end{array}$	$\begin{array}{c} 0.6269 \pm 0.0000 \\ 0.5050 \pm 0.0000 \\ \hline \\ EWPKM \\ 344.0539 \pm 5.0062 \\ 0.9429 \pm 0.0013 \\ 0.1919 \pm 0.0047 \\ 0.2000 \pm 0.0057 \\ 0.3780 \pm 0.0044 \\ 0.1385 \pm 0.0032 \\ 0.3499 \pm 0.0462 \\ 0.1278 \pm 0.0011 \\ 0.0885 \pm 0.0022 \\ 17.4298 \pm 2.3087 \\ 0.0089 \pm 0.0020 \\ 0.1053 \pm 0.0137 \\ \end{array}$	× ×  SC  241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.1785 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021	$\begin{array}{l} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.3552 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.07653 \pm 0.0000 \\ 0.02671 \pm 0.0000 \\ 0.02671 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 1 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.8330 ± 0.0000 1.1413 ± 0.0004 0.2904 ± 0.0000 0.1139 ± 0.0000
NMI↑ ARI↑  Optdigits  WGSS↓  MRI↓ GPI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ WGI↑ DI↑ BHI↑ PBMI↑	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 2.5823 \pm 0.0427 \\ 0.1568 \pm 0.0067 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \text{KM++} \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0449 \\ 0.1561 \pm 0.0073 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0060 \\ 1.5200 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0083 \\ \hline 0.1547 \pm 0.0033 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0047	X X SC 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ \hline 237.9126 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1591 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.7663 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.1596 \pm 0.0000 \\ 0.1596 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.8330 ± 0.0000 1.1413 ± 0.0000 1.1413 ± 0.0000 0.1139 ± 0.0000 0.1394 ± 0.0000 0.1139 ± 0.0000 0.1139 ± 0.0000 0.1139 ± 0.0000 0.1139 ± 0.0000
NMI↑ ARI↑ Optdigits WGSS↓ MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RII↓ WGI↑ DI↑ BHI↑ PBMI↑ XBI↓ DBI↓	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0027 \\ 0.1568 \pm 0.0027 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 0.1561 \pm 0.0149 \\ 0.01561 \pm 0.0003 \\ 0.0013 \pm 0.0003 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ \hline \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ \hline 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ \hline 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0040 \\ \hline 0.8296 \pm 0.0060 \\ \hline 0.8226 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ \hline 2.5910 \pm 0.0087 \\ \hline 0.1547 \pm 0.0033 \\ \hline 0.0014 \pm 0.0003 \\ \hline 0.0014 \pm 0.0003 \\ \hline 0.1547 \pm 0.0033 \\ \hline 0.0014 \pm 0.0003 \\ \hline 0.19102 \pm 0.0474 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0047 0.0030 ± 0.0007 0.0030 ± 0.0007	× × ×  241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.1785 ± 0.0001 0.1785 ± 0.0001 0.1785 ± 0.0001 0.1746 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.00005 1.8383 ± 0.0047	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ 237.9126 \pm 0.0000 \\ 0.0253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.00008 \pm 0.0000 \\ 0.0008 \pm$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 234.8252 ± 0.0000 0.7111 ± 0.0000 0.168 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.1830 ± 0.0000 1.1413 ± 0.0004 0.2904 ± 0.0000 0.1139 ± 0.0000 1.1435 ± 0.0001 0.1545 ± 0.0001
NMI† ARI† Optdigits WGSS\$\geq\$ MRI\$\precept{GPI}\$, BHG1\$\precept{GPI}\$, DG1\$\precept{RII}\$, RLI\$\precept{RII}\$, WG1\$\precept{DI}\$, BHI1\$\precept{PBMI}\$, XBI\$\precept{NBII}\$	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 2.5823 \pm 0.0427 \\ 0.0014 \pm 0.0007 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0149 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0060 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0050 \\ 1.3311 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0047 0.0030 ± 0.00047	X X 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.3552 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.1791 \pm 0.0000 \\ 0.07653 \pm 0.0000 \\ 0.0635 \pm 0.0000 \\ 0.0637 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.1596 \pm 0.0000 \\ 0.1596 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.3037 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.1821 ± 0.0000 0.1134 ± 0.0000 0.1134 ± 0.0000 0.11413 ± 0.0000 0.1545 ± 0.0000 0.11595 ± 0.0000 0.11595 ± 0.0000 0.11595 ± 0.0000
NMI† ARI1  Optdigits  WGSS\$\J  MRI\$\J  GPI\$\L  BHG11^ CI\$\J  TI1^ DG11^ RTI\$\J  WG11^ BHI1^ PBHI1^ PBHI1^ PBHI1^ DBI\$\L  LSSRI1^ TWI\$\J  ACC^	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1568 \pm 0.0121 \\ 0.1568 \pm 0.0021 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ -0.2128 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ \hline \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0149 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ \hline \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ \hline 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0060 \\ \hline 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ \hline 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ \hline 1.9102 \pm 0.0474 \\ -0.1869 \pm 0.00783 \\ \hline 0.7950 \pm 0.0256 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0047 0.0300 ± 0.0007 4.9440 ± 0.2232 -2.4247 ± 0.0255 39.5425 ± 0.0817 0.1741 ± 0.0039	× ×  241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0000 1.8383 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8265 ± 0.0003	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.3552 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.1791 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.0653 \pm 0.0000 \\ 0.02671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.1695 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.2675 \pm 0.0000 \\ 0.243835 \pm 0.0000 \\ 0.243835 \pm 0.0000 \\ 0.8089 \pm 0.0000 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 234.8252 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.1821 ± 0.0000 1.1413 ± 0.0004 0.2904 ± 0.0000 1.1413 ± 0.0004 0.2904 ± 0.0000 1.1595 ± 0.0000 1.1595 ± 0.0000 1.1595 ± 0.0000 1.1595 ± 0.0000 1.1595 ± 0.0000 1.1595 ± 0.0000 1.8543 ± 0.0001 0.1527 ± 0.0000 2.34825 ± 0.0000 2.34825 ± 0.0000
NMI  ARI  Optdigits  WGSS  MRI  GPI  TI  TI  TI  TI  TI  TI  TI  TI  TI	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 2.5823 \pm 0.0427 \\ 0.1568 \pm 0.0067 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ 0.2128 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.7342 \pm 0.0272 \\ 0.6355 \pm 0.0602 \\ \hline \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0229 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0449 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0006 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ 1.9102 \pm 0.0474 \\ 0.1869 \pm 0.0073 \\ 23.5267 \pm 0.0783 \\ 0.7950 \pm 0.0256 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.7486 \pm 0.0011 \\ 0.6722 \pm 0.0250 \\ \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0046 0.1059 ± 0.0047 0.0030 ± 0.0057 0.0150 ± 0.0817 0.1741 ± 0.0039 0.1355 ± 0.0007 0.1355 ± 0.0007 0.0150 ± 0.0013	X X X SC 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0003 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0000 1.3838 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8265 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ \hline 237.9126 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1595 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.7663 \pm 0.0000 \\ 0.7663 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.1596 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.2675 \pm 0.0000 \\ 24.3835 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.7170 \pm 0.0000 \\ \hline \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.7561 ± 0.0000 0.7111 ± 0.0000 0.168 ± 0.0000 0.8307 ± 0.0000 0.1695 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.8330 ± 0.0000 1.1413 ± 0.0000 0.1394 ± 0.0000 0.1545 ± 0.0001 0.1545 ± 0.0001 0.0019 ± 0.0000 1.8543 ± 0.0000 0.1827 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0002 0.7563 ± 0.0002 0.6704 ± 0.0002
NMI ARI Optdigits WGSS MRI GPI DI OF OF OF OF OF OF OF OF OF OF OF OF OF	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 2.5823 \pm 0.0427 \\ 0.1568 \pm 0.0067 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ 0.2128 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.7342 \pm 0.0272 \\ 0.6355 \pm 0.0602 \\ \hline \text{FCM} \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \text{KM}++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0229 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0449 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \text{MEC} \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0006 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ 1.9102 \pm 0.0474 \\ 0.1869 \pm 0.0073 \\ 23.5267 \pm 0.0783 \\ 0.7950 \pm 0.0256 \\ 0.7486 \pm 0.0111 \\ 0.6722 \pm 0.0250 \\ \hline \textbf{FSC} \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0047 0.0030 ± 0.0007 4.9440 ± 0.2232 -2.4247 ± 0.0255 39.5425 ± 0.0817 0.1741 ± 0.0039 0.1355 ± 0.0007 0.0150 ± 0.0013 2PFCM	X X X SC 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0003 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0000 1.3838 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8265 ± 0.0030 0.8708 ± 0.0003 BFC	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ \hline 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1595 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.1691 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.2675 \pm 0.0000 \\ 24.3835 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.7170 \pm 0.0000 \\ \hline \\ \text{KFCM} \\ \hline \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.7501 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.4134 ± 0.0000 0.8330 ± 0.0000 1.1413 ± 0.0004 0.2904 ± 0.0000 0.1545 ± 0.0001 0.1545 ± 0.0001 0.0019 ± 0.0000 1.8543 ± 0.0001 0.0019 ± 0.0000 2.34825 ± 0.0001 0.7563 ± 0.0002 0.7563 ± 0.0002 0.7563 ± 0.0002 0.6704 ± 0.0002 0.6704 ± 0.0002
