Correlation coefficients when k= 2

For topic 1

  1.0000 -0.0308

 -0.0308 1.0000

For topic 2

  1.0000   0.0295

 0.0295 1.0000

Correlation coefficients when k= 3

For topic 1

  1.0000 -0.0405

 -0.0405 1.0000

For topic 2

  1.0000 -0.0035

 -0.0035 1.0000

For topic 3

  1.0000   0.0231

 0.0231 1.0000

Correlation coefficients when k= 4

For topic 1

  1.0000 -0.0353

 -0.0353 1.0000

For topic 2

  1.0000   0.0093

 0.0093 1.0000

For topic 3

   1.0000 -0.0391

  -0.0391   1.0000

For topic 4

   1.0000   0.0356

   0.0356   1.0000

Correlation coefficients when k= 5

For topic 1

   1.0000   0.0442

   0.0442   1.0000

For topic 2

   1.0000   0.0060

   0.0060   1.0000

For topic 3

   1.0000   0.0076

   0.0076   1.0000

For topic 4

   1.0000 -0.0132

  -0.0132   1.0000

For topic 5

   1.0000   0.0307

   0.0307   1.0000

Correlation coefficients when k= 6

For topic 1

```
1.0000   0.0032
0.0032   1.0000
```

For topic 2

```
1.0000   -0.0037
-0.0037   1.0000
```

For topic 3

```
1.0000   -0.0433
-0.0433   1.0000
```

For topic 4

```
1.0000   0.0037
0.0037   1.0000
```

For topic 5

```
1.0000   0.0114
0.0114   1.0000
```

For topic 6

```
1.0000   0.0325
0.0325   1.0000
```

Correlation coefficients when k= 7

For topic 1

```
1.0000   0.0143
0.0143   1.0000
```

For topic 2

```
1.0000   -0.0157
-0.0157   1.0000
```

For topic 3

1.0000   0.0283

0.0283   1.0000

For topic 4

1.0000 -0.0134

-0.0134   1.0000

For topic 5

1.0000   0.0176

0.0176   1.0000

For topic 6

1.0000 -0.0363

-0.0363   1.0000

For topic 7

1.0000   0.0252

0.0252   1.0000

Correlation coefficients when k= 8

For topic 1

1.0000 -0.0529

-0.0529   1.0000

For topic 2

1.0000 -0.0044

-0.0044   1.0000

For topic 3

1.0000 -0.0687

-0.0687 1.0000

For topic 4

1.0000 0.0370

0.0370 1.0000

For topic 5

1.0000 -0.0059

-0.0059 1.0000

For topic 6

1.0000 -0.0153

-0.0153 1.0000

For topic 7

1.0000 -0.0043

-0.0043 1.0000

For topic 8

1.0000 0.0278

0.0278 1.0000

Correlation coefficients when k= 9

For topic 1

1.0000 0.0080

0.0080 1.0000

For topic 2

1.0000 -0.0207

-0.0207 1.0000

For topic 3

  1.0000 -0.0551

 -0.0551 1.0000

For topic 4

  1.0000 -0.0172

 -0.0172 1.0000

For topic 5

  1.0000 0.0129

 0.0129 1.0000

For topic 6

  1.0000 0.0156

 0.0156 1.0000

For topic 7

  1.0000 0.0180

 0.0180 1.0000

For topic 8

  1.0000 -0.0221

 -0.0221 1.0000

For topic 9

  1.0000 0.0310

 0.0310 1.0000

Correlation coefficients when k= 10

For topic 1

    1.0000 -0.0181

    -0.0181   1.0000

For topic 2

    1.0000   0.0154

    0.0154   1.0000

For topic 3

    1.0000 -0.0322

    -0.0322   1.0000

For topic 4

    1.0000 -0.0226

    -0.0226   1.0000

For topic 5

    1.0000 -0.0415

    -0.0415   1.0000

For topic 6

    1.0000 -0.0453

    -0.0453   1.0000

For topic 7

    1.0000 -0.0413

    -0.0413   1.0000

For topic 8

    1.0000 -0.0152

    -0.0152   1.0000

For topic 9

    1.0000   -0.0315

   -0.0315   1.0000

For topic 10

    1.0000   -0.0186

   -0.0186   1.0000