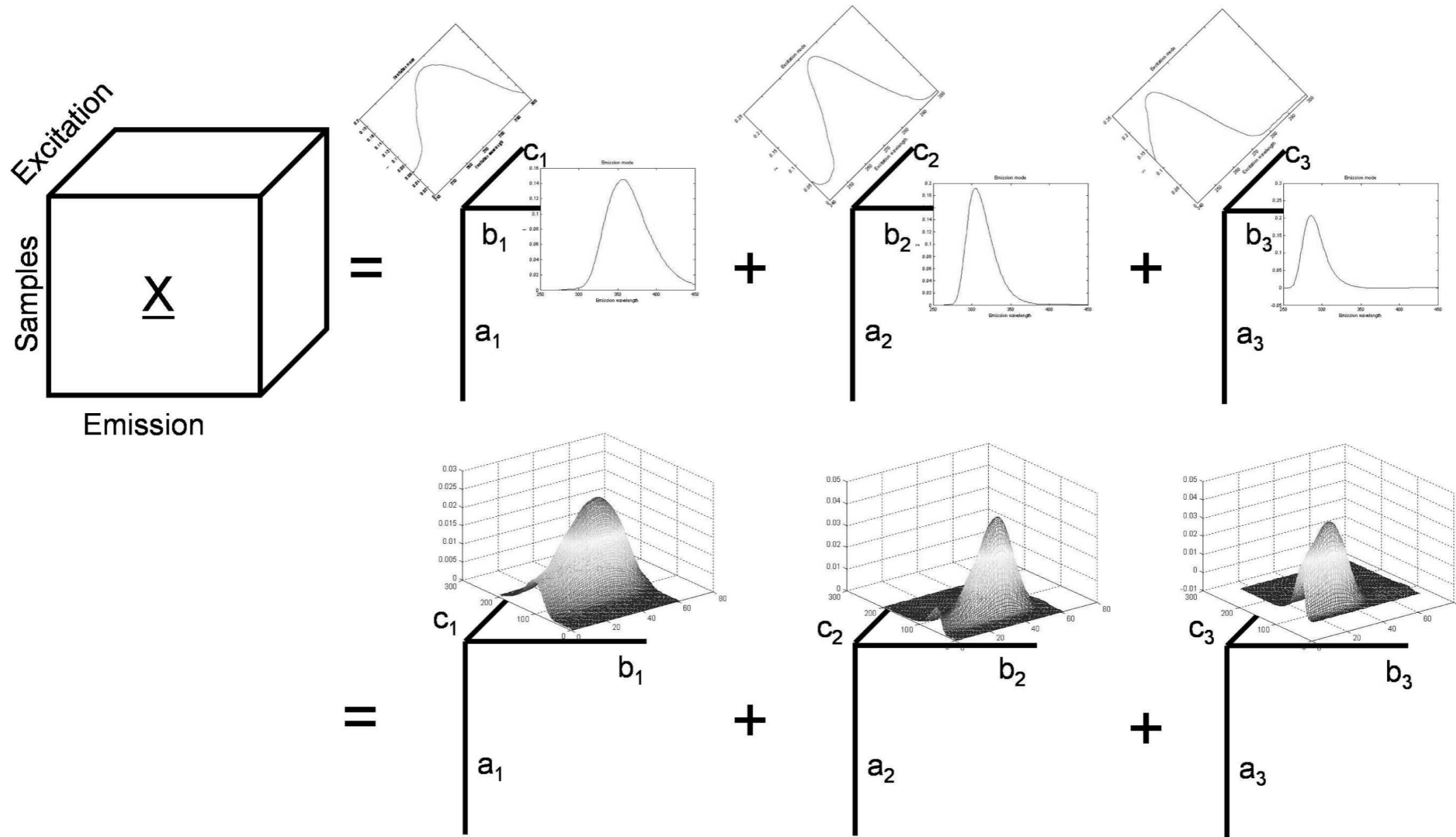| #	Terms	Authors	Journals
1	graphs, problem, algorithms, approximation, algorithm, complexity, optimal, trees, problems, bounds	Kao MY, Peleg D, Motwani R, Cole R, Devroye L, Goldberg LA, Buhrman H, Makino K, He X, Even G	SIAM J Comput, SIAM J Discrete Math
2	method, equations, methods, problems, numerical, multigrid, finite, element, solution, systems	Chan TF, Saad Y, Golub GH, Vassilevski PS, Manteuffel TA, Tuma M, Mccormick SF, Russo G, Puppo G, Benzi M	SIAM J Sci Comput
3	finite, methods, equations, method, element, problems, numerical, error, analysis, equation	Du Q, Shen J, Ainsworth M, Mccormick SF, Wang JP, Manteuffel TA, Schwab C, Ewing RE, Widlund OB, Babuska I	SIAM J Numer Anal
4	control, systems, optimal, problems, stochastic, linear, nonlinear, stabilization, equations, equation	Zhou XY, Kushner HJ, Kunisch K, Ito K, Tang SJ, Raymond JP, Ulbrich S, Borkar VS, Altman E, Budhiraja A	SIAM J Control Optim
5	equations, solutions, problem, equation, boundary, nonlinear, system, stability, model, systems	Wei JC, Chen XF, Frid H, Yang T, Krauskopf B, Hohage T, Seo JK, Krylov NV, Nishihara K, Friedman A	SIAM J Math Anal