NMI ARI Optdigits WGSS MRI GPI DI TI	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 2.5823 \pm 0.0427 \\ 0.1568 \pm 0.0067 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ 0.2128 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.7342 \pm 0.0272 \\ 0.6355 \pm 0.0602 \\ \hline \text{FCM} \\ 301.2430 \pm 10.6738 \\ \hline \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0229 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0449 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ 0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \\ MEC \\ 289.1568 \pm 9.2649 \\ \hline \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.00060 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ 1.9102 \pm 0.0474 \\ 0.1869 \pm 0.0073 \\ 23.5267 \pm 0.0783 \\ 0.7950 \pm 0.0256 \\ 0.7486 \pm 0.0111 \\ 0.6722 \pm 0.0250 \\ \hline \textbf{FSC} \\ \hline 387.2978 \pm 11.7520 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0047 0.0030 ± 0.0007 4.9440 ± 0.2232 -2.4247 ± 0.0255 39.5425 ± 0.0017 0.1741 ± 0.0039 0.1355 ± 0.0007 0.0150 ± 0.0013 2PFCM	X X X SC 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0003 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0000 1.8383 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1614 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.7663 \pm 0.0000 \\ 0.7673 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.1596 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.02675 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.7170 \pm 0.0000 \\ \hline {KFCM} \\ 287.3822 \pm 9.4675 \\ \hline \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.7501 ± 0.0000 0.7111 ± 0.0000 0.1068 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.1330 ± 0.0000 1.1413 ± 0.0000 1.1413 ± 0.0000 1.1413 ± 0.0000 0.1545 ± 0.0001 0.0019 ± 0.0000 1.8543 ± 0.0001 0.0019 ± 0.0000 0.3701 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0002 0.7563 ± 0.0000 0.7563 ± 0.0002 0.7563 ± 0.0002
NMI† ARI†  Optdigits  WGSS  MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ WGI↑ DI↑ DBI↓ LSSRI↑ TWI↓ ARI↑ Optdigits  WGSS  MRI↓ GPI↓ MRI↓ GPI↓ MRI↓ GPI↓ MRI↓ GPI↓	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.1809 \pm 0.00387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0027 \\ 0.0121 \pm 0.0356 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0027 \\ 0.01218 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.7342 \pm 0.0272 \\ 0.6355 \pm 0.0602 \\ \hline \text{FCM} \\ \hline 301.2430 \pm 10.6738 \\ 0.8541 \pm 0.0154 \\ 0.0935 \pm 0.0161 \\ \hline \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \\ MEC \\ 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ \hline 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ \hline 0.3606 \pm 0.0087 \\ \hline 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0047 \\ \hline 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0065 \\ \hline 0.1331 \pm 0.0139 \\ \hline 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ \hline 0.2826 \pm 0.0057 \\ \hline 0.1820 \pm 0.0041 \\ \hline 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ \hline 0.2876 \pm 0.0087 \\ \hline 0.1547 \pm 0.0033 \\ \hline 0.0014 \pm 0.0003 \\ \hline 1.9102 \pm 0.0474 \\ \hline -0.1869 \pm 0.0073 \\ \hline 23.5267 \pm 0.0783 \\ \hline 0.7950 \pm 0.0256 \\ \hline 0.7486 \pm 0.0111 \\ \hline 0.6722 \pm 0.0250 \\ \hline FSC \\ \hline 387.2978 \pm 11.7520 \\ \hline 0.9156 \pm 0.0119 \\ \hline 0.0576 \pm 0.0337 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0047 0.030 ± 0.0007 0.94940 ± 0.2232 -2.4247 ± 0.0255 39.5425 ± 0.0817 0.1741 ± 0.0039 0.1355 ± 0.0007 0.0150 ± 0.0013 2PFCM 306.0312 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000	× × ×  SC  241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.1785 ± 0.0001 0.1785 ± 0.0001 0.1785 ± 0.0001 0.1746 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0000 1.8383 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8265 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0006 0.7799 ± 0.0003 BFC  365.3603 ± 7.7366 0.9824 ± 0.0049	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1791 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.6174 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2675 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.2675 \pm 0.0000 \\ 0.3835 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.7170 \pm 0.0000 \\ \hline \\ KFCM \\ 287.3822 \pm 9.4675 \\ 0.8318 \pm 0.0184 \\ 0.0683 \pm 0.0124 \\ \end{array}$	0.6313 ± 0.0000 0.4596 ± 0.0000 CAPKM++2.0 234.8252 ± 0.0000 0.7111 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.1059 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.1330 ± 0.0000 1.1413 ± 0.0004 0.2904 ± 0.0000 1.1413 ± 0.0001 0.1545 ± 0.0001 0.019 ± 0.0000 2.5848 ± 0.0001 0.1545 ± 0.0001 0.019 ± 0.0000 2.34825 ± 0.0000 0.7914 ± 0.0000 0.7563 ± 0.0002 0.6704 ± 0.0002 0.6704 ± 0.0002 CAFCM 234.8252 ± 0.0000 0.7111 ± 0.0000 0.7111 ± 0.0000 0.0168 ± 0.0000
NMIT ARIT Optdigits WGSSJ MRIJ GPI BHGIT TIT TIT DGIT RIJ WGIT BHIT PBMIT XBIJ DBIJ LSRIT TWIJ ACCT NMIT ARIT WGIT DTWIJ ARIT WGIT DTWIJ ARIT WGIT DFI MRIJ ARIT WGSSJ MRIJ	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0229 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0449 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ 0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7337 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \\ MEC \\ 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.0734 \pm 0.0161 \\ 0.05364 \pm 0.0474 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0060 \\ 1.5200 \pm 0.0055 \\ 0.1331 \pm 0.0139 \\ 0.2826 \pm 0.0055 \\ 0.1331 \pm 0.0139 \\ 0.5910 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ 1.9102 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ 0.7560 \pm 0.0087 \\ 0.1547 \pm 0.0083 \\ 0.0014 \pm 0.0003 \\ 0.1547 \pm 0.0083 \\ 0.0014 \pm 0.0003 \\ 0.1547 \pm 0.0083 \\ 0.0014 \pm 0.0003 \\ 0.1547 \pm 0.0083 \\ 0.0014 \pm 0.0003 \\ 0.1547 \pm 0.0083 \\ 0.0014 \pm 0.0093 \\ 0.1547 \pm 0.0083 \\ 0.1547 \pm 0.0083 \\ 0.0014 \pm 0.0093 \\ 0.1547 \pm 0.0083 \\ 0.154$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0085 ± 0.0022 17.4298 ± 0.0013 3.5609 ± 0.0368 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1053 ± 0.0037 4.9440 ± 0.2232 -2.4247 ± 0.0232 0.1741 ± 0.0039 0.1355 ± 0.0007 0.0150 ± 0.0013 2PFCM 306.0312 ± 0.0000 0.8408 ± 0.0000	× × × × × × × × × × × × × × × × × × ×	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ \hline 237.9126 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.03552 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1591 \pm 0.0000 \\ 0.1791 \pm 0.0000 \\ 0.1614 \pm 0.0000 \\ 0.1614 \pm 0.0000 \\ 0.1614 \pm 0.0000 \\ 0.1614 \pm 0.0000 \\ 0.1614 \pm 0.0000 \\ 0.1614 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.1692 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8251 \pm 0.0000 \\ 0.9251 \pm $	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.14596 ± 0.0000 0.1111 ± 0.0000 0.0168 ± 0.0000 0.8307 ± 0.0000 0.1059 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.8330 ± 0.0000 1.1413 ± 0.0000 1.1413 ± 0.0000 0.1545 ± 0.0001 0.01545 ± 0.0001 0.01545 ± 0.0001 0.01545 ± 0.0000 0.1827 ± 0.0000 0.7563 ± 0.0002 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.8307 ± 0.0000 0.8307 ± 0.0000
NMIT ARIT Optdigits WGSSJ MRIJ GPIJ BHGIT CIJ TIT DGIT RIIT NGIT NGIT NGIT NGIT NGIT NGIT NGIT N	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.1809 \pm 0.00387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0027 \\ 0.01218 \pm 0.0356 \\ 2.38020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.07342 \pm 0.0272 \\ 0.6355 \pm 0.0602 \\ \hline{\text{FCM}} \\ 301.2430 \pm 10.6738 \\ 0.8541 \pm 0.0154 \\ 0.0935 \pm 0.0161 \\ 0.4784 \pm 0.0480 \\ 0.2699 \pm 0.0218 \\ 0.2844 \pm 0.0238 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 0.2166 \pm 0.0151 \\ 0.1405 \pm 0.0138 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0138 \\ 0.0151 \pm 0.0138 \\ 0.2187 \pm 0.0433 \\ 2.38651 \pm 0.0459 \\ 0.1561 \pm 0.0073 \\ 0.013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ 0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \\ MEC \\ 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.0734 \pm 0.0161 \\ 0.0734 \pm 0.0161 \\ 0.5364 \pm 0.0474 \\ 0.2515 \pm 0.0188 \\ 0.2984 \pm 0.0179 \\ 0.2187 \pm 0.0188 \\ 0.2984 \pm 0.0179 \\ 0.2187 \pm 0.0188 \\ 0.2294 \pm 0.0179 \\ 0.2187 \pm 0.0188 \\ 0.2294 \pm 0.0179 \\ 0.2187 \pm 0.0188 \\ 0.2294 \pm 0.0179 \\ 0.2281 \pm 0.0188 \\ 0.2298 \pm 0.0188 \\ 0.2984 \pm 0.0179 \\ 0.2281 \pm 0.0188 \\ 0.2284 \pm 0.0188 \\ 0.2281 \pm 0.0189 \\ 0.2281 \pm 0.0188 \\ 0.2281 \pm 0.0189 \\ 0.2281 \pm 0.0179 \\ 0.0181 \pm 0.0181$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ \hline 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ \hline 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ \hline 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0060 \\ \hline 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ \hline 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ \hline 0.1547 \pm 0.0033 \\ \hline 0.0014 \pm 0.0003 \\ \hline 0.0073 \\ \hline 2.5910 \pm 0.0057 \\ \hline 0.1547 \pm 0.0033 \\ \hline 0.0014 \pm 0.00073 \\ \hline 23.5267 \pm 0.0783 \\ \hline 0.7950 \pm 0.0256 \\ \hline 0.7486 \pm 0.0111 \\ \hline 0.6722 \pm 0.0250 \\ \hline \textbf{FSC} \\ \hline 387.2978 \pm 11.7520 \\ \hline 0.9156 \pm 0.0119 \\ \hline 0.0576 \pm 0.0139 \\ \hline 0.0576 \pm 0.0331 \\ \hline 0.0318 \pm 0.0492 \\ \hline 0.03031 \pm 0.0220 \\ \hline 0.3031 \pm 0.0220 \\ \hline 0.3031 \pm 0.0220 \\ \hline 0.3031 \pm 0.0220 \\ \hline 0.1252 \pm 0.0392 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.1278 ± 0.0011 0.0885 ± 0.0022 0.1278 ± 0.0011 0.0885 ± 0.0022 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0047 0.0030 ± 0.0007 0.0150 ± 0.0013 2.24247 ± 0.0255 39.5425 ± 0.0817 0.1741 ± 0.0039 0.1355 ± 0.0007 0.0150 ± 0.0013 2.24247 ± 0.0256 0.153 ± 0.0007 0.150 ± 0.0013 0.159 ± 0.0000 0.1355 ± 0.0000 0.1355 ± 0.0000 0.1355 ± 0.0000 0.1364 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000 0.0846 ± 0.0000 0.02439 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000	× × ×  SC  241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0005 0.0007 ± 0.0000 0.8265 ± 0.0029 24.6730 ± 0.0030 0.8708 ± 0.0030 0.8708 ± 0.0006 0.7799 ± 0.0003 BFC  365.3603 ± 7.7366 0.9824 ± 0.0049 0.0886 ± 0.0019 0.0517 ± 0.0137 0.5344 ± 0.0076	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ 237.9126 \pm 0.0000 \\ 0.0253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.13552 \pm 0.0000 \\ 0.1791 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.26413 \pm 0.0000 \\ 0.1596 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.2675 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.7170 \pm 0.0000 \\ \hline \\ KFCM \\ 287.3822 \pm 9.4675 \\ 0.8318 \pm 0.0184 \\ 0.0683 \pm 0.0124 \\ 0.5403 \pm 0.0571 \\ 0.2534 \pm 0.0279 \\ 0.2534 \pm 0.0279 \\ 0.2929 \pm 0.0274 \\ 0.2929 \pm 0.0274 \\ 0.2929 \pm 0.0274 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.00000 \\ 0.000000 \\ 0.00000000$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.1111 ± 0.0000 0.168 ± 0.0000 0.168 ± 0.0000 0.3701 ± 0.0000 0.13701 ± 0.0000 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.0019 ± 0.0000 0.3701 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0002 0.7604 ± 0.0002 0.7604 ± 0.0002 0.7701 ± 0.0000 0.7111 ± 0.0000 0.3307 ± 0.0000 0.3307 ± 0.0000 0.3701 ± 0.0000 0.3701 ± 0.0000 0.3701 ± 0.0000
