

Partial least squares-discriminant analysis (PLS-DA) for (HD) data: a review of contemporary practice strategies

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Advanced Classification of Coffee Beans with Fatty Acids Profiling to Block Information Loss. <i>Symmetry</i> , 2018, 10, 529.	1.1	6
2	Effects of data pre-processing methods on classification of ATR-FTIR spectra of pen inks using partial least squares-discriminant analysis (PLS-DA). <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 182, 90-100.	1.8	24
3	Rapid and non-destructive identification of claws using ATR-FTIR spectroscopyâ€”A novel approach in wildlife forensics. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2019, 59, 622-629.	1.3	18
4	A Radiomics Approach to Traumatic Brain Injury Prediction in CT Scans. , 2019, , .		7
5	Multidimensional scaling assisted Fourier-transform infrared spectroscopic analysis of fruit wine samples: introducing a novel analytical approach. <i>Analytical Methods</i> , 2019, 11, 4106-4115.	1.3	2
6	Classification of Grain Maize (<i>Zea mays</i> L.) from Different Geographical Origins with FTIR Spectroscopyâ€”a Suitable Analytical Tool for Feed Authentication?. <i>Food Analytical Methods</i> , 2019, 12, 2172-2184.	1.3	26
7	Cytosolic 10-formyltetrahydrofolate dehydrogenase regulates glycine metabolism in mouse liver. <i>Scientific Reports</i> , 2019, 9, 14937.	1.6	15
8	Gas Chromatography-Mass Spectrometry and Single Nucleotide Polymorphism-Genotype-By-Sequencing Analyses Reveal the Bean Chemical Profiles and Relatedness of <i>Coffea canephora</i> Genotypes in Nigeria. <i>Plants</i> , 2019, 8, 425.	1.6	3
9	Antigen array for serological diagnosis and novel allergen identification in severe equine asthma. <i>Scientific Reports</i> , 2019, 9, 15170.	1.6	15
10	Species Delimitation and Phylogeny of <i>Epithelantha</i> (Cactaceae). <i>Systematic Botany</i> , 2019, 44, 600-615.	0.2	12
11	Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Typings of Edible Oils through Spectral Networking of Triacylglycerol Fingerprints. <i>ACS Omega</i> , 2019, 4, 15734-15741.	1.6	15
12	Near-Infrared Hyperspectral Imaging Combined with Deep Learning to Identify Cotton Seed Varieties. <i>Molecules</i> , 2019, 24, 3268.	1.7	72
13	GM2-GM3 gangliosides ratio is dependent on GRP94 through down-regulation of GM2-AP cofactor in brain metastasis cells. <i>Scientific Reports</i> , 2019, 9, 14241.	1.6	6
14	MicroRNA Profile of HCV Spontaneous Clarified Individuals, Denotes Previous HCV Infection. <i>Journal of Clinical Medicine</i> , 2019, 8, 849.	1.0	11
15	Assessment of the Bulgarian Wastewater Treatment Plantsâ€™ Impact on the Receiving Water Bodies. <i>Molecules</i> , 2019, 24, 2274.	1.7	15
16	Rapid classification of plastic bottles by laser-induced breakdown spectroscopy (LIBS) coupled with partial least squares discrimination analysis based on spectral windows (SW-PLS-DA). <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1665-1671.	1.6	21
17	Discrimination of extra virgin olive oils from five French cultivars: En route to a control chart approach. <i>Food Control</i> , 2019, 106, 106691.	2.8	6
18	Unbiased data analytic strategies to improve biomarker discovery in precision medicine. <i>Drug Discovery Today</i> , 2019, 24, 1735-1748.	3.2	22

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19	Implementing the European Renal Best Practice Guidelines suggests that prediction equations work well to differentiate risk of end-stage renal disease vs. death in older patients with low estimated glomerular filtration rate. <i>Kidney International</i> , 2019, 96, 728-737.	2.6	16
20	Comparing the qualitative performances of handheld NIR and Raman spectrophotometers for the detection of falsified pharmaceutical products. <i>Talanta</i> , 2019, 202, 469-478.	2.9	47
21	Phenotype Profiling for Forensic Purposes: Determining Donor Sex Based on Fourier Transform Infrared Spectroscopy of Urine Traces. <i>Analytical Chemistry</i> , 2019, 91, 6288-6295.	3.2	28
22	Potentiometric multisensor system as a possible simple tool for non-invasive prostate cancer diagnostics through urine analysis. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 42-47.	4.0	21
23	Predictive modelling of colossal ATR-FTIR spectral data using PLS-DA: empirical differences between PLS1-DA and PLS2-DA algorithms. <i>Analyst, The</i> , 2019, 144, 2670-2678.	1.7	22
24	Logistic regression classification model identifying drugs of abuse based on their ATR-FTIR spectra: Case study on LASSO and Ridge regularization methods. , 2019, , .		3
25	Developing infrared spectroscopic detection for stratifying brain tumour patients: glioblastoma multiforme vs. lymphoma. <i>Analyst, The</i> , 2019, 144, 6736-6750.	1.7	37
26	Analysis of Methanol Gasoline by ATR-FT-IR Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5336.	1.3	7
27	Traceability the provenience of cultivated <i>Paris polyphylla</i> Smith var. <i>yunnanensis</i> using ATR-FTIR spectroscopy combined with chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 212, 132-145.	2.0	16
28	Targeted Analysis of Serum Proteins Encoded at Known Inflammatory Bowel Disease Risk Loci. <i>Inflammatory Bowel Diseases</i> , 2019, 25, 306-316.	0.9	15
29	Statistical comparison of decision rules in PLS2-DA prediction model for classification of blue gel pen inks according to pen brand and pen model. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019, 184, 94-101.	1.8	4
30	Multiblock chemometrics for the discrimination of three extra virgin olive oil varieties. <i>Food Chemistry</i> , 2020, 309, 125588.	4.2	11
31	Portable exhaled breath condensate metabolomics for daily monitoring of adolescent asthma. <i>Journal of Breath Research</