6	matrices, matrix, problems, systems, algorithm, linear, method, symmetric, problem, sparse	Higham NJ, Guo CH, Tisseur F, Zhang ZY, Johnson CR, Lin WW, Mehrmann V, Gu M, Zha HY, Golub GH	SIAM J Matrix Anal Appl
7	optimization, problems, programming, methods, method, algorithm, nonlinear, point, semidefinite, convergence	Qi LQ, Tseng P, Roos C, Sun DF, Kunisch K, Ng KF, Jeyakumar V, Qi HD, Fukushima M, Kojima M	SIAM J Optim
8	model, nonlinear, equations, solutions, dynamics, waves, diffusion, system, analysis, phase	Venakides S, Knessl C, Sherratt JA, Ermentrout GB, Scherzer O, Haider MA, Kaper TJ, Ward MJ, Tier C, Warne DP	SIAM J Appl Math
9	equations, flow, model, problem, theory, asymptotic, models, method, analysis, singular	Klar A, Ammari H, Wegener R, Schuss Z, Stevens A, Velazquez JJL, Miura RM, Movchan AB, Fannjiang A, Ryzhik L	SIAM J Appl Math
10	education, introduction, health, analysis, problems, matrix, method, methods, control, programming	Flaherty J, Trefethen N, Schnabel B, [None], Moon G, Shor PW, Babuska IM, Sauter SA, Van Dooren P, Adjei S	SIAM Rev