NMIT	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1568 \pm 0.0067 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ -0.2128 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.7342 \pm 0.0272 \\ 0.6355 \pm 0.0602 \\ \hline{\text{FCM}} \\ 301.2430 \pm 10.6738 \\ 0.8541 \pm 0.0154 \\ 0.02699 \pm 0.0217 \\ 0.2844 \pm 0.0480 \\ 0.2699 \pm 0.0217 \\ 0.2844 \pm 0.0238 \\ 0.3498 \pm 0.0508 \\ 0.1429 \pm 0.0101 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0224 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0149 \\ 2.5976 \pm 0.0449 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline {MEC} \\ 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.5364 \pm 0.0474 \\ 0.2515 \pm 0.0188 \\ 0.2984 \pm 0.0179 \\ 0.3593 \pm 0.0487 \\ 0.1443 \pm 0.00487 \\ 0.1434 \pm 0.00487 \\ 0.1434 \pm 0.00487 \\ 0.1434 \pm 0.00487 \\ 0.1434 \pm 0.00487 \\ 0.1434 \pm 0.00487 \\ 0.1434 \pm 0.00487 \\ 0.1434 \pm 0.00487 \\ 0.1434 \pm 0.00487 \\ 0.04487 \\ 0.04$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0060 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ 1.9102 \pm 0.0474 \\ -0.1869 \pm 0.0073 \\ 23.5267 \pm 0.0783 \\ 0.7950 \pm 0.0256 \\ 0.7486 \pm 0.0111 \\ 0.6722 \pm 0.0250 \\ \hline FSC \\ 387.2978 \pm 11.7520 \\ 0.9156 \pm 0.0119 \\ 0.0376 \pm 0.0337 \\ 0.3218 \pm 0.0492 \\ 0.0331 \pm 0.0220 \\ 0.1252 \pm 0.0392 \\ 0.4267 \pm 0.0985 \\ \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM  344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0085 ± 0.0022 17.4298 ± 0.0368 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1053 ± 0.0007 4.9440 ± 0.2232 -2.4247 ± 0.0255 39.5425 ± 0.0817 0.1741 ± 0.0039 0.1355 ± 0.0013 2PFCM  306.0312 ± 0.0000 0.8408 ± 0.0000 0.8466 ± 0.0000 0.2439 ± 0.0000 0.2439 ± 0.0000 0.2439 ± 0.0000 0.2439 ± 0.0000 0.3305 ± 0.0000 0.1491 ± 0.0000	× × ×  241.4227 ± 0.0360 0.7281 ± 0.0015 0.7281 ± 0.0015 0.7293 ± 0.0034 0.1251 ± 0.0015 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.00005 0.0007 ± 0.0000 1.8383 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8265 ± 0.0003 0.8708 ± 0.0000 0.8265 ± 0.0003 0.8708 ± 0.0006 0.7799 ± 0.0003 BFC  165.3603 ± 7.7366 0.0245 ± 0.0019 0.0517 ± 0.0137 0.5344 ± 0.0076 0.0224 ± 0.0060 0.2348 ± 0.0281	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1247 \pm 0.0$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 234.8252 ± 0.0000 0.7111 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.4134 ± 0.0000 0.1139 ± 0.0000 1.1413 ± 0.0004 0.2904 ± 0.0000 0.1139 ± 0.0000 1.1435 ± 0.0001 0.1139 ± 0.0000 1.159 ± 0.0000 0.0019 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0002 0.6704 ± 0.0001 0.7563 ± 0.0002 0.7111 ± 0.0000 0.7111 ± 0.0000 0.7111 ± 0.0000 0.1059 ± 0.0000 0.1059 ± 0.0000 0.3701 ± 0.0000 0.4135 ± 0.0000 0.1821 ± 0.0000 0.1821 ± 0.0000
NMI  ARI  Optdigits  WGSS  MRI  GPI  BHGI  CI  TI  DGI  RII  NMI  BHI  CHI  ARI  ARI  Optdigits  WGSS  MRI  WGSS  WGSS  MRI  GPI  BHI  ARI  CHI  BHI  CHI  BHI  CHI  CHI  CHI  CH	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.1809 \pm 0.0038 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 0.16654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0122 \\ 0.125823 \pm 0.0427 \\ 0.1568 \pm 0.0067 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ 0.02128 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.07342 \pm 0.0272 \\ 0.6355 \pm 0.0602 \\ \hline{\text{FCM}} \\ 301.2430 \pm 10.6738 \\ 0.8541 \pm 0.0154 \\ 0.0935 \pm 0.0161 \\ 0.4784 \pm 0.0480 \\ 0.2699 \pm 0.0217 \\ 0.2844 \pm 0.0238 \\ 0.3498 \pm 0.0508 \\ 0.1429 \pm 0.0101 \\ 0.4032 \pm 0.0668 \\ \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 0.8042 \pm 0.0336 \\ 0.1405 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 0.1561 \pm 0.0149 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline {MEC} \\ 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.5364 \pm 0.0474 \\ 0.2515 \pm 0.0188 \\ 0.2984 \pm 0.0178 \\ 0.2984 \pm 0.0189 \\ 0.2984 \pm 0.0178 \\ 0.0487 \\ 0.1443 \pm 0.0085 \\ 0.4028 \pm 0.0888 \\ 0.04028 \pm 0.0888 \\ 0.04028 \pm 0.0888 \\ 0.04028 \pm 0.0888 \\ 0.0189 \\ 0.0025 \\ 0.0026 \\ 0.$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline \textbf{PKM} \\ \hline 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ \hline 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ \hline 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ \hline 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0065 \\ \hline 0.1331 \pm 0.0139 \\ \hline 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ \hline 0.2826 \pm 0.0057 \\ \hline 0.1547 \pm 0.0033 \\ \hline 0.0014 \pm 0.0004 \\ \hline 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ \hline 0.1547 \pm 0.0033 \\ \hline 0.0014 \pm 0.00073 \\ \hline 23.5267 \pm 0.0783 \\ \hline 0.7950 \pm 0.0256 \\ \hline 0.9156 \pm 0.0119 \\ \hline 0.0576 \pm 0.0119 \\ \hline 0.0576 \pm 0.0139 \\ \hline 0.0576 \pm 0.0139 \\ \hline 0.3218 \pm 0.0492 \\ \hline 0.3031 \pm 0.0220 \\ \hline 0.01252 \pm 0.0392 \\ \hline 0.4267 \pm 0.0481 \\ \hline 0.1151 \pm 0.0095 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.0076 \pm 0.0150 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00576 \pm 0.0095 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00576 \pm 0.0095 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00576 \pm 0.0095 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.00576 \pm 0.0095 \\ \hline 0.00376 \pm 0.0156 \\ \hline 0.000576 \pm 0.0095 \\ \hline 0.000576 \pm 0.000576 \\ $	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.1278 ± 0.0011 0.0885 ± 0.0022 0.1278 ± 0.0011 0.0885 ± 0.0022 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1059 ± 0.0047 0.0030 ± 0.0007 0.0150 ± 0.0013 0.1741 ± 0.0030 0.1741 ± 0.0030 0.1840 ± 0.0007 0.0150 ± 0.0013 2PFCM 306.0312 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000 0.05264 ± 0.0000 0.2439 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.3146 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000	× × ×  SC  241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.1785 ± 0.0001 0.7446 ± 0.0021 0.7446 ± 0.0021 0.7446 ± 0.0021 0.7446 ± 0.0021 0.3568 ± 0.0004 0.1733 ± 0.0024 0.0005 0.0007 ± 0.0005 0.0007 ± 0.0005 0.0007 ± 0.0000 0.8265 ± 0.0029 24.6730 ± 0.0030 0.8708 ± 0.0030 0.8708 ± 0.0003 BFC  365.3603 ± 7.7366 0.9824 ± 0.0049 0.0886 ± 0.0019 0.0517 ± 0.0137 0.5344 ± 0.0076 0.0224 ± 0.0060 0.0224 ± 0.0060 0.02348 ± 0.0060 0.2348 ± 0.0060 0.2348 ± 0.0060 0.2348 ± 0.0061	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ 237.9126 \pm 0.0000 \\ 0.0253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.13552 \pm 0.0000 \\ 0.1791 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.6114 \pm 0.0000 \\ 0.7653 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.2671 \pm 0.0000 \\ 0.26413 \pm 0.0000 \\ 0.1596 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.2675 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.8250 \pm 0.0000 \\ 0.7170 \pm 0.0000 \\ \hline \\ KFCM \\ 287.3822 \pm 9.4675 \\ 0.8318 \pm 0.0184 \\ 0.0683 \pm 0.0124 \\ 0.5403 \pm 0.0571 \\ 0.2534 \pm 0.0279 \\ 0.2524 \pm 0.0274 \\ 0.3552 \pm 0.0543 \\ 0.1427 \pm 0.0077 \\ 0.4001 \pm 0.0577 \\ 0.2534 \pm 0.0279 \\ 0.02929 \pm 0.0274 \\ 0.3552 \pm 0.0543 \\ 0.1427 \pm 0.0077 \\ 0.4001 \pm 0.0577 \\ 0.4001 \pm 0.0578 \\ 0.4001 \pm 0.057$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.7502 ± 0.0000 0.7111 ± 0.0000 0.168 ± 0.0000 0.3701 ± 0.0000 0.1695 ± 0.0000 0.3701 ± 0.0000 0.1821 ± 0.0000 0.8330 ± 0.0000 1.1413 ± 0.0004 0.2904 ± 0.0000 0.1139 ± 0.0000 1.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.0019 ± 0.0000 23.4825 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0001 0.7563 ± 0.0002 0.7604 ± 0.0002 0.7914 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7563 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7563 ± 0.0000 0.7914 ± 0.0000
NMIT	0.6254 ± 0.0046 0.5018 ± 0.0102   KM   238.0204 ± 3.7684 0.7191 ± 0.0094 0.0189 ± 0.0025 0.8118 ± 0.0201 0.1176 ± 0.0111 0.3632 ± 0.0138 0.4874 ± 0.0387 0.1809 ± 0.0017 0.8088 ± 0.0279 1.6654 ± 0.6256 0.2767 ± 0.0121 0.1368 ± 0.0121 2.5823 ± 0.0427 0.1568 ± 0.0027 0.164 ± 0.0002 1.9179 ± 0.0796 -0.2128 ± 0.0356 23.8020 ± 0.3768 0.7537 ± 0.0641 0.7342 ± 0.0272 0.6355 ± 0.0602   FCM   301.2430 ± 10.6738 0.8541 ± 0.0154 0.0935 ± 0.0161 0.4784 ± 0.0480 0.2699 ± 0.0217 0.2844 ± 0.0238 0.3498 ± 0.0508 0.1429 ± 0.0101 0.4032 ± 0.0668 5.1299 ± 2.4365 0.0760 ± 0.0263	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0224 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0449 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \\ MEC \\ \hline 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.5364 \pm 0.0474 \\ 0.2515 \pm 0.0188 \\ 0.2984 \pm 0.0179 \\ 0.3593 \pm 0.0487 \\ 0.1443 \pm 0.0085 \\ 0.4028 \pm 0.0588 \\ 3.3267 \pm 1.2337 \\ 0.0830 \in 0.0237 \\ 0.0830 \pm 0.0023 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ \hline 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ \hline 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0060 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ \hline 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ \hline 0.1547 \pm 0.0033 \\ \hline 0.0014 \pm 0.0003 \\ 1.9102 \pm 0.0474 \\ -0.1869 \pm 0.0073 \\ \hline 23.5267 \pm 0.0783 \\ \hline 0.7950 \pm 0.0256 \\ \hline 0.7486 \pm 0.0111 \\ 0.6722 \pm 0.0250 \\ \hline FSC \\ \hline 387.2978 \pm 11.7520 \\ \hline 0.9156 \pm 0.0119 \\ 0.0576 \pm 0.0337 \\ 0.3218 \pm 0.0492 \\ 0.0331 \pm 0.0220 \\ 0.1252 \pm 0.0392 \\ 0.4267 \pm 0.0481 \\ 0.01151 \pm 0.0095 \\ 0.0376 \pm 0.0156 \\ 0.0156 \pm 0.0119 \\ 0.0376 \pm 0.0392 \\ 0.4267 \pm 0.0481 \\ 0.0156 \pm 0.0195 \\ 0.0376 \pm 0.0392 \\ 0.4267 \pm 0.0481 \\ 0.0156 \pm 0.0156 \\ 3.1296 \pm 1.1438 \\ 0.0459 \pm 0.0267 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM  344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0037 3.5609 ± 0.0368 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1053 ± 0.0037 4.9440 ± 0.2232 -2.4247 ± 0.0255 39.5425 ± 0.0817 0.1741 ± 0.0039 0.1355 ± 0.0013 2PFCM  306.0312 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000 0.2439 ± 0.0000 0.2439 ± 0.0000 0.2439 ± 0.0000 0.3166 ± 0.0000 0.3166 ± 0.0000 0.3166 ± 0.0000 0.3166 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000	X X X  241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0000 1.8383 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8265 ± 0.0003 0.8708 ± 0.0003	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline \\ HC \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.0008 \pm 0.0$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.7111 ± 0.0000 0.8307 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.4134 ± 0.0000 0.4134 ± 0.0000 0.1139 ± 0.0000 0.11413 ± 0.0000 0.11413 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.11525 ± 0.0000 0.0019 ± 0.0000 0.8543 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.1159 ± 0.0000 0.1159 ± 0.0000 0.1351 ± 0.0000 0.1351 ± 0.0000 0.1351 ± 0.0000 0.1351 ± 0.0000 0.1315 ± 0.0000 0.1315 ± 0.0000 0.1315 ± 0.0000 0.1314 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000
NMIT	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1568 \pm 0.0012 \\ 0.2128 \pm 0.0356 \\ 0.2767 \pm 0.0121 \\ 0.1568 \pm 0.0067 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ -0.2128 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.7342 \pm 0.0272 \\ 0.6355 \pm 0.0602 \\ \hline{\text{FCM}} \\ \hline 301.2430 \pm 10.6738 \\ 0.2699 \pm 0.0217 \\ 0.2844 \pm 0.0238 \\ 0.3498 \pm 0.0508 \\ 0.1429 \pm 0.0101 \\ 0.4032 \pm 0.0668 \\ 0.1429 \pm 0.0101 \\ 0.4032 \pm 0.0668 \\ 0.1429 \pm 0.0101 \\ 0.4032 \pm 0.0668 \\ 0.1429 \pm 0.0101 \\ 0.4032 \pm 0.2668 \\ 0.0760 \pm 0.263 \\ 0.0760 \pm 0.263 \\ 0.0149 \pm 0.2102 \\ 0.0149 \pm 0.0149 \\ 0.0026 \pm 0.0026 \\ 0.00263 \\ 0.0149 \pm 0.0149 \\ 0.0026 \pm 0.0026 \\ 0.00263 \\ 0.0149 \pm 0.0149 \\ 0.0021 \\ 0.0026 \pm 0.0026 \\ 0.00263 \\ 0.0149 \pm 0.0149 \\ 0.0021 \\ 0.0026 \pm 0.0026 \\ 0.00263 \\ 0.0149 \pm 0.0149 \\ 0.0021 \\ 0.0026 \pm 0.0026 \\ 0.00263 \\ 0.0149 \pm 0.0149 \\ 0.0021 \\ 0.0026 \pm 0.0026 \\ 0.00263 \\ 0.0034 \pm 0.0149 \\ 0.0049 \pm 0.0149 \\ 0.0049 \pm 0.0021 \\ 0.0026 \pm 0.0026 \\ 0.0026$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ 0.02187 \pm 0.0439 \\ 0.05361 \pm 0.0459 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0525 \\ 0.6160 \pm 0.0507 \\ \hline MEC \\ 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.05364 \pm 0.0474 \\ 0.2515 \pm 0.0188 \\ 0.2984 \pm 0.0179 \\ 0.3593 \pm 0.0487 \\ 0.1443 \pm 0.0085 \\ 0.4028 \pm 0.0588 \\ 0.4028 \pm 0.0588 \\ 0.4028 \pm 0.0588 \\ 0.4028 \pm 0.0583 \\$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0060 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ 1.9102 \pm 0.0474 \\ -0.1869 \pm 0.00783 \\ 0.7950 \pm 0.0256 \\ 0.7486 \pm 0.0111 \\ 0.6722 \pm 0.0250 \\ \hline FSC \\ 387.2978 \pm 11.7520 \\ 0.9156 \pm 0.0119 \\ 0.0576 \pm 0.0337 \\ 0.3218 \pm 0.0492 \\ 0.3031 \pm 0.0220 \\ 0.1252 \pm 0.0392 \\ 0.1252 \pm 0.0392 \\ 0.1252 \pm 0.0392 \\ 0.1252 \pm 0.0392 \\ 0.015151 \pm 0.0095 \\ 0.0376 \pm 0.0156 \\ 0.0376 \pm 0.0156 \\ 3.1296 \pm 1.1438 \\ 0.0459 \pm 0.0150 \\ 0.0376 \pm 0.0150 \\ 0.0376 \pm 0.0150 \\ 0.0376 \pm 0.0150 \\ 0.0376 \pm 0.0150 \\ 0.0376 \pm 0.150 \\ 0.0376 \pm 0.0150 \\ 0.0376 \pm 0.$	0.6269 ± 0.0000 0.5050 ± 0.0000 0.5050 ± 0.0000 0.5050 ± 0.0000 0.5050 ± 0.0000 0.5050 ± 0.0001 344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0037 3.5609 ± 0.0368 0.1059 ± 0.0047 0.0030 ± 0.0007 4.9440 ± 0.2232 -2.4247 ± 0.0255 39.5425 ± 0.0817 0.1741 ± 0.0039 0.1355 ± 0.0007 0.0150 ± 0.0013 2PFCM 306.0312 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000 0.2439 ± 0.0000 0.3405 ± 0.0000 0.3405 ± 0.0000 0.3405 ± 0.0000 0.3405 ± 0.0000 0.3405 ± 0.0000 0.3405 ± 0.0000 0.3405 ± 0.0000 0.9443 ± 0.0000 0.9443 ± 0.0000 0.9443 ± 0.0000 0.9443 ± 0.0000 0.94927 ± 0.0000 0.94927 ± 0.0000 0.94927 ± 0.0000 0.9898 ± 0.0000 0.9960 ± 0.0000 0.33187 ± 0.0000 0.9600 ± 0.0000 0.33187 ± 0.0000	× × × × × × × × × × × × × × × × × × ×	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.0008 \pm 0.0$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 234.8252 ± 0.0000 0.7111 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.4134 ± 0.0000 0.1821 ± 0.0000 0.1390 ± 0.0000 1.1413 ± 0.0004 0.2904 ± 0.0000 1.1413 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1563 ± 0.0002 0.1827 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0002 0.7914 ± 0.0001 0.7563 ± 0.0002 0.7914 ± 0.0001 0.7914 ± 0.0000 0.7914 ± 0.0000
NMIT	0.6254 ± 0.0046 0.5018 ± 0.0102   KM   238.0204 ± 3.7684 0.7191 ± 0.0094 0.0189 ± 0.0025 0.8118 ± 0.0201 0.1176 ± 0.0111 0.3632 ± 0.0138 0.4874 ± 0.0387 0.1809 ± 0.0017 0.8088 ± 0.0279 1.6654 ± 0.6256 0.2767 ± 0.0121 0.1368 ± 0.0121 2.5823 ± 0.0427 0.1568 ± 0.0027 0.014 ± 0.0002 1.9179 ± 0.0796 -0.2128 ± 0.0356 23.8020 ± 0.0356 23.8020 ± 0.0356 23.8020 ± 0.0355 0.0355 ± 0.0602   FCM   301.2430 ± 10.6738 0.8541 ± 0.0154 0.0935 ± 0.0161 0.4784 ± 0.0480 0.2699 ± 0.0217 0.2844 ± 0.0238 0.3498 ± 0.0508 0.1429 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4032 ± 0.0101 0.4033 ± 0.0104 0.0760 ± 0.0263 0.1034 ± 0.0104 0.0998 ± 0.2102 0.1806 ± 0.0537	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0224 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0149 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.0459 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \\ MEC \\ \hline \\ 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.5364 \pm 0.0474 \\ 0.2515 \pm 0.0188 \\ 0.2984 \pm 0.0179 \\ 0.3593 \pm 0.0487 \\ 0.1443 \pm 0.0085 \\ 0.4028 \pm 0.0588 \\ 3.3267 \pm 1.2337 \\ 0.0830 \pm 0.0237 \\ 0.0830 \pm 0.0237 \\ 0.0830 \pm 0.0237 \\ 0.1065 \pm 0.0149 \\ 3.0147 \pm 0.2178 \\ 0.0217 \pm 0.0293 \\ 0.1065 \pm 0.0149 \\ 3.0147 \pm 0.0278 \\ 0.02994 \\ 0.02993 \\ 0.1065 \pm 0.0149 \\ 3.0147 \pm 0.2178 \\ 0.02099 \\ 0.02093 \\ 0.1065 \pm 0.0149 \\ 0.02093 \\ 0.1099 \pm 0.0293 \\ 0.009$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ \hline 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm 0.0025 \\ 0.0169 \pm 0.0006 \\ \hline 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ \hline 0.3606 \pm 0.0087 \\ \hline 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0060 \\ \hline 1.5200 \pm 0.2926 \\ \hline 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ \hline 2.5910 \pm 0.0087 \\ \hline 0.1347 \pm 0.0033 \\ \hline 0.0014 \pm 0.0033 \\ \hline 0.0014 \pm 0.0003 \\ \hline 1.5205 \pm 0.0256 \\ \hline 0.7486 \pm 0.0050 \\ \hline 0.8296 \pm 0.0057 \\ \hline 0.1331 \pm 0.0139 \\ \hline 0.0014 \pm 0.0033 \\ \hline 0.014 \pm 0.0003 \\ \hline 0.9102 \pm 0.0474 \\ \hline -0.1869 \pm 0.0073 \\ \hline 0.3567 \pm 0.0783 \\ \hline 0.7950 \pm 0.0256 \\ \hline 0.7486 \pm 0.0111 \\ \hline 0.6722 \pm 0.0250 \\ \hline FSC \\ \hline 0.9156 \pm 0.0119 \\ \hline 0.0576 \pm 0.0337 \\ \hline 0.3218 \pm 0.0492 \\ \hline 0.0331 \pm 0.0220 \\ \hline 0.1252 \pm 0.0392 \\ \hline 0.4267 \pm 0.0481 \\ \hline 0.1151 \pm 0.0095 \\ \hline 0.0376 \pm 0.1150 \\ \hline 0.0459 \pm 0.0267 \\ \hline 0.1325 \pm 0.0150 \\ \hline 0.376 \pm 0.1150 \\ \hline 0.28654 \pm 0.5831 \\ \hline 0.0490 \pm 0.0719 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM  344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1053 ± 0.0017 4.9440 ± 0.2232 -2.4247 ± 0.0255 39.5425 ± 0.0017 0.1741 ± 0.0039 0.1355 ± 0.0013 2PFCM  306.0312 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000 0.2439 ± 0.0000 0.2439 ± 0.0000 0.3305 ± 0.0000 0.1491 ± 0.0000 0.3406 ± 0.0000 0.3416 ± 0.0000 0.3491 ± 0.0000 0.3492 ± 0.0000 0.3493 ± 0.0000 0.3494 ± 0.0000 0.3495 ± 0.0000 0.3491 ± 0.0000 0.3492 ± 0.0000 0.3493 ± 0.0000 0.3494 ± 0.0000 0.3493 ± 0.0000 0.3494 ± 0.0000 0.3494 ± 0.0000 0.3495 ± 0.0000 0.3491 ± 0.0000 0.349275 ± 0.0000 0.0998 ± 0.0000 0.0998 ± 0.0000 0.0996 ± 0.0000 0.0996 ± 0.0000 0.1531 ± 0.0000	X X X  241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0000 1.8383 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8265 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0013 0.8708 ± 0.0013 0.8708 ± 0.0013 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.8708 ± 0.0003 0.9824 ± 0.0000 0.9824 ± 0.0000 0.9824 ± 0.0000 0.9824 ± 0.0000 0.0348 ± 0.0024 0.0348 ± 0.0024 0.0348 ± 0.0038 0.0244 ± 0.0060 0.0348 ± 0.0038 0.0249 ± 0.0081 0.0000 ± 0.0000 0.0732 ± 0.0087 4.6291 ± 0.0381 0.0066 ± 0.0021	0.3642 ± 0.0142 0.1465 ± 0.0120 HC 237.9126 ± 0.0000 0.7253 ± 0.0000 0.0218 ± 0.0000 0.1245 ± 0.0000 0.1245 ± 0.0000 0.1245 ± 0.0000 0.1572 ± 0.0000 0.1791 ± 0.0000 0.1791 ± 0.0000 0.1791 ± 0.0000 0.2671 ± 0.0000 0.2671 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1796 ± 0.0000 0.1796 ± 0.0000 0.1796 ± 0.0000 0.0008 ± 0.0000 0.0008 ± 0.0000 0.0008 ± 0.0000 0.1710 ± 0.0000 0.1710 ± 0.0000 0.1710 ± 0.0000 0.1710 ± 0.0000 0.1710 ± 0.0000 0.1710 ± 0.0000 0.1427 ± 0.0000	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.7111 ± 0.0000 0.8307 ± 0.0000 0.8307 ± 0.0000 0.3701 ± 0.0000 0.4134 ± 0.0000 0.1139 ± 0.0000 0.1141 ± 0.0000 0.1141 ± 0.0000 0.1141 ± 0.0000 0.1141 ± 0.0000 0.1141 ± 0.0000 0.1141 ± 0.0000 0.1141 ± 0.0000 0.1141 ± 0.0000 0.1141 ± 0.0000 0.1141 ± 0.0001 0.1159 ± 0.0000 0.1159 ± 0.0000 0.1159 ± 0.0000 0.1159 ± 0.0000 0.1159 ± 0.0000 0.7563 ± 0.0002 0.7670 ± 0.0000 0.768 ± 0.0000 0.7691 ± 0.0000
NMIT	$\begin{array}{l} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0117 \\ 0.81818 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 2.5823 \pm 0.0427 \\ 0.1568 \pm 0.0067 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ -0.2128 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.7342 \pm 0.0272 \\ 0.6355 \pm 0.0602 \\ \hline{\text{FCM}} \\ 301.2430 \pm 10.6738 \\ 0.2699 \pm 0.0217 \\ 0.2844 \pm 0.0238 \\ 0.3498 \pm 0.0508 \\ 0.1429 \pm 0.0101 \\ 0.4032 \pm 0.0668 \\ 0.1429 \pm 0.0101 \\ 0.4032 \pm 0.0668 \\ 0.1034 \pm 0.0124 \\ 0.0023 \pm 0.0101 \\ 0.4032 \pm 0.0668 \\ 0.1034 \pm 0.0101 \\ 0.4032 \pm 0.0668 \\ 0.1034 \pm 0.0149 \\ 3.0998 \pm 0.2102 \\ 0.1806 \pm 0.0537 \\ 0.0029 \pm 0.0010 \\ 2.9943 \pm 0.3742 \\ 0.9943 \pm 0.