Chi, E.C. & Kolda, T.G., 2012. On Tensors, Sparsity, and Nonnegative Factorizations. SIAM Journal on Matrix Analysis and Applications, 33(4), pp.1272–1299.

Excitation

Samples

$\underline{X}$

Emission

$=$

c_1 b_1 a_1 Emission mode

$+$

c_2 b_2 a_2 Emission mode

$+$

c_3 b_3 a_3 Emission mode

$=$

c_1 b_1 a_1

$+$

c_2 b_2 a_2

$+$

c_3 b_3 a_3

Acar, E. & Yener, B., 2009. Unsupervised Multiway Data Analysis: A Literature Survey. IEEE Transactions on Knowledge and Data Engineering, 21(1), pp.6–20.
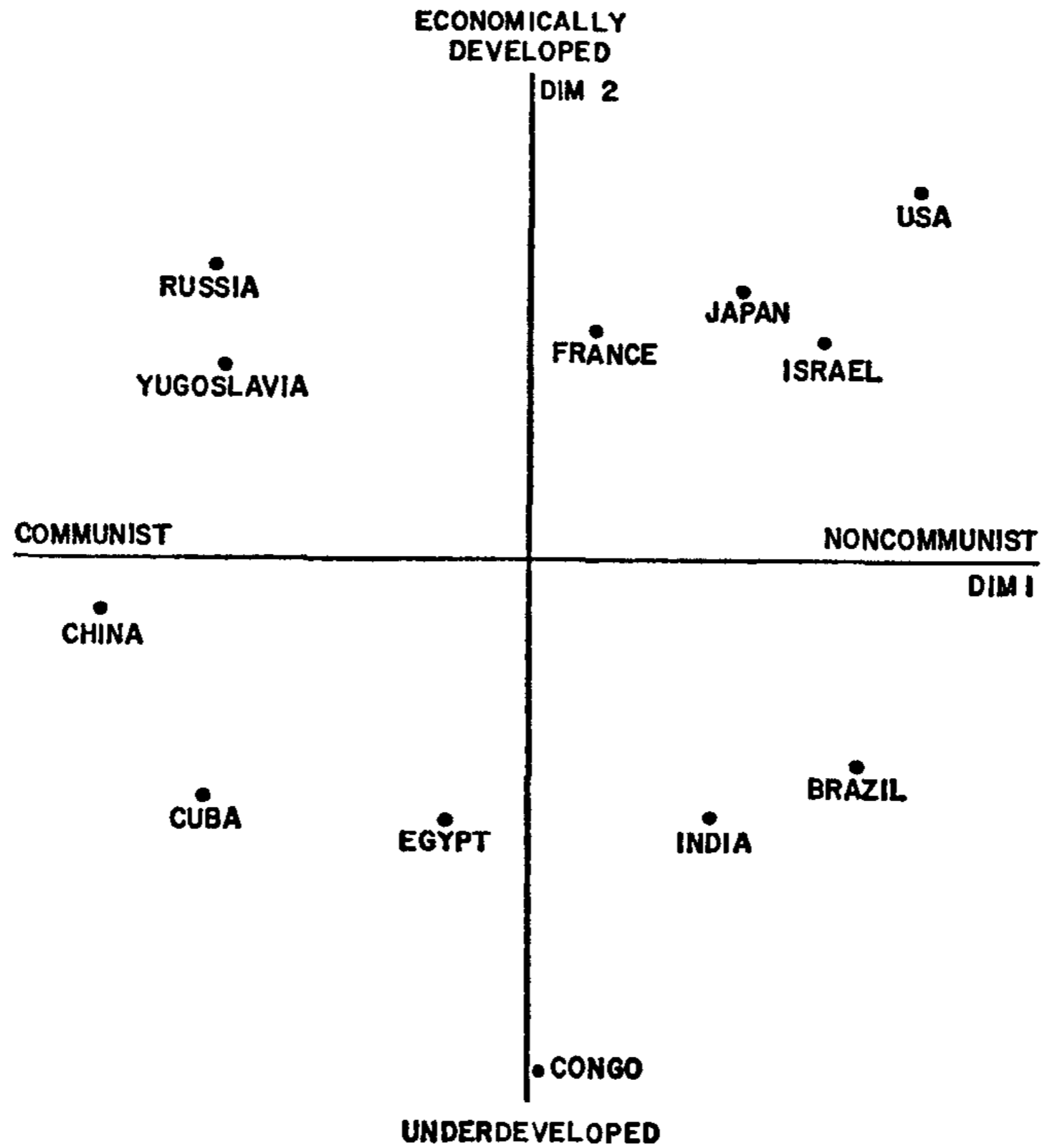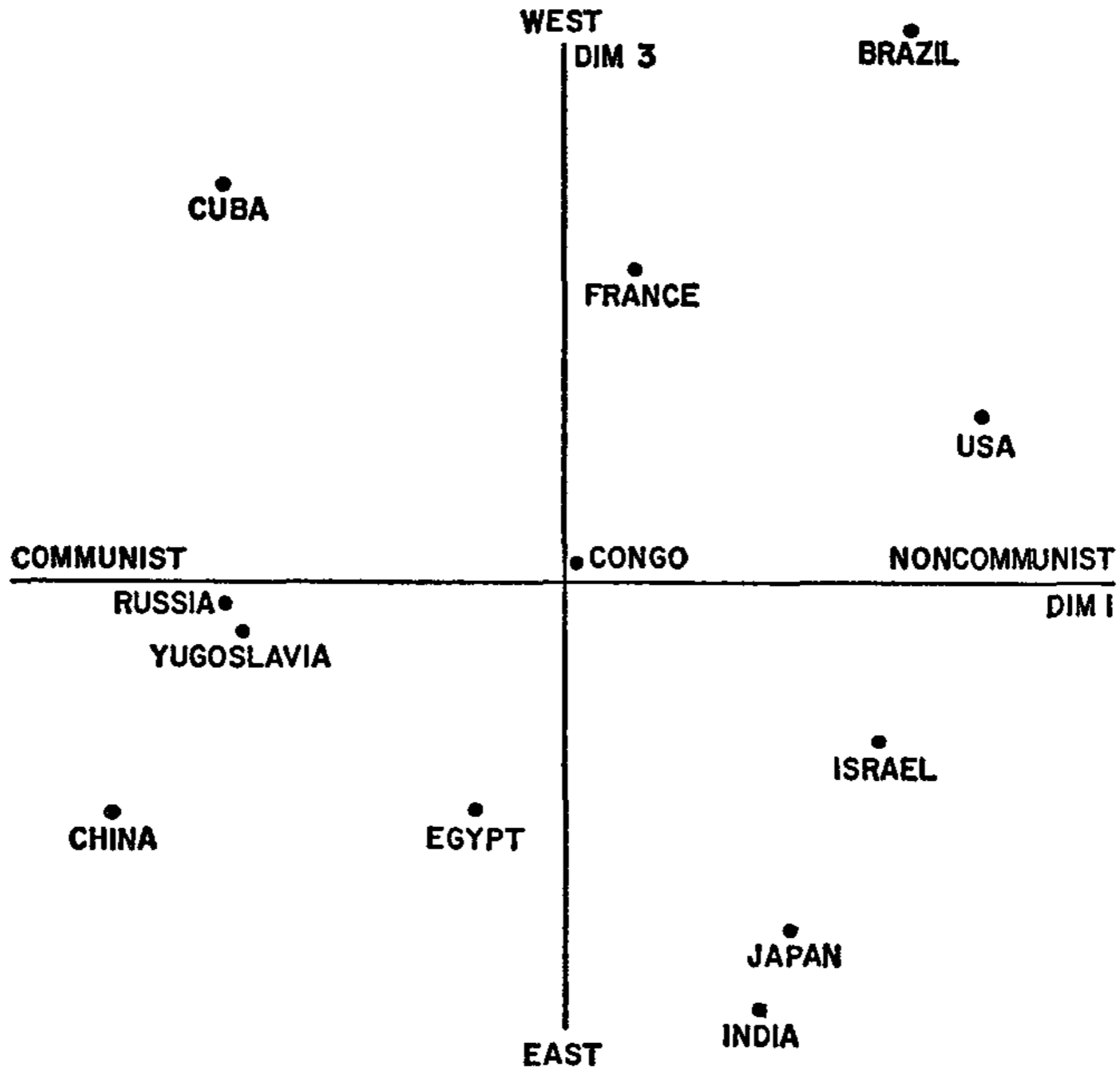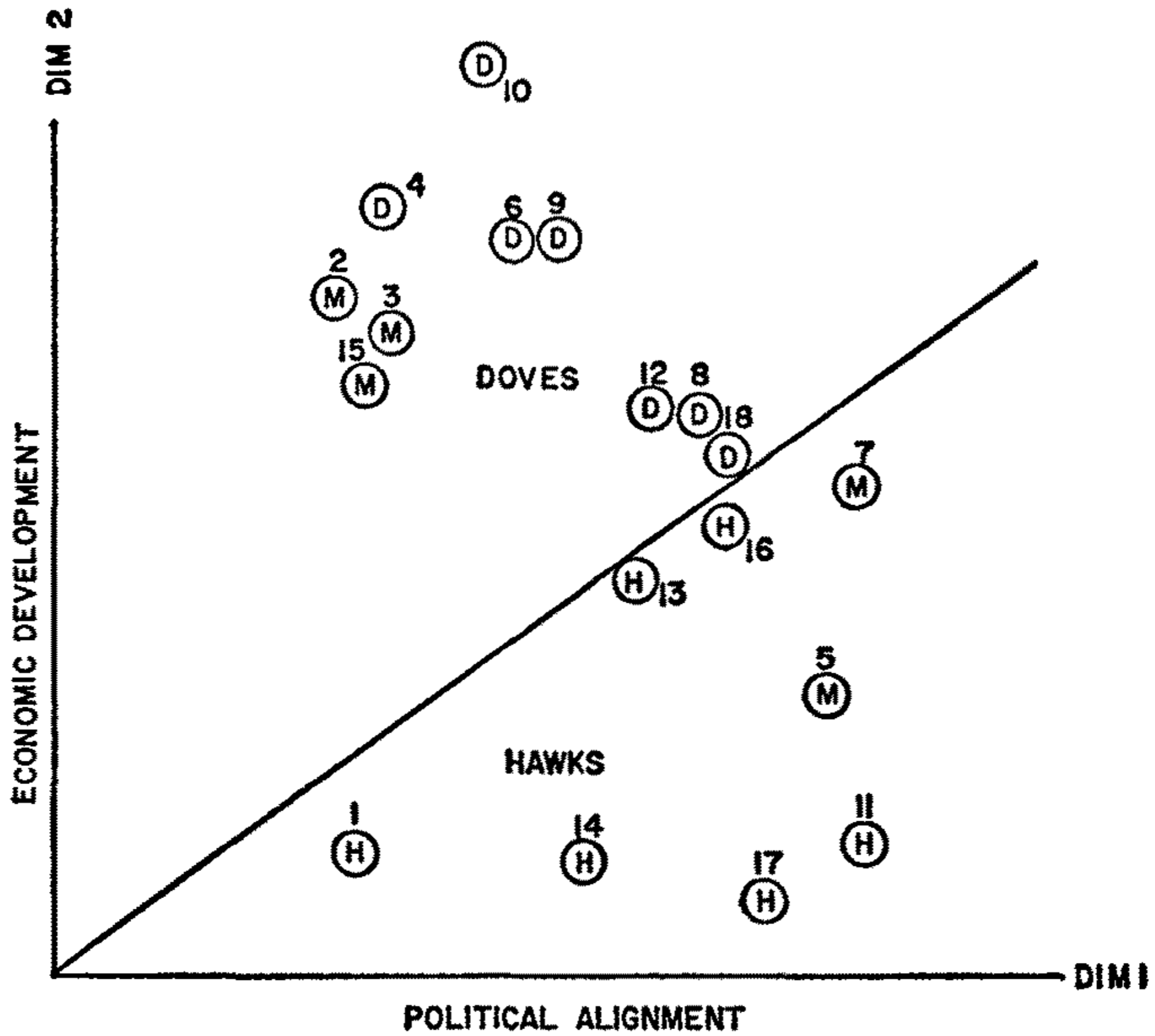
FIGURE 11