$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0224 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0149 \\ 2.5976 \pm 0.0149 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline MEC \\ 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0179 \\ 0.3593 \pm 0.0487 \\ 0.2515 \pm 0.0188 \\ 0.2984 \pm 0.0179 \\ 0.3593 \pm 0.0487 \\ 0.1443 \pm 0.0085 \\ 0.4028 \pm 0.0588 \\ 3.3267 \pm 1.2337 \\ 0.0830 \pm 0.0237 \\ 0.0830 \pm 0.0237 \\ 0.0830 \pm 0.0237 \\ 0.0805 \pm 0.0149 \\ 3.01209 \pm 0.0293 \\ 0.0027 \pm 0.0010 \\ 2.0679 \pm 0.2418 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0060 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 0.0014 \pm 0.0003 \\ 1.9102 \pm 0.0474 \\ -0.1869 \pm 0.00783 \\ \hline 0.7950 \pm 0.0256 \\ \hline 0.7486 \pm 0.0111 \\ 0.6722 \pm 0.0250 \\ \hline TSC \\ 387.2978 \pm 11.7520 \\ 0.3218 \pm 0.0492 \\ 0.3031 \pm 0.0220 \\ 0.1552 \pm 0.0392 \\ 0.1552 \pm 0.0392 \\ 0.1552 \pm 0.0392 \\ 0.0156 \pm 0.0115 \\ 0.0376 \pm 0.0156 \\ 3.1296 \pm 1.1438 \\ 0.0459 \pm 0.0267 \\ 0.0376 \pm 0.03150 \\ 2.8654 \pm 0.5831 \\ 0.2901 \pm 0.0003 \\ 2.8854 \pm 0.5831 \\ 0.2901 \pm 0.0003 \\ 2.3218 \pm 0.0409 \\ 0.0376 \pm 0.0150 \\ 0.376 \pm 0.0003 \\ 0.3218 \pm 0.0003 \\ 0.3233 \pm 0.0003 \\ 0.3233 \pm 0.0003 \\ 0.3233 \pm 0.0003 \\ 0.3334 \pm 0.0003 \\ 0.3323 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3334 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3334 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3334 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3334 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3334 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3334 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3334 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3323 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3323 \pm 0.3616 \\ 0.0019 \pm 0.0003 \\ 0.3036 \pm 0.0003 \\ 0.0019 \pm$	0.6269 ± 0.0000 0.5050 ± 0.0000 0.5050 ± 0.0000 EWPKM  344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0085 ± 0.0022 17.4298 ± 0.0013 3.5609 ± 0.0368 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1053 ± 0.0007 4.9440 ± 0.2232 -2.4247 ± 0.0233 0.1741 ± 0.0039 0.1355 ± 0.0007 0.0150 ± 0.0013 2PFCM  306.0312 ± 0.0000 0.8408 ± 0.0000 0.8408 ± 0.0000 0.2439 ± 0.0000 0.3405 ± 0.0000 0.3405 ± 0.0000 0.3405 ± 0.0000 0.1491 ± 0.0000 0.1491 ± 0.0000 0.1531 ± 0.0000 0.0960 ± 0.0000 0.3305 ± 0.0000 0.1531 ± 0.0000 0.0030 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.33187 ± 0.0000 0.3355 ± 0.0000	X X X 241.4227 ± 0.0360 0.7281 ± 0.0015 0.7281 ± 0.0015 0.7793 ± 0.0034 0.1251 ± 0.0015 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.1785 ± 0.0001 1.3344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0005 0.0007 ± 0.0000 1.8383 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0000 0.8265 ± 0.0003 0.8708 ± 0.0006 0.7799 ± 0.0003 BFC 365.3603 ± 7.7366 0.9824 ± 0.0049 0.0886 ± 0.0019 0.0517 ± 0.0137 0.5344 ± 0.0076 0.0224 ± 0.0060 0.2348 ± 0.0281 0.0451 ± 0.0063 0.0280 ± 0.0081 8.79181 ± 47.4428 0.0000 ± 0.00007 0.0732 ± 0.0087 4.6291 ± 0.0387 4.6291 ± 0.0383 0.0066 ± 0.0021 0.0066 ± 0.0021 0.0066 ± 0.0001 3.38393 ± 2.0233	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.1247 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.0008 \pm 0.0000 \\ 0.000000 \\ 0.00000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.0000$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.7111 ± 0.0000 0.8307 ± 0.0000 0.8307 ± 0.0000 0.163 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1321 ± 0.0000 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1545 ± 0.0001 0.1563 ± 0.0002 0.7914 ± 0.0001 0.7563 ± 0.0002 0.7914 ± 0.0001 0.7563 ± 0.0002 0.7914 ± 0.0001 0.7563 ± 0.0002 0.7914 ± 0.0001 0.7563 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0000 0.7914 ± 0.0000
NMI  ARI  ARI  Optdigits  WGSS  MRI  GPI  BHG  CI  TI  TOGI  RI  WGI  BHI  CHI  ARI  ARI  Optdigits  WGSS  MRI  WGI  BHG  CI  TI  TI  WGI  DI  DI  BHI  ARI  CHI  ARI  Optdigits  WGSS  MRI  GPI  BHG  RI  BHG  RI  CHI  TH  BHG  RI  BHG  RI  BHG  RI  BHG  RI  BHG  RI  RI  BHG  RI  RI  RI  BHG  RI  RI  RI  RI  RI  RI  RI  RI  RI  R	$\begin{array}{c} 0.6254 \pm 0.0046 \\ 0.5018 \pm 0.0102 \\ \hline \text{KM} \\ 238.0204 \pm 3.7684 \\ 0.7191 \pm 0.0094 \\ 0.0189 \pm 0.0025 \\ 0.8118 \pm 0.0201 \\ 0.1176 \pm 0.0111 \\ 0.3632 \pm 0.0138 \\ 0.4874 \pm 0.0387 \\ 0.1809 \pm 0.0017 \\ 0.8088 \pm 0.0279 \\ 1.6654 \pm 0.6256 \\ 0.2767 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0121 \\ 0.1368 \pm 0.0027 \\ 0.0014 \pm 0.0002 \\ 1.9179 \pm 0.0796 \\ 0.02128 \pm 0.0356 \\ 23.8020 \pm 0.3768 \\ 0.7537 \pm 0.0641 \\ 0.7537 \pm 0.0641 \\ 0.0935 \pm 0.0161 \\ 0.4784 \pm 0.0480 \\ 0.2699 \pm 0.0217 \\ 0.2844 \pm 0.0238 \\ 0.2844 \pm 0.0238 \\ 0.2844 \pm 0.0238 \\ 0.2844 \pm 0.0238 \\ 0.1429 \pm 0.0101 \\ 0.2844 \pm 0.0238 \\ 0.2844 \pm 0.0238 \\ 0.2699 \pm 0.0217 \\ 0.2844 \pm 0.0238 \\ 0.1429 \pm 0.0101 \\ 0.4032 \pm 0.0668 \\ 5.1299 \pm 2.4365 \\ 0.0760 \pm 0.0263 \\ 0.0760 \pm 0.0263 \\ 0.0760 \pm 0.0263 \\ 0.0760 \pm 0.0263 \\ 0.0760 \pm 0.0537 \\ 0.0029 \pm 0.0010 \end{array}$	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0249 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ 0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \text{MEC} \\ \hline \\ 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.0507 \\ \hline \text{MEC} \\ \hline \\ 289.1568 \pm 0.0487 \\ 0.0428 \pm 0.0474 \\ 0.2515 \pm 0.0188 \\ 0.2984 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.0507 \\ \hline \text{MEC} \\ \hline \\ 289.1568 \pm 0.0487 \\ 0.04028 \pm 0.0383 \\ 0.04037 \\ 0.04028 \pm 0.0588 \\ 0.04$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ 235.2651 \pm 0.7834 \\ \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ 0.8237 \pm 0.0063 \\ 0.1115 \pm 0.0045 \\ 0.3606 \pm 0.0087 \\ 0.4799 \pm 0.0476 \\ 0.1820 \pm 0.0004 \\ 0.8296 \pm 0.0060 \\ 1.5200 \pm 0.2926 \\ 0.2826 \pm 0.0050 \\ 1.5200 \pm 0.0053 \\ 0.1331 \pm 0.0139 \\ 2.5910 \pm 0.0087 \\ 0.1547 \pm 0.0033 \\ 1.9102 \pm 0.0044 \\ 0.0033 \\ 1.9102 \pm 0.00783 \\ 0.7950 \pm 0.0056 \\ 0.7486 \pm 0.0111 \\ 0.6722 \pm 0.0256 \\ 0.7486 \pm 0.0119 \\ 0.6722 \pm 0.0250 \\ 0.3218 \pm 0.0492 \\ 0.3031 \pm 0.0220 \\ 0.1252 \pm 0.0392 \\ 0.1252 \pm 0.0391 \\ 0.0376 \pm 0.0481 \\ 0.0151 \pm 0.0095 \\ 0.0376 \pm 0.0156 \\ 0.0156 \pm 0.0119 \\ 0.0564 \pm 0.0156 \\ 0.1252 \pm 0.0392 \\ 0.0376 \pm 0.0481 \\ 0.1151 \pm 0.0095 \\ 0.0376 \pm 0.0156 \\ 0.0156 \pm 0.0119 \\ 0.0376 \pm 0.0156 \\ 0.0156 \pm 0.0159 \\ 0.0376 \pm 0.0481 \\ 0.0159 \pm 0.0037 \\ 0.0991 \pm 0.0719 \\ 0.0019 \pm 0.0003$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM  344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.3499 ± 0.0462 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 1.053 ± 0.00368 0.1053 ± 0.00368 0.1053 ± 0.0037 0.0300 ± 0.0007 4.9440 ± 0.2232 -2.4247 ± 0.0255 39.5425 ± 0.0817 0.1741 ± 0.0039 0.1355 ± 0.0007 0.1401 ± 0.0000 0.846 ± 0.0000 0.846 ± 0.0000 0.846 ± 0.0000 0.2439 ± 0.0000 0.2439 ± 0.0000 0.3166 ± 0.0000 0.3166 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.3166 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.4423 ± 0.0000 0.1531 ± 0.0000 0.1531 ± 0.0000 0.1531 ± 0.0000 0.0030 ± 0.0000	X X X 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.1900 ± 0.0005 0.1900 ± 0.0005 0.0007 ± 0.0000 1.8383 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8265 ± 0.0029 24.6730 ± 0.0030 0.8708 ± 0.0049 0.0886 ± 0.0013 0.7799 ± 0.003 0.9324 ± 0.0049 0.0886 ± 0.0019 0.0224 ± 0.0049 0.0846 ± 0.0019 0.02348 ± 0.0281 0.0240 ± 0.0063 0.0280 ± 0.0081 0.0280 ± 0.0081 0.0280 ± 0.0081 0.0280 ± 0.0081 0.0280 ± 0.0081 0.0280 ± 0.0081 0.0280 ± 0.0081 0.0280 ± 0.0081 0.0280 ± 0.0081 0.0066 ± 0.0021	$\begin{array}{c} 0.3642 \pm 0.0142 \\ 0.1465 \pm 0.0120 \\ \hline {HC} \\ 237.9126 \pm 0.0000 \\ 0.7253 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.0218 \pm 0.0000 \\ 0.1245 \pm 0.0000 \\ 0.125 \pm 0.0000 \\ 0.1245 \pm 0.00$	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.7111 ± 0.0000 0.168 ± 0.0000 0.3701 ± 0.0000 0.1821 ± 0.0000 0.1330 ± 0.0000 0.1330 ± 0.0000 0.1330 ± 0.0000 0.1343 ± 0.0000 0.1343 ± 0.0000 0.1343 ± 0.0000 0.1343 ± 0.0000 0.1343 ± 0.0000 0.1545 ± 0.0001 0.0019 ± 0.0000 0.3701 ± 0.0000 0.3701 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0001 0.7563 ± 0.0001 0.7563 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7914 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.7563 ± 0.0000 0.114 ± 0.0000 0.1681 ± 0.0000 0.1682 ± 0.0000 0.1139 ± 0.0000 0.1139 ± 0.0000 0.1139 ± 0.0000 0.1139 ± 0.0000 0.1139 ± 0.0000 0.1544 ± 0.0000 0.1544 ± 0.0000 0.1544 ± 0.0000 0.1544 ± 0.0000 0.1544 ± 0.0000 0.1544 ± 0.0000 0.1544 ± 0.0000 0.1544 ± 0.0000 0.1001 ± 0.0000
NMIT   ARIT   Optdigits   WGSS   MRI   GPI   BHGIT   CI   TIT   DGIT   RIT   DIT   BHIT   RTI   WGIT   DIT   BHIT   ARCT   NMIT   ARIT   ART   GPI   BHGIT   CI   TIT   ART   ART   ART   GPI   BHGIT   CI   TIT   DGIT   RI   ART   BHGIT   CI   TIT   DGIT   RI   BHGIT   CI   TIT   DGIT   BHIT   THE   BHGIT   CI   TIT   DGIT   BHIT   RTI   DGIT   BHIT   DBI   BHGIT   CI   CI   TIT   DGIT   BHIT   DBI   BHIT   DBI   BHIT   DBI   BHIT   DBI   BHIT   DBI   BHIT   SERIT   DBI   BHIT   SERIT   DBI   BHIT   SERIT   BHIT   SERIT   0.6254 ± 0.0046 0.5018 ± 0.0102   KM   238.0204 ± 3.7684 0.7191 ± 0.0094 0.0189 ± 0.0025 0.8118 ± 0.0201 0.1176 ± 0.0111 0.3632 ± 0.0138 0.4874 ± 0.0387 0.1809 ± 0.0017 0.8088 ± 0.0279 1.6654 ± 0.6256 0.2767 ± 0.0121 0.1368 ± 0.0121 2.5823 ± 0.0427 0.1568 ± 0.0121 2.5823 ± 0.0427 0.1568 ± 0.0067 0.0014 ± 0.0002 1.9179 ± 0.0796 -0.2128 ± 0.0356 23.8020 ± 0.0356 23.8020 ± 0.03768 0.7537 ± 0.0641 0.7342 ± 0.0272 0.6355 ± 0.0602   FCM   301.2430 ± 0.0648 0.0935 ± 0.0161 0.4784 ± 0.0480 0.2699 ± 0.0217 0.2844 ± 0.0238 0.3498 ± 0.0508 0.1429 ± 0.0101 0.4032 ± 0.0668 5.1299 ± 2.4365 0.0760 ± 0.0263 0.1034 ± 0.0104 3.0998 ± 0.2102 0.1806 ± 0.0537 0.0092 ± 0.0101 0.1304 ± 0.0104 3.0998 ± 0.2102 0.1806 ± 0.0537 0.0092 ± 0.0010 2.9943 ± 0.3742 -1.1949 ± 0.1293	$\begin{array}{c} 0.3779 \pm 0.0006 \\ 0.1315 \pm 0.0002 \\ \hline \\ KM++ \\ 238.6506 \pm 4.5788 \\ 0.7199 \pm 0.0093 \\ 0.0190 \pm 0.0026 \\ 0.8130 \pm 0.0224 \\ 0.1162 \pm 0.0138 \\ 0.3669 \pm 0.0151 \\ 0.4926 \pm 0.0475 \\ 0.1809 \pm 0.0023 \\ 0.8042 \pm 0.0336 \\ 1.4157 \pm 0.4323 \\ 0.2766 \pm 0.0151 \\ 0.1405 \pm 0.0149 \\ 2.5976 \pm 0.0149 \\ 0.1561 \pm 0.0073 \\ 0.0013 \pm 0.0003 \\ 1.8986 \pm 0.0961 \\ -0.2187 \pm 0.0433 \\ 23.8651 \pm 0.4579 \\ 0.7357 \pm 0.0528 \\ 0.7240 \pm 0.0255 \\ 0.6160 \pm 0.0507 \\ \hline \text{MEC} \\ \hline 289.1568 \pm 9.2649 \\ 0.8345 \pm 0.0171 \\ 0.0734 \pm 0.0161 \\ 0.5364 \pm 0.0474 \\ 0.2515 \pm 0.0188 \\ 0.2984 \pm 0.0179 \\ 0.3593 \pm 0.0487 \\ 0.1443 \pm 0.0085 \\ 0.4028 \pm 0.0588 \\ 3.2267 \pm 1.2337 \\ 0.0830 \pm 0.0237 \\ 0.1065 \pm 0.01149 \\ 3.0147 \pm 0.2178 \\ 0.0217 \pm 0.0101 \\ 0.00071 \pm 0.0101 \\ 0.26679 \pm 0.02418 \\ -1.0071 \pm 0.1217 \\ \end{array}$	$\begin{array}{c} 0.1238 \pm 0.0232 \\ 0.0376 \pm 0.0073 \\ \hline PKM \\ \hline 235.2651 \pm 0.7834 \\ \hline \textbf{0.7111} \pm \textbf{0.0025} \\ 0.0169 \pm 0.0006 \\ \hline 0.8237 \pm 0.0063 \\ \hline 0.1115 \pm 0.0045 \\ \hline 0.3606 \pm 0.0087 \\ \hline 0.4799 \pm 0.0476 \\ \hline 0.1820 \pm 0.0004 \\ \hline 0.8296 \pm 0.0060 \\ \hline 1.5200 \pm 0.2926 \\ \hline 0.2826 \pm 0.0055 \\ \hline 0.1331 \pm 0.0139 \\ \hline 2.5910 \pm 0.0087 \\ \hline 0.1371 \pm 0.0139 \\ \hline 2.5910 \pm 0.0087 \\ \hline 0.1547 \pm 0.0033 \\ \hline 0.0014 \pm 0.0003 \\ \hline 1.9102 \pm 0.0474 \\ \hline -0.1869 \pm 0.0073 \\ \hline 23.5267 \pm 0.0783 \\ \hline 0.7950 \pm 0.0256 \\ \hline 0.7486 \pm 0.0111 \\ \hline 0.6722 \pm 0.0250 \\ \hline FSC \\ \hline 1.520 \pm 0.0250 \\ \hline 0.0576 \pm 0.0337 \\ \hline 0.3031 \pm 0.0220 \\ \hline 0.151 \pm 0.0033 \\ \hline 0.3031 \pm 0.0220 \\ \hline 0.151 \pm 0.0039 \\ \hline 0.0156 \pm 0.0119 \\ \hline 0.0576 \pm 0.0392 \\ \hline 0.151 \pm 0.0095 \\ \hline 0.0376 \pm 0.0156 \\ \hline 3.1296 \pm 1.1438 \\ \hline 0.0459 \pm 0.0267 \\ \hline 0.1325 \pm 0.0150 \\ \hline 0.28654 \pm 0.5831 \\ \hline 0.0901 \pm 0.0013 \\ \hline 0.0019 \pm 0.0013 \\ \hline 0.0019 \pm 0.0013 \\ \hline 0.2383 \pm 0.3616 \\ \hline -3.8470 \pm 0.5176 \\ \hline \end{array}$	0.6269 ± 0.0000 0.5050 ± 0.0000 EWPKM  344.0539 ± 5.0062 0.9429 ± 0.0013 0.1919 ± 0.0047 0.2000 ± 0.0057 0.3780 ± 0.0044 0.1385 ± 0.0032 0.1278 ± 0.0011 0.0885 ± 0.0022 17.4298 ± 2.3087 0.0089 ± 0.0020 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1053 ± 0.0137 3.5609 ± 0.0368 0.1053 ± 0.0030 1.0141 ± 0.0030 0.0153 ± 0.0007 0.0153 ± 0.0007 0.0153 ± 0.0007 0.0153 ± 0.0007 0.0153 ± 0.0007 0.0153 ± 0.0000 0.0000 ± 0.0007 0.0000 ± 0.0007 0.0000 ± 0.0007 0.0000 ± 0.0007 0.0000 ± 0.0007 0.0000 ± 0.0000 0.0000  ± 0.0000 0.0000 ± 0.0000 0.12218 ± 0.0000	X X X 241.4227 ± 0.0360 0.7281 ± 0.0015 0.0231 ± 0.0005 0.7793 ± 0.0034 0.1251 ± 0.0014 0.3568 ± 0.0004 0.6619 ± 0.0100 0.1785 ± 0.0001 0.7446 ± 0.0021 1.0344 ± 0.0013 0.2740 ± 0.0003 0.1733 ± 0.0024 2.6041 ± 0.0035 0.1900 ± 0.0005 0.0007 ± 0.0000 1.8383 ± 0.0047 -0.2950 ± 0.0029 24.6730 ± 0.0300 0.8265 ± 0.0003 0.8708 ± 0.0040 0.7799 ± 0.0003 0.8708 ± 0.0040 0.7799 ± 0.003 0.8708 ± 0.0040 0.7799 ± 0.003 0.8708 ± 0.0040 0.7799 ± 0.003 0.8708 ± 0.0040 0.7799 ± 0.003 0.8708 ± 0.0060 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.003 0.7799 ± 0.0003 0.7799 ± 0.0003 0.7799 ± 0.0003 0.7799 ± 0.0003	0.3642 ± 0.0142 0.1465 ± 0.0120 HC 237.9126 ± 0.0000 0.7253 ± 0.0000 0.0218 ± 0.0000 0.7862 ± 0.0000 0.1245 ± 0.0000 0.1245 ± 0.0000 0.1575 ± 0.0000 0.1791 ± 0.0000 0.1791 ± 0.0000 0.1791 ± 0.0000 0.2671 ± 0.0000 0.2671 ± 0.0000 0.2671 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1692 ± 0.0000 0.1793 ± 0.0000 0.0008 ± 0.0000 0.0008 ± 0.0000 0.0008 ± 0.0000 0.0008 ± 0.0000 0.8250 ± 0.0000 0.7170 ± 0.0000 0.818 ± 0.0000 0.7170 ± 0.0000 0.818 ± 0.0124 0.5403 ± 0.0571 0.2534 ± 0.0279 0.2929 ± 0.0274 0.3552 ± 0.0543 0.1427 ± 0.0077 0.4001 ± 0.0538 3.5445 ± 1.4785 0.0866 ± 0.0251 0.0866 ± 0.0251 0.0866 ± 0.0251 0.0160 ± 0.0155 3.0222 ± 0.2087 0.0028 ± 0.0012 2.7372 ± 0.2927 -0.9709 ± 0.1269	0.6313 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.4596 ± 0.0000 0.7111 ± 0.0000 0.8307 ± 0.0000 0.8307 ± 0.0000 0.1059 ± 0.0000 0.3701 ± 0.0000 0.1321 ± 0.0000 0.11321 ± 0.0000 0.11321 ± 0.0000 0.11321 ± 0.0000 0.11413 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.1143 ± 0.0000 0.1159 ± 0.0000 0.1159 ± 0.0000 0.1159 ± 0.0000 0.1159 ± 0.0000 0.1159 ± 0.0000 0.0019 ± 0.0000 0.7563 ± 0.0002 0.7670 ± 0.0000 0.7563 ± 0.0002 0.7670 ± 0.0000 0.7111 ± 0.0000 0.1059 ± 0.0000 0.1059 ± 0.0000 0.1059 ± 0.0000 0.1315 ± 0.0000 0.1315 ± 0.0000 0.1315 ± 0.0000 0.1315 ± 0.0000 0.1315 ± 0.0000 0.1315 ± 0.0000 0.1311 ± 0.0000	

TABLE V THE MEAN VALUES AND STANDARD DEVIATIONS OF INTERNAL AND EXTERNAL CLUSTER VALIDITY INDICES RESULTING FROM CAFCM, AND THIRTEEN BASELINES ON EGS and LR, where N=2 and M=5 in CAPKM++2.0 and CAFCM on EGS, and N=3 and M=15 in CAPKM++2.0 and CAFCM on LR.

EGS	KM	KM++	PKM	EWPKM	SC	НС	CAPKM++2.0
WGSS↓	$699.6124 \pm 0.3592$	$699.5962 \pm 0.3487$		$699.6561 \pm 0.0000$	$700.3543\pm0.0001$	$708.1015 \pm 0.0000$	699.3998 ± 0.0000
MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ CHI↑ RTI↓ BHI↑ PBMI↑ XBI↓ DBI↓ LSSRI↑	$\begin{array}{c} 0.9233 \pm 0.0002 \\ 0.1883 \pm 0.0001 \\ 0.2466 \pm 0.0005 \\ 0.3640 \pm 0.0004 \\ 0.1744 \pm 0.0003 \\ 0.3843 \pm 0.0609 \\ 0.2231 \pm 0.0034 \\ 0.0834 \pm 0.0006 \\ 2.9960 \pm 0.0201 \\ 0.1328 \pm 0.0003 \\ 0.1005 \pm 0.0139 \\ 0.9995 \pm 0.0005 \\ 0.0824 \pm 0.0005 \\ 0.0015 \pm 0.0109 \\ 2.4836 \pm 0.0019 \\ 2.24836 \pm 0.0019 \end{array}$	$\begin{array}{c} 0.9233 \pm 0.0002 \\ 0.1883 \pm 0.0001 \\ 0.2467 \pm 0.0004 \\ 0.3639 \pm 0.0004 \\ 0.1744 \pm 0.0003 \\ 0.3933 \pm 0.0570 \\ 0.2233 \pm 0.0033 \\ 0.0835 \pm 0.0005 \\ 2.9950 \pm 0.0195 \\ 0.1328 \pm 0.0002 \\ 0.1029 \pm 0.0121 \\ 0.9095 \pm 0.0005 \\ 0.0824 \pm 0.0005 \\ 0.0014 \pm 0.0004 \\ 3.4264 \pm 0.0106 \\ -2.4833 \pm 0.0065 \\ 0.0166 \\ \end{array}$	$\begin{array}{c} 0.9233 \pm 0.0006 \\ 0.1883 \pm 0.0005 \\ 0.2467 \pm 0.0018 \\ 0.2467 \pm 0.0018 \\ 0.3639 \pm 0.0010 \\ 0.1745 \pm 0.0013 \\ 0.3486 \pm 0.0166 \\ 0.2242 \pm 0.0017 \\ 0.0836 \pm 0.0007 \\ 2.9899 \pm 0.0276 \\ 0.1328 \pm 0.0008 \\ 0.0930 \pm 0.0043 \\ 0.9930 \pm 0.0006 \\ 0.0825 \pm 0.0007 \\ 0.0017 \pm 0.0001 \\ 3.4236 \pm 0.0154 \\ 2.4815 \pm 0.0099 \end{array}$	$\begin{array}{c} 0.9236 \pm 0.0000 \\ 0.1887 \pm 0.0000 \\ 0.2452 \pm 0.0000 \\ 0.2452 \pm 0.0000 \\ 0.3645 \pm 0.0000 \\ 0.1734 \pm 0.0000 \\ 0.4417 \pm 0.0000 \\ 0.0833 \pm 0.0000 \\ 3.0018 \pm 0.0000 \\ 0.1322 \pm 0.0000 \\ 0.1322 \pm 0.0000 \\ 0.0822 \pm 0.0000 \\ 0.0822 \pm 0.0000 \\ 0.0011 \pm 0.0000 \\ 0.34309 \pm 0.0000 \\ 0.24855 \pm 0.0000 \\ 0.24855 \pm 0.0000 \\ 0.24855 \pm 0.0000 \\ 0.00000 \\ 0.00000000000 \\ 0.00000000$	$\begin{array}{c} 0.9270 \pm 0.0000 \\ 0.1914 \pm 0.0000 \\ 0.1914 \pm 0.0000 \\ 0.2345 \pm 0.0000 \\ 0.3708 \pm 0.0000 \\ 0.1658 \pm 0.0000 \\ 0.2612 \pm 0.0000 \\ 0.2131 \pm 0.0000 \\ 0.0783 \pm 0.0000 \\ 3.1912 \pm 0.0000 \\ 0.1265 \pm 0.0000 \\ 0.0677 \pm 0.0000 \\ 0.0774 \pm 0.0000 \\ 0.0774 \pm 0.0000 \\ 0.0303 \pm 0.0000 \\ 0.35355 \pm 0.0000 \\ -2.5467 \pm 0.0000 \\ -2$	$\begin{array}{c} 0.9643 \pm 0.0000 \\ 0.2215 \pm 0.0000 \\ 0.2215 \pm 0.0000 \\ 0.1109 \pm 0.0000 \\ 0.4375 \pm 0.0000 \\ 0.9783 \pm 0.0000 \\ 0.5407 \pm 0.0000 \\ 0.1528 \pm 0.0000 \\ 0.0401 \pm 0.0000 \\ 0.0401 \pm 0.0000 \\ 0.0720 \pm 0.0000 \\ 0.0720 \pm 0.0000 \\ 0.0428 \pm 0.0000 \\ 0.0422 \pm 0.0000 \\ 0.0422 \pm 0.0000 \\ 0.0425 \pm 0.0000 \\ 0.0425 \pm 0.0000 \\ 0.0425 \pm 0.0000 \\ 0.0425 \pm 0.0000 \\ 0.0425 \pm 0.0000 \\ 0.0425 \pm 0.0000 \\ 0.0425 \pm 0.0000 \\ 0.0425 \pm 0.0000 \\ 0.0425 \pm 0.0000 \\ 0.0007 \pm 0.0000 \\ 0.000$	$\begin{array}{c} 0.9231 \pm 0.0000 \\ 0.1882 \pm 0.0000 \\ 0.2471 \pm 0.0000 \\ 0.2471 \pm 0.0000 \\ 0.3637 \pm 0.0000 \\ 0.31474 \pm 0.0000 \\ 0.3449 \pm 0.0000 \\ 0.2246 \pm 0.0000 \\ 0.2246 \pm 0.0000 \\ 0.9333 \pm 0.0000 \\ 2.9841 \pm 0.0000 \\ 0.1330 \pm 0.0000 \\ 0.0921 \pm 0.0000 \\ 0.0922 \pm 0.0000 \\ 0.0027 \pm 0.0000 \\ 0.0017 \pm 0.0000 \\ 0.017 \pm 0.0000 \\ 0.24796 \pm 0.0000 \\ 0.24796 \pm 0.0000 \\ 0.0000 \\ 0.0000 \\ 0.00000 \\ 0.000000 \\ 0.000000 \\ 0.0000000 \\ 0.00000000$
TWI↓ ACC↑ NMI↑ ARI↑	$349.8062 \pm 0.1796$ $0.6190 \pm 0.1107$ $0.0941 \pm 0.1468$ $0.1046 \pm 0.1599$	$349.7981 \pm 0.1744$ $0.6145 \pm 0.1085$ $0.0885 \pm 0.1443$ $0.0985 \pm 0.1572$	$349.7503 \pm 0.2395$ $0.5998 \pm 0.0290$ $0.0357 \pm 0.0352$ $0.0430 \pm 0.0398$	$349.8587 \pm 0.0000$ $0.5015 \pm 0.0000$ $0.0000 \pm 0.0000$ $-0.0001 \pm 0.0000$	$351.4634 \pm 0.0002$ $0.7968 \pm 0.0001$ $0.3139 \pm 0.0001$ $0.3523 \pm 0.0002$	$364.3754 \pm 0.0000$ $0.6062 \pm 0.0000$ $0.0729 \pm 0.0000$ $0.0406 \pm 0.0000$	349.6999 ± 0.0000 0.5898 ± 0.0001 0.0262 ± 0.0000 0.0322 ± 0.0001
EGS	FCM	MEC	FSC	2PFCM	BFC	KFCM	CAFCM
WGSS↓	$701.7638 \pm 2.3880$	707.6171 ± 3.8777	$713.7808 \pm 19.2256$	$700.2104 \pm 0.0000$	×	$706.7937 \pm 3.7233$	699.3998 ± 0.0000
MRI↓ GPI↓ BHGI↑ CI↓ TI↑ DGI↑ RLI↑ RTI↓ WGI↑ DI↑ RTI↓ WGI↑ DBI↓ DBI↓ LSSRI↑ TWI↓	$\begin{array}{c} 0.9263 \pm 0.0033 \\ 0.1908 \pm 0.0028 \\ 0.2367 \pm 0.0110 \\ 0.3695 \pm 0.0060 \\ 0.1674 \pm 0.0078 \\ 0.3672 \pm 0.0345 \\ 0.2136 \pm 0.0106 \\ 0.0796 \pm 0.0041 \\ 3.1493 \pm 0.1793 \\ 0.1282 \pm 0.0051 \\ 0.0960 \pm 0.0096 \\ 0.9127 \pm 0.0035 \\ 0.0786 \pm 0.0040 \\ 0.0116 \pm 0.0004 \\ 3.5118 \pm 0.0971 \\ -2.5320 \pm 0.0539 \\ 351.0553 \pm 1.3317 \\ \end{array}$	$\begin{array}{c} 0.9344 \pm 0.0048 \\ 0.1976 \pm 0.0040 \\ 0.2095 \pm 0.0162 \\ 0.3842 \pm 0.0088 \\ 0.1481 \pm 0.0114 \\ 0.3764 \pm 0.0380 \\ 0.1894 \pm 0.0158 \\ 0.0697 \pm 0.0059 \\ 3.6117 \pm 0.3095 \\ 0.1155 \pm 0.0076 \\ 0.0980 \pm 0.0104 \\ 0.9212 \pm 0.0051 \\ 0.0688 \pm 0.0058 \\ 0.0015 \pm 0.0073 \\ 3.7587 \pm 0.1605 \\ 2.26669 \pm 0.0852 \\ 354.3084 \pm 1.9544 \\ \end{array}$	$\begin{array}{c} 0.9493 \pm 0.0346 \\ 0.2091 \pm 0.0278 \\ 0.1630 \pm 0.1117 \\ 0.4100 \pm 0.0613 \\ 0.1152 \pm 0.0790 \\ 0.3746 \pm 0.0615 \\ 0.1595 \pm 0.0861 \\ 0.0522 \pm 0.0351 \\ 66.5073 \pm 141.6230 \\ 0.0853 \pm 0.0564 \\ 0.0981 \pm 0.0178 \\ 0.9383 \pm 0.0293 \\ 0.0523 \pm 0.0350 \\ 0.016 \pm 0.0007 \\ 10.6748 \pm 12.2112 \\ -3.8010 \pm 1.8519 \\ 360.6021 \pm 12.3114 \\ \end{array}$	$\begin{array}{c} 0.1310 \pm 0.0000 \\ 0.0865 \pm 0.0000 \\ 0.9104 \pm 0.0000 \\ 0.0812 \pm 0.0000 \\ 0.0019 \pm 0.0000 \\ 3.4507 \pm 0.0000 \\ -2.4971 \pm 0.0000 \end{array}$	× × × × × × × × × × × × × × × × × × ×	$\begin{array}{c} 0.9334 \pm 0.0046 \\ 0.1968 \pm 0.0039 \\ 0.2129 \pm 0.0155 \\ 0.0155 \pm 0.0109 \\ 0.3769 \pm 0.0370 \\ 0.1923 \pm 0.0150 \\ 0.0709 \pm 0.0057 \\ 3.5469 \pm 0.2906 \\ 0.1171 \pm 0.0072 \\ 0.0979 \pm 0.0101 \\ 0.9202 \pm 0.0049 \\ 0.0700 \pm 0.0056 \\ 0.0015 \pm 0.0033 \\ 3.7253 \pm 0.1515 \\ -2.6492 \pm 0.0809 \\ 353.9031 \pm 1.8724 \\ \end{array}$	$\begin{array}{c} 0.9231 \pm 0.0000 \\ 0.1882 \pm 0.0000 \\ 0.2471 \pm 0.0000 \\ 0.3637 \pm 0.0000 \\ 0.3637 \pm 0.0000 \\ 0.1747 \pm 0.0000 \\ 0.3449 \pm 0.0000 \\ 0.2246 \pm 0.0000 \\ 0.2246 \pm 0.0000 \\ 0.0838  \pm 0.0000 \\ 0.1330 \pm 0.0000 \\ 0.0921  \pm 0.0000 \\ 0.0921  \pm 0.0000 \\ 0.0927  \pm 0.0000 \\ 0.0027  \pm 0.0000 \\ 0.0017  \pm 0.0000 \\ 0.24796  \pm 0.0000 \\ 3.4204  \pm 0.0000 \\ 2.4796  \pm 0.0000 \\ 349.6999  \pm 0.0000 \end{array}$
ACC↑ NMI↑ ARI↑	$\begin{array}{c} 0.6705 \pm 0.0998 \\ \hline{0.1361 \pm 0.1249} \\ 0.1553 \pm 0.1377 \end{array}$	$\begin{array}{c} 0.6219 \pm 0.0712 \\ 0.0664 \pm 0.0659 \\ 0.0792 \pm 0.0764 \end{array}$	$\begin{array}{c} 0.6703  \pm  0.2042 \\ 0.2577  \pm  0.361 \\ \hline 0.2784  \pm  0.3861 \end{array}$	$\begin{array}{c} 0.5639 \pm 0.0000 \\ 0.0133 \pm 0.0000 \\ 0.0162 \pm 0.0000 \end{array}$	× × ×	$\begin{array}{c} 0.6214  \pm  0.0813 \\ 0.0715  \pm  0.0817 \\ 0.0848  \pm  0.0940 \end{array}$	$\begin{array}{c} 0.5898 \pm 0.0000 \\ 0.0262 \pm 0.0000 \\ 0.0322 \pm 0.0000 \end{array}$
LR	KM	KM++	PKM	EWPKM	SC	HC	GARWA 2.0
WGSS↓					30	TIC .	CAPKM++2.0