Carroll, J.D. & Chang, J.-J., 1970. Analysis of individual differences in multidimensional scaling via an N-way generalization of "Eckart-Young" decomposition. Psychometrika, 35(3), pp. 283–319.

FIGURE 12

Carroll, J.D. & Chang, J.-J., 1970. Analysis of individual differences in multidimensional scaling via an N-way generalization of "Eckart-Young" decomposition. Psychometrika, 35(3), pp. 283–319.

FIGURE 13

Carroll, J.D. & Chang, J.-J., 1970. Analysis of individual differences in multidimensional scaling via an N-way generalization of "Eckart-Young" decomposition. Psychometrika, 35(3), pp. 283–319.
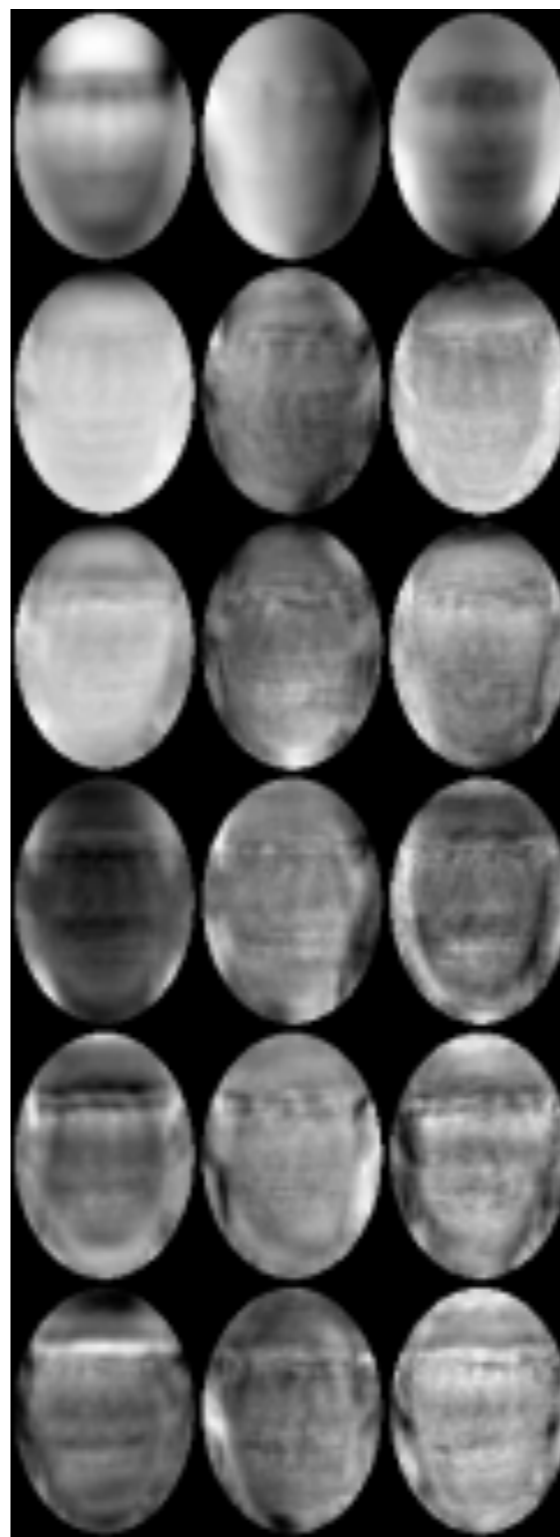