MRIL GPIL BHGIT CLL TIT TRLIT CHIT RTIL WGIT DIT BHIT PBMIT XBIL DBIL LSSRIT TWIL ACCT NMIT	$\begin{array}{c} 0.5847 \pm 0.0037 \\ 0.0070 \pm 0.0003 \\ 0.8367 \pm 0.0066 \\ 0.1072 \pm 0.0034 \\ 0.2446 \pm 0.0044 \\ 0.2086 \pm 0.0051 \\ 0.1528 \pm 0.0003 \\ 1.7576 \pm 0.0197 \\ 1.2844 \pm 0.1338 \\ 0.2420 \pm 0.0046 \\ 0.0455 \pm 0.0010 \\ 0.1399 \pm 0.0023 \\ \textbf{0.0061} \pm \textbf{0.0000} \\ 1.6843 \pm 0.0403 \\ 0.5639 \pm 0.0475 \\ 0.2561 \pm 0.0097 \\ 0.2561 \pm 0.0097 \\ 0.3562 \pm 0.0051 \end{array}$	$\begin{array}{c} 172.2106 \pm 1.2526 \\ 0.5843 \pm 0.0033 \\ 0.0070 \pm 0.0003 \\ 0.8382 \pm 0.0055 \\ 0.1063 \pm 0.0029 \\ 0.2466 \pm 0.0049 \\ 0.2084 \pm 0.0045 \\ 1.7584 \pm 0.0201 \\ 1.2616 \pm 0.1410 \\ 0.2434 \pm 0.0025 \\ 0.0456 \pm 0.0010 \\ 0.1395 \pm 0.0022 \\ 0.0061 \pm 0.0001 \\ 0.6061 \pm 0.0001 \\ 0.6073 \pm 0.0000 \\ 1.6787 \pm 0.0019 \\ 0.0061 \pm 0.0000 \\ 1.6787 \pm 0.0419 \\ 0.5643 \pm 0.0114 \\ 6.6235 \pm 0.0482 \\ 0.2582 \pm 0.0087 \\ 0.3538 \pm 0.0055 \\ 0.1317 \pm 0.0005 \end{array}$	$\begin{array}{c} 0.5844 \pm 0.0018 \\ 0.0068 \pm 0.0001 \\ 0.8341 \pm 0.0040 \\ 0.1092 \pm 0.0021 \\ 0.2382 \pm 0.0033 \\ 0.2093 \pm 0.0002 \\ 1.7531 \pm 0.0129 \\ 1.4320 \pm 0.1503 \\ 0.2391 \pm 0.0029 \\ 0.0456 \pm 0.0007 \\ 0.1409 \pm 0.0012 \\ 0.0016 \pm 0.0002 \\ 0.016 \pm 0.0001 \\ 0.0016 \pm 0.0001 \\ 0.0016 \pm 0.0001 \\ 0.0016 \pm 0.0010 \\ 0.0016 \pm 0.0010 \\ 0.0016 \pm 0.0001 \\ 0.0016 \pm 0.0010 \\ 0.0016 \pm 0.0001 \\ 0.0016$	$\begin{array}{c} 285.7491 \pm 1.2048 \\ 0.8217 \pm 0.0012 \\ 0.0358 \pm 0.0006 \\ 0.3671 \pm 0.0028 \\ 0.3042 \pm 0.0011 \\ 0.1235 \pm 0.0014 \\ 0.1637 \pm 0.0007 \\ 0.1061 \pm 0.0002 \\ 0.4214 \pm 0.0002 \\ 0.4214 \pm 0.0020 \\ 18.7362 \pm 2.7223 \\ 0.0021 \pm 0.0004 \\ 0.0408 \pm 0.0000 \\ 0.2665 \pm 0.0020 \\ 0.0042 \pm 0.0002 \\ 0.0030 \pm 0.0000 \\ 0.0402 \pm 0.0002 \\ 0.0030 \pm 0.0000 \\ 0.1901 \pm 0.1554 \\ 0.8641 \pm 0.0048 \\ 12.8526 \pm 0.0118 \\ 0.0943 \pm 0.0011 \\ \end{array}$	$\begin{array}{c} 320.8225 \pm 3.7651 \\ 0.8209 \pm 0.0086 \\ 0.1081 \pm 0.0113 \\ 0.4255 \pm 0.0235 \\ 0.2975 \pm 0.0098 \\ 0.2602 \pm 0.0107 \\ 0.3352 \pm 0.0058 \\ 0.0817 \pm 0.0026 \\ 0.2304 \pm 0.0177 \\ 4.2300 \pm 0.3628 \\ 0.0891 \pm 0.0077 \\ \textbf{0.0623} \pm 0.0077 \\ \textbf{0.0623} \pm 0.0011 \\ 0.0572 \pm 0.0040 \\ 0.0040 \pm 0.0001 \\ \textbf{0.0009} \pm 0.00001 \\ \textbf{1.0860} \pm 0.0279 \\ \textbf{1.4710} \pm 0.0775 \\ \textbf{14.8516} \pm 0.2144 \\ 0.1279 \pm 0.0114 \\ 0.2703 \pm 0.0235 \end{array}$	177.5555 ± 0.0000 0.6268 ± 0.0000 0.0131 ± 0.0000 0.7685 ± 0.0000 0.1304 ± 0.0000 0.2590 ± 0.0000 0.2015 ± 0.0000 1.4861 ± 0.0000 1.4861 ± 0.0000 1.932 ± 0.0000 0.1982 ± 0.0000 0.01982 ± 0.0000 0.01380 ± 0.0000 0.0159 ± 0.0000 0.0159 ± 0.0000 0.0159 ± 0.0000 0.0059 ± 0.0000 0.0059 ± 0.0000 0.0059 ± 0.0000 0.3961 ± 0.0000 0.3961 ± 0.0000 0.3961 ± 0.0000 0.3961 ± 0.0000 0.3602 ± 0.0000 0.4082 ± 0.0000 0.1293 ± 0.0000 0.1293 ± 0.0000	
MRILL GPIL BHGI↑ CIL TIT DGI↑ RLI↑ CHI↑ RTIL WGI↑ DI↑ SHI1↑ XBIL DBIL LSSRI↑ TWIL ACC↑	$\begin{array}{c} 0.5847 \pm 0.0037 \\ 0.0070 \pm 0.0003 \\ 0.8367 \pm 0.0066 \\ 0.1072 \pm 0.0034 \\ 0.2446 \pm 0.0034 \\ 0.2486 \pm 0.0051 \\ 0.1528 \pm 0.0003 \\ 1.7576 \pm 0.0197 \\ 1.2844 \pm 0.1338 \\ 0.2420 \pm 0.0046 \\ 0.0455 \pm 0.0010 \\ 0.1399 \pm 0.0023 \\ 0.0061 \pm 0.0004 \\ 0.0016 \pm 0.0000 \\ 1.6843 \pm 0.0403 \\ 0.5639 \pm 0.0112 \\ 0.62561 \pm 0.0075 \\ 0.2561 \pm 0.0097 \\ \end{array}$	$\begin{array}{c} 0.5843 \pm 0.0033 \\ 0.0070 \pm 0.0003 \\ 0.8382 \pm 0.0055 \\ 0.1063 \pm 0.0029 \\ 0.2466 \pm 0.0049 \\ 0.2084 \pm 0.0045 \\ 0.1529 \pm 0.0004 \\ \hline 1.7584 \pm 0.0201 \\ 1.2616 \pm 0.1410 \\ 0.2434 \pm 0.0054 \\ 0.00456 \pm 0.0010 \\ \hline 0.1395 \pm 0.00022 \\ \hline 0.0061 \pm 0.0000 \\ 1.6787 \pm 0.0019 \\ 0.5643 \pm 0.0114 \\ 0.6235 \pm 0.00482 \\ \hline 0.2582 \pm 0.0087 \\ \end{array}$	$\begin{array}{c} 0.5844 \pm 0.0018 \\ 0.0068 \pm 0.0001 \\ \hline{0.8341} \pm 0.0040 \\ 0.1092 \pm 0.0021 \\ 0.2382 \pm 0.0033 \\ 0.2093 \pm 0.0046 \\ \hline{0.1529} \pm 0.0002 \\ \hline{1.7531} \pm 0.0129 \\ 1.4320 \pm 0.1503 \\ 0.2391 \pm 0.0007 \\ \hline{0.1409} \pm 0.0007 \\ \hline{0.1409} \pm 0.0012 \\ \hline{0.0061} \pm 0.0000 \\ \hline{1.7244} \pm 0.0275 \\ 0.5614 \pm 0.0073 \\ \hline{0.5614} \pm 0.0013 \\ \hline{0.2621} \pm 0.0061 \\ \hline \end{array}$	$\begin{array}{c} 285.7491 \pm 1.2048 \\ 0.8217 \pm 0.0012 \\ 0.0358 \pm 0.0006 \\ 0.3671 \pm 0.0028 \\ 0.3042 \pm 0.0011 \\ 0.1235 \pm 0.0014 \\ 0.1637 \pm 0.0007 \\ 0.1061 \pm 0.0002 \\ 0.4214 \pm 0.0020 \\ 18.7362 \pm 2.7223 \\ 0.0021 \pm 0.0004 \\ 0.0408 \pm 0.0000 \\ 0.2665 \pm 0.0020 \\ 0.0032 \pm 0.0000 \\ 0.1091 \pm 0.0004 \\ 0.00402 \pm 0.0002 \\ 0.0032 \pm 0.0000 \\ 0.187362 \pm 0.0011 \\ 0.0043 \pm 0.0011 \\ 0.0043 \pm 0.0011 \\ 0.0043 \pm 0.0011 \\ 0.0041 \pm 0.0048 \\ 0.0041 \pm 0.0048 \\ 0.0041 \pm 0.0048 \\ 0.0043 \pm 0.0011 \\ 0.0043 \pm 0.0011 \\ 0.0043 \pm 0.0011 \\ 0.0048 \pm 0.0012 \\ 0.0049 \pm 0.0011 \\ 0.0048 \pm 0.0012 \\ 0.0049 \pm 0.0012 \\ 0.0049 \pm 0.0011 \\ 0.0049 \pm 0.0012 \\ 0.0$	$\begin{array}{c} 320.8225 \pm 3.7651 \\ 0.8209 \pm 0.0086 \\ 0.1081 \pm 0.0113 \\ 0.4255 \pm 0.0235 \\ 0.2975 \pm 0.0098 \\ 0.2602 \pm 0.0107 \\ \textbf{0.3352} \pm \textbf{0.0058} \\ 0.0817 \pm 0.0026 \\ 0.2304 \pm 0.0177 \\ 4.2300 \pm 0.3628 \\ 0.0891 \pm 0.0077 \\ \textbf{0.0623} \pm \textbf{0.0011} \\ 0.0572 \pm 0.0040 \\ 0.0040 \pm 0.0001 \\ \textbf{0.0009} \pm \textbf{0.0000} \\ \textbf{1.0860} \pm \textbf{0.0279} \\ -1.4710 \pm 0.0775 \\ \textbf{1.4.8516} \pm 0.2144 \\ 0.1279 \pm 0.0114 \\ \end{array}$	$\begin{array}{c} 177.5555 \pm 0.0000 \\ 0.6268 \pm 0.0000 \\ 0.0131 \pm 0.0000 \\ 0.7685 \pm 0.0000 \\ 0.7685 \pm 0.0000 \\ 0.7685 \pm 0.0000 \\ 0.2590 \pm 0.0000 \\ 0.2015 \pm 0.0000 \\ 0.2015 \pm 0.0000 \\ 0.1481 \pm 0.0000 \\ 1.4861 \pm 0.0000 \\ 1.4861 \pm 0.0000 \\ 0.1481 \pm 0.0000 \\ 0.01982 \pm 0.0000 \\ 0.0059 \pm 0.0000 \\ 0.0017 \pm 0.0000 \\ 1.7262 \pm 0.0000 \\ 0.3961 \pm 0.0000 \\ 0.3487 \pm 0.0000 \\ 0.2600 \pm 0.0000 \\ 0.4082 \pm 0.0000 \\ \end{array}$	$\begin{array}{c} 169.7897 \pm 0.094 \\ \textbf{0.5804} \pm 0.0014 \\ \textbf{0.0067} \pm 0.0002 \\ \textbf{0.8458} \pm 0.0022 \\ \textbf{0.1025} \pm 0.0009 \\ \textbf{0.2497} \pm 0.0019 \\ \textbf{0.2088} \pm 0.0011 \\ \textbf{0.1534} \pm 0.0000 \\ \textbf{1.7976} \pm 0.0015 \\ \textbf{1.1236} \pm 0.0278 \\ \textbf{0.2444} \pm 0.0024 \\ \textbf{0.0446} \pm 0.0011 \\ \textbf{0.1382} \pm 0.0014 \\ \textbf{0.059} \pm 0.0015 \\ \textbf{0.1382} \pm 0.0014 \\ \textbf{0.059} \pm 0.0015 \\ \textbf{0.3684} \pm 0.0017 \\ \textbf{0.059} \pm 0.0000 \\ \textbf{0.015} \pm 0.0000 \\ \textbf{0.015} \pm 0.0000 \\ \textbf{0.015} \pm 0.0000 \\ \textbf{0.5304} \pm 0.0036 \\ \textbf{0.2574} \pm 0.0048 \\ \textbf{0.3608} \pm 0.0044 \\ \textbf{0.3608} \pm 0.0044 \\ \textbf{0.3608} \pm 0.0041 \\ \end{array}$
MRIL GPIL BHGI↑ CTL TI↑ DGI↑ RLI↑ RTIL WGI↑ DI↑ BHI↑ PBMI↑ ZBIL LSSRI↑ TWIL ACC↑ NMI↑ ARI↑	$\begin{array}{c} 0.5847 \pm 0.0037 \\ 0.0070 \pm 0.0003 \\ 0.8367 \pm 0.0066 \\ 0.1072 \pm 0.0034 \\ 0.2446 \pm 0.0044 \\ 0.2086 \pm 0.0051 \\ 0.1528 \pm 0.0003 \\ 1.7576 \pm 0.0197 \\ 1.2844 \pm 0.1338 \\ 0.2420 \pm 0.0044 \\ 0.0455 \pm 0.0010 \\ 0.1399 \pm 0.0023 \\ 0.0061 \pm 0.0004 \\ 0.0016 \pm 0.0004 \\ 0.0016 \pm 0.0004 \\ 0.0016 \pm 0.0004 \\ 0.0016 \pm 0.0004 \\ 0.00539 \pm 0.0112 \\ 0.6254 \pm 0.0475 \\ 0.2561 \pm 0.0057 \\ 0.3562 \pm 0.0057 \\ \hline \text{FCM} \end{array}$	$\begin{array}{c} 0.5843 \pm 0.0033 \\ 0.0070 \pm 0.0003 \\ 0.8382 \pm 0.0025 \\ 0.1063 \pm 0.0029 \\ 0.2466 \pm 0.0049 \\ 0.2084 \pm 0.0045 \\ 1.529 \pm 0.0004 \\ 1.7584 \pm 0.0201 \\ 1.2616 \pm 0.1410 \\ 0.2434 \pm 0.0054 \\ 0.0456 \pm 0.0010 \\ 0.1395 \pm 0.0024 \\ 0.0061 \pm 0.0000 \\ 1.6787 \pm 0.0014 \\ 0.0015 \pm 0.0000 \\ 1.6787 \pm 0.0419 \\ 0.05643 \pm 0.0114 \\ 6.6235 \pm 0.0482 \\ 0.2582 \pm 0.0087 \\ 0.3538 \pm 0.0055 \\ 0.1317 \pm 0.0055 \\ \hline \text{MEC} \end{array}$	$\begin{array}{c} 0.5844 \pm 0.0018 \\ 0.0068 \pm 0.0001 \\ 0.8341 \pm 0.0040 \\ 0.1092 \pm 0.0021 \\ 0.2382 \pm 0.0033 \\ 0.2093 \pm 0.0046 \\ 0.1529 \pm 0.0002 \\ 1.7531 \pm 0.0129 \\ 1.4320 \pm 0.1503 \\ 0.2391 \pm 0.0029 \\ 0.0456 \pm 0.0007 \\ 0.1409 \pm 0.0012 \\ 0.0061 \pm 0.0002 \\ 0.0016 \pm 0.0001 \\ 1.7244 \pm 0.0275 \\ 0.5614 \pm 0.0013 \\ 0.2621 \pm 0.0061 \\ 0.3528 \pm 0.0037 \\ 0.1367 \pm 0.0035 \\ \hline \text{FSC} \end{array}$	$\begin{array}{c} 285.7491 \pm 1.2048 \\ 0.8217 \pm 0.0012 \\ 0.0358 \pm 0.0006 \\ 0.3671 \pm 0.0028 \\ 0.3042 \pm 0.0011 \\ 0.1235 \pm 0.0014 \\ 0.1637 \pm 0.0002 \\ 0.4214 \pm 0.0020 \\ 18.7362 \pm 2.7223 \\ 0.0021 \pm 0.0004 \\ 0.0408 \pm 0.0000 \\ 0.2665 \pm 0.0020 \\ 0.0042 \pm 0.0002 \\ 0.0042 \pm 0.0004 \\ 0.1554 \\ 0.0021 \pm 0.1554 \\ 0.0048 \pm 0.0000 \\ 0.0042 \pm 0.0001 \\ 0.0042 \pm 0.0002 \\ 0.0030 \pm 0.0000 \\ 0.1901 \pm 0.1554 \\ 0.0841 \pm 0.0048 \\ 12.8526 \pm 0.0184 \\ 0.0943 \pm 0.0011 \\ 0.0685 \pm 0.0013 \\ 0.0152 \pm 0.0003 \\ 2PFCM \end{array}$	$\begin{array}{c} 320.8225 \pm 3.7651 \\ 0.8209 \pm 0.0086 \\ 0.1081 \pm 0.0113 \\ 0.4255 \pm 0.0235 \\ 0.2975 \pm 0.0098 \\ 0.2602 \pm 0.0107 \\ \textbf{0.3352} \pm \textbf{0.0058} \\ 0.0817 \pm 0.0026 \\ 0.2304 \pm 0.0177 \\ 4.2300 \pm 0.3628 \\ 0.0891 \pm 0.0077 \\ \textbf{0.0623} \pm \textbf{0.0040} \\ 0.0040 \pm 0.0011 \\ 0.0572 \pm 0.0040 \\ 0.0040 \pm 0.0001 \\ \textbf{0.0009} \pm \textbf{0.0000} \\ \textbf{1.0860} \pm \textbf{0.0275} \\ 14.8516 \pm 0.2144 \\ 0.1279 \pm 0.0114 \\ 0.2703 \pm 0.0225 \\ 0.0075 \pm 0.0026 \\ \end{array}$	$\begin{array}{c} 177.5555 \pm 0.0000 \\ 0.6268 \pm 0.0000 \\ 0.0131 \pm 0.0000 \\ 0.7685 \pm 0.0000 \\ 0.7685 \pm 0.0000 \\ 0.1304 \pm 0.0000 \\ 0.2590 \pm 0.0000 \\ 0.2015 \pm 0.0000 \\ 0.2015 \pm 0.0000 \\ 1.481 \pm 0.0000 \\ 1.4861 \pm 0.0000 \\ 1.4861 \pm 0.0000 \\ 0.1482 \pm 0.0000 \\ 0.01982 \pm 0.0000 \\ 0.01982 \pm 0.0000 \\ 0.01982 \pm 0.0000 \\ 0.01982 \pm 0.0000 \\ 0.0059 \pm 0.0000 \\ 0.0059 \pm 0.0000 \\ 0.0059 \pm 0.0000 \\ 0.0059 \pm 0.0000 \\ 0.0059 \pm 0.0000 \\ 0.0059 \pm 0.0000 \\ 0.0059 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ 0.3961 \pm 0.0000 \\ 0.2600 \pm 0.0000 \\ 0.4082 \pm 0.0000 \\ 0.1293 \pm 0.0000 \\ 0.1293 \pm 0.0000 \\ 0.1293 \pm 0.0000 \\ 0.1293 \pm 0.0000 \\ 0.1293 \pm 0.0000 \\ 0.1293 \pm 0.0000 \\ 0.0000 \pm 0.0000 \\ $	$\begin{array}{c} 169.7897 \pm 0.094 \\ \hline \textbf{0.5804} \pm 0.0014 \\ \textbf{0.0067} \pm 0.0002 \\ \textbf{0.8488} \pm 0.0022 \\ \textbf{0.1025} \pm 0.0009 \\ \textbf{0.2497} \pm 0.0019 \\ \textbf{0.2088} \pm 0.0011 \\ \textbf{0.1534} \pm 0.0000 \\ \textbf{1.7976} \pm 0.0015 \\ \hline \textbf{1.1236} \pm 0.0278 \\ \textbf{0.2494} \pm 0.0024 \\ \textbf{0.0446} \pm 0.0011 \\ \textbf{0.1382} \pm 0.0014 \\ \textbf{0.0059} \pm 0.0000 \\ \textbf{0.0015} \pm 0.0000 \\ \textbf{0.2574} \pm 0.0048 \\ \textbf{0.3608} \pm 0.0011 \\ \textbf{0.1294} \pm 0.0024 \\ \textbf{CAFCM} \\ \end{array}$

#### REFERENCES

- [1] A. K. Jain, M. N. Murty, and P. J. Flynn, "Data clustering: a review," *ACM Computing Surveys*, vol. 31, no. 3, pp. 264–323, 1999.
- [2] A. K. Jain, "Data clustering: 50 years beyond k-means," Pattern Recognition Letters, vol. 31, no. 8, pp. 651–666, 2010.
- [3] R. Xu and D. Wunsch, "Survey of clustering algorithms," *IEEE Transactions on Neural Networks*, vol. 16, no. 3, pp. 645–678, 2005.
- [4] X. Peng, J. Feng, J. T. Zhou, Y. Lei, and S. Yan, "Deep subspace clustering," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 31, no. 12, pp. 5509–5521, 2020.
- [5] S. Zeng, X. Duan, H. Li, J. Bai, Y. Tang, and Z. Wang, "A sparse framework for robust possibilistic k-subspace clustering," *IEEE Transactions on Fuzzy Systems*, 2023, in press.
- [6] L. Jing, M. K. Ng, and J. Z. Huang, "An entropy weighting k-means algorithm for subspace clustering of high-dimensional sparse data," *IEEE Transactions on Knowledge and Data Engineering*, vol. 19, no. 8, pp. 1026–1041, 2007.
- [7] S. Chakraborty, D. Paul, S. Das, and J. Xu, "Entropy weighted power k-means clustering," in *International Conference on Artificial Intelligence and Statistics*. PMLR, 2020, pp. 691–701.
- [8] S. Chakraborty and S. Das, "Detecting meaningful clusters from highdimensional data: A strongly consistent sparse center-based clustering approach," *IEEE Transactions on Pattern Analysis and Machine Intelli*gence, 2023, in press.
- [9] J. B. M. Benjamin and M.-S. Yang, "Weighted multiview possibilistic c-means clustering with L2 regularization," *IEEE Transactions on Fuzzy Systems*, vol. 30, no. 5, pp. 1357–1370, 2022.
- [10] J. Yang and C.-T. Lin, "Multi-view adjacency-constrained hierarchical clustering," *IEEE Transactions on Emerging Topics in Computational Intelligence*, vol. 7, no. 4, pp. 1126–1138, 2023.
- [11] P. Macnaughton-Smith, W. Williams, M. Dale, and L. Mockett, "Dissimilarity analysis: a new technique of hierarchical sub-division," *Nature*, vol. 202, no. 4936, pp. 1034–1035, 1964.
- [12] S. C. Johnson, "Hierarchical clustering schemes," *Psychometrika*, vol. 32, no. 3, pp. 241–254, 1967.
- [13] S. Lloyd, "Least squares quantization in PCM," *IEEE Transactions on Information Theory*, vol. 28, no. 2, pp. 129–137, 1982.
- [14] J. Wang, "A linear assignment clustering algorithm based on the least similar cluster representatives," *IEEE Trans. Systems, Man and Cyber*netics, Part A: Systems and Humans, vol. 29, no. 1, pp. 100–104, 1999.
- [15] M. Tiwari, M. J. Zhang, J. Mayclin, S. Thrun, C. Piech, and I. Shomorony, "Banditpam: Almost linear time k-medoids clustering via multi-armed bandits," in *Advances in Neural Information Processing* Systems, vol. 33, 2020, pp. 10211–10222.
- [16] B. Zhang, "Generalized k-harmonic means-dynamic weighting of data in unsupervised learning," in *Proceedings of the 2001 SIAM Interna*tional Conference on Data Mining. SIAM, 2001, pp. 1–13.
- [17] J. Shi and J. Malik, "Normalized cuts and image segmentation," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 22, no. 8, pp. 888–905, 2000.
- [18] A. Ng, M. Jordan, and Y. Weiss, "On spectral clustering: Analysis and an algorithm," in *Advances in Neural Information Processing Systems*, T. Dietterich, S. Becker, and Z. Ghahramani, Eds., vol. 14. MIT Press, 2001.
- [19] Q. Wang, Z. Qin, F. Nie, and X. Li, "Spectral embedded adaptive neighbors clustering," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 30, no. 4, pp. 1265–1271, 2018.
- [20] J. Bilmes, "A gentle tutorial of the EM algorithm and its application to parameter estimation for Gaussian mixture and hidden Markov models," International Computer Science Institute, Tech. Rep. TR-97-021, 1997.
- [21] D. Comaniciu and P. Meer, "Mean shift: A robust approach toward feature space analysis," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 24, no. 5, pp. 603–619, 2002.
- [22] A. Bechini, F. Marcelloni, and A. Renda, "TSF-DBSCAN: A novel fuzzy density-based approach for clustering unbounded data streams," *IEEE Transactions on Fuzzy Systems*, vol. 30, no. 3, pp. 623–637, 2022.
- [23] A. Cornuéjols, C. Wemmert, P. Gançarski, and Y. Bennani, "Collaborative clustering: Why, when, what and how," *Information Fusion*, vol. 39, pp. 81–95, 2018.
- [24] X. Yang, C. Deng, Z. Dang, and D. Tao, "Deep multiview collaborative clustering," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 34, no. 1, pp. 516–526, 2023.
- [25] J. Xu and K. Lange, "Power k-means clustering," in *International Conference on Machine Learning*. PMLR, 2019, pp. 6921–6931.
- [26] H. Li and J. Wang, "Collaborative annealing power k-means++ clustering," *Knowledge-Based Systems*, vol. 255, p. 109593, 2022.

- [27] —, "CAPKM++ 2.0: An upgraded version of the collaborative annealing power k-means++ clustering algorithm," *Knowledge-Based Systems*, p. 110241, 2023.
- [28] R. Krishnapuram and J. M. Keller, "A possibilistic approach to clustering," *IEEE Transactions on Fuzzy Systems*, vol. 1, no. 2, pp. 98–110, 1993
- [29] E. H. Ruspini, J. C. Bezdek, and J. M. Keller, "Fuzzy clustering: A historical perspective," *IEEE Computational Intelligence Magazine*, vol. 14, no. 1, pp. 45–55, 2019.
- [30] M.-S. Yang and C.-Y. Lai, "A robust automatic merging possibilistic clustering method," *IEEE Transactions on Fuzzy Systems*, vol. 19, no. 1, pp. 26–41, 2010.
- [31] K. D. Koutroumbas, S. D. Xenaki, and A. A. Rontogiannis, "On the convergence of the sparse possibilistic c-means algorithm," *IEEE Transactions on Fuzzy Systems*, vol. 26, no. 1, pp. 324–337, 2017.
- [32] J. C. Bezdek, Pattern Recognition with Fuzzy Objective Function Algorithms. USA: Kluwer Academic Publishers, 1981.
- [33] Y. Lin and S. Chen, "A centroid auto-fused hierarchical fuzzy c-means clustering," *IEEE Transactions on Fuzzy Systems*, vol. 29, no. 7, pp. 2006–2017, 2020.
- [34] Z. Bian, F.-L. Chung, and S. Wang, "Fuzzy density peaks clustering," IEEE Transactions on Fuzzy Systems, vol. 29, no. 7, pp. 1725–1738, 2021.
- [35] J. Zhou, W. Pedrycz, C. Gao, Z. Lai, J. Wan, and Z. Ming, "Robust jointly sparse fuzzy clustering with neighborhood structure preservation," *IEEE Transactions on Fuzzy Systems*, vol. 30, no. 4, pp. 1073– 1087, 2022.
- [36] S. Song, Z. Jia, J. Yang, and N. Kasabov, "Image segmentation based on fuzzy low-rank structural clustering," *IEEE Transactions on Fuzzy Systems*, 2023, in press.
- [37] Q. Chen, F. Nie, W. Yu, and X. Li, "ℓ<sub>2,p</sub>-norm and mahalanobis distance based robust fuzzy c-means," *IEEE Transactions on Fuzzy Systems*, 2023, in press.
- [38] D. L. Pham and J. L. Prince, "An adaptive fuzzy c-means algorithm for image segmentation in the presence of intensity inhomogeneities," *Pattern Recognition Letters*, vol. 20, no. 1, pp. 57–68, 1999.
- [39] R. J. Hathaway, J. C. Bezdek, and Y. Hu, "Generalized fuzzy c-means clustering strategies using  $l_p$  norm distances," *IEEE Transactions on Fuzzy Systems*, vol. 8, no. 5, pp. 576–582, 2000.
- [40] L. Szilagyi, Z. Benyo, S. M. Szilágyi, and H. Adam, "MR brain image segmentation using an enhanced fuzzy c-means algorithm," in Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, vol. 1. IEEE, 2003, pp. 724–726.
- [41] W. Cai, S. Chen, and D. Zhang, "Fast and robust fuzzy c-means clustering algorithms incorporating local information for image segmentation," *Pattern Recognition*, vol. 40, no. 3, pp. 825–838, 2007.
- [42] C.-H. Li, W.-C. Huang, B.-C. Kuo, and C.-C. Hung, "A novel fuzzy weighted c-means method for image classification," *International Jour*nal of Fuzzy Systems, vol. 10, no. 3, pp. 168–173, 2008.
- [43] C.-C. Hung, S. Kulkarni, and B.-C. Kuo, "A new weighted fuzzy c-means clustering algorithm for remotely sensed image classification," *IEEE Journal of Selected Topics in Signal Processing*, vol. 5, no. 3, pp. 543–553, 2010.
- [44] L. Zhu, F.-L. Chung, and S. Wang, "Generalized fuzzy c-means clustering algorithm with improved fuzzy partitions," *IEEE Transactions on Systems, Man, and Cybernetics, Part B (Cybernetics)*, vol. 39, no. 3, pp. 578–591, 2009.
- [45] S. Krinidis and V. Chatzis, "A robust fuzzy local information c-means clustering algorithm," *IEEE Transactions on Image Processing*, vol. 19, no. 5, pp. 1328–1337, 2010.
- [46] T. C. Glenn, A. Zare, and P. D. Gader, "Bayesian fuzzy clustering," IEEE Transactions on Fuzzy Systems, vol. 23, no. 5, pp. 1545–1561, 2014.
- [47] J. Fan, J. Wang, and M. Han, "Cooperative coevolution for large-scale optimization based on kernel fuzzy clustering and variable trust region methods," *IEEE Transactions on Fuzzy Systems*, vol. 22, no. 4, pp. 829– 839, Aug 2014.
- [48] T. W. Cheng, D. B. Goldgof, and L. O. Hall, "Fast fuzzy clustering," Fuzzy Sets and Systems, vol. 93, no. 1, pp. 49–56, 1998.
- [49] H. Hou and S. Liu, "An improved fuzzy c-means algorithm based on genetic algorithm," *Computer Engineering*, vol. 31, no. 17, pp. 152–154, 2005.
- [50] J. Yu, P. Guo, P. Chen, Z. Zhang, and W. Ruan, "Remote sensing image classification based on improved fuzzy c-means," *Geo-spatial Information Science*, vol. 11, no. 2, pp. 90–94, 2008.

- [51] D.-W. Kim, K. H. Lee, and D. Lee, "A novel initialization scheme for the fuzzy c-means algorithm for color clustering," *Pattern Recognition Letters*, vol. 25, no. 2, pp. 227–237, 2004.
- [52] K. S. Tan, W. H. Lim, and N. A. M. Isa, "Novel initialization scheme for fuzzy c-means algorithm on color image segmentation," *Applied Soft Computing*, vol. 13, no. 4, pp. 1832–1852, 2013.
- [53] H. Yang, J. Peng, B. Xia, and D. Zhang, "Remote sensing classification using fuzzy c-means clustering with spatial constraints based on markov random field," *European Journal of Remote Sensing*, vol. 46, no. 1, pp. 305–316, 2013.
- [54] J. Fan and J. Wang, "A two-phase fuzzy clustering algorithm based on neurodynamic optimization with its application for PolSAR image segmentation," *IEEE Transactions on Fuzzy Systems*, vol. 26, no. 1, pp. 72–83, Feb 2018.
- [55] M. N. Ahmed, S. M. Yamany, N. Mohamed, A. A. Farag, and T. Moriarty, "A modified fuzzy c-means algorithm for bias field estimation and segmentation of MRI data," *IEEE Transactions on Medical Imaging*, vol. 21, no. 3, pp. 193–199, 2002.
- [56] S. Chen and D. Zhang, "Robust image segmentation using fcm with spatial constraints based on new kernel-induced distance measure," *IEEE Transactions on Systems, Man, and Cybernetics, Part B (Cybernetics)*, vol. 34, no. 4, pp. 1907–1916, 2004.
- [57] J. C. Dunn, "A fuzzy relative of the isodata process and its use in detecting compact well-separated clusters," *Journal of Cybernetics*, vol. 3, no. 3, pp. 32–57, 1973.
- [58] J. Kennedy and R. Eberhart, "Particle swarm optimization," in *Proceedings of ICNN'95-International Conference on Neural Networks*, vol. 4. IEEE, 1995, pp. 1942–1948.
- [59] H. Che, J. Wang, and A. Cichocki, "Sparse signal reconstruction via collaborative neurodynamic optimization," *Neural Networks*, vol. 154, pp. 255–269, 2022.
- [60] J. Li, K. Cheng, S. Wang, F. Morstatter, R. P. Trevino, J. Tang, and H. Liu, "Feature selection: A data perspective," ACM Computing Surveys (CSUR), vol. 50, no. 6, p. 94, 2018.
- [61] J. Alcalá-Fdez, A. Fernández, J. Luengo, J. Derrac, S. García, L. Sánchez, and F. Herrera, "KEEL data-mining software tool: data set repository, integration of algorithms and experimental analysis framework." *Journal of Multiple-Valued Logic & Soft Computing*, vol. 17, 2011
- [62] V. Arzamasov, K. Böhm, and P. Jochem, "Towards concise models of grid stability," in 2018 IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids (SmartGridComm). IEEE, 2018, pp. 1–6.
- [63] P. W. Frey and D. J. Slate, "Letter recognition using holland-style adaptive classifiers," *Machine Learning*, vol. 6, pp. 161–182, 1991.
- [64] G. Gan and J. Wu, "A convergence theorem for the fuzzy subspace clustering (FSC) algorithm," *Pattern Recognition*, vol. 41, no. 6, pp. 1939–1947, 2008.
- [65] R.-P. Li and M. Mukaidono, "A maximum-entropy approach to fuzzy clustering," in *Proceedings of 1995 IEEE International Conference on Fuzzy Systems.*, vol. 4, 1995, pp. 2227–2232.
- [66] T. C. Havens, J. C. Bezdek, C. Leckie, L. O. Hall, and M. Palaniswami, "Fuzzy c-means algorithms for very large data," *IEEE Transactions on Fuzzy Systems*, vol. 20, no. 6, pp. 1130–1146, 2012.



Hongzong LI received the B.E. degree in automation from Northeastern University, Shenyang, Liaoning, China, in 2020. He is currently a Ph.D. candidate with the Department of Computer Science, City University of Hong Kong, Hong Kong. His current research interests include optimization, computational intelligence, and clustering.



Jun Wang (Life Fellow) received his B.S. and M.S. degrees in 1982 and 1985 from Dalian University of Technology, Dalian, China, and his Ph.D. degree in 1991 from Case Western Reserve University, Cleveland, Ohio, USA. He held various academic positions at Dalian University of Technology, Case Western Reserve University, University of North Dakota, and the Chinese University of Hong Kong, Hong Kong. He also held various short-term or part-time visiting positions at the U.S. Air Force Armstrong Laboratory, Dayton, Ohio, USA; RIKEN

Brain Science Institute, Tokyo, Japan; Huazhong University of Science and Technology, Wuhan, China; Shanghai Jiao Tong University, Shanghai, China; Dalian University of Technology, Dalian, China; and Swinburne University of Technology, Melbourne, Australia. He is currently a chair professor at City University of Hong Kong, Hong Kong. He was a recipient of several awards such as the Research Excellence Award from the Chinese University of Hong Kong (2008-2009), Outstanding Achievement Award from Asia-Pacific Neural Network Assembly (2011), IEEE Transactions on Neural Networks Outstanding Paper Award (2011), Neural Networks Pioneer Award from the IEEE Computational Intelligence Society (2014), and Norbert Wiener Award from the IEEE Systems, Man and Cybernetics Society (2019). He served as the General Chair of the 13th/25th International Conference on Neural Information Processing (2006/2018) and the IEEE World Congress on Computational Intelligence (2008). He is an IEEE Systems, Man, and Cybernetics Society Distinguished Lecturer (2017-2022), was a Distinguished Lecturer of IEEE Computational Intelligence Society (2010-2012, 2014-2016). He was the Editor-in-Chief of the IEEE Transactions on Cybernetics (2014-2019).