Vasilescu, M.A.O. & Terzopoulos, D., 2002. Multilinear Analysis of Image Ensembles: TensorFaces. In 7th European Conference on Computer Vision. Springer Berlin Heidelberg, pp. 447–460.
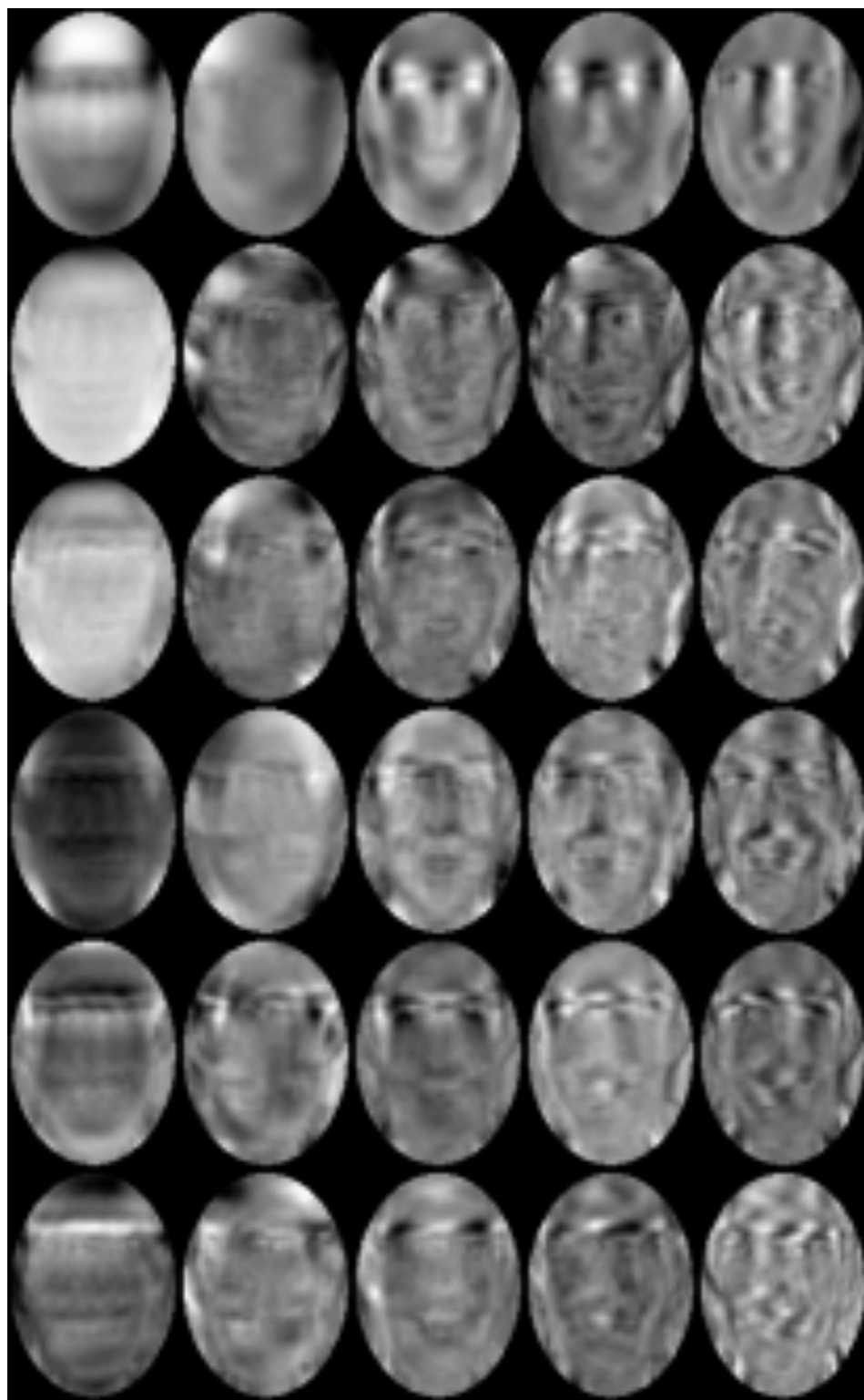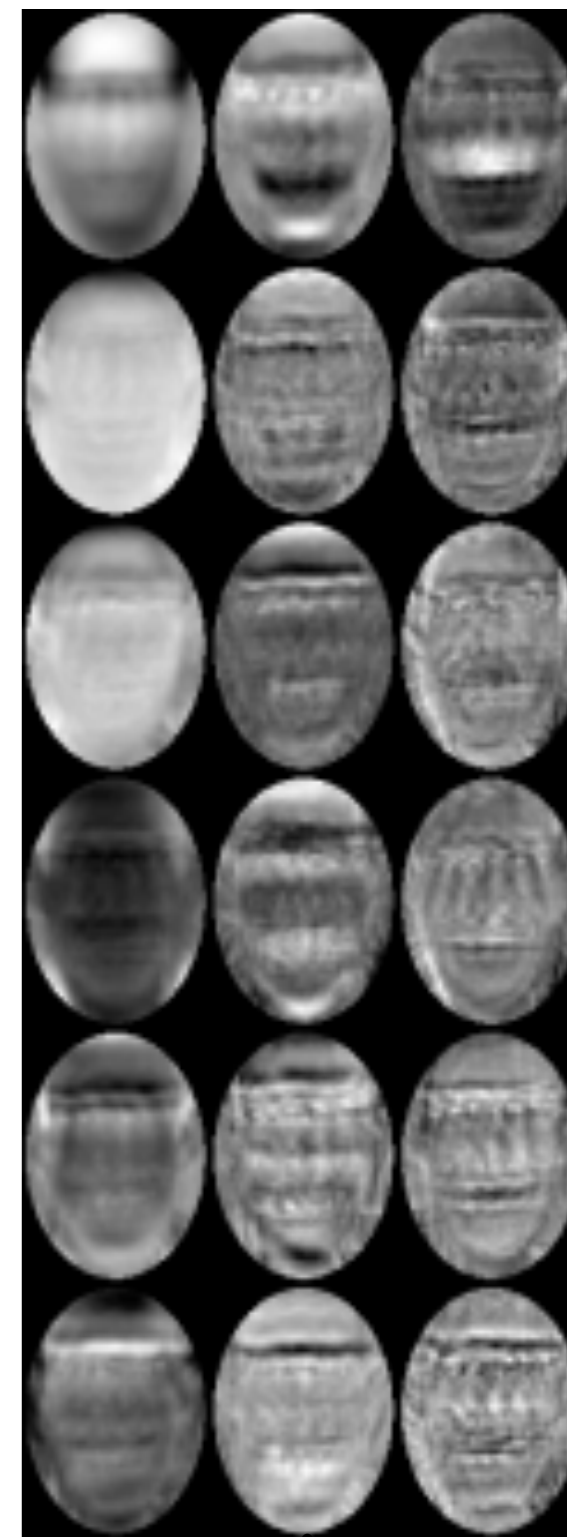
people↓ viewpoints→   people↓ illuminations→   people↓ expressions→

Vasilescu, M.A.O. & Terzopoulos, D., 2002. Multilinear Analysis of Image Ensembles: TensorFaces. In 7th European Conference on Computer Vision. Springer Berlin Heidelberg, pp. 447–460.

illumination basis 1
people↓ expressions→

illumination basis 2
people↓ expressions→

illumination basis 3
people↓ expressions→

Vasilescu, M.A.O. & Terzopoulos, D., 2002. Multilinear Analysis of Image Ensembles: TensorFaces. In 7th European Conference on Computer Vision. Springer Berlin Heidelberg, pp. 447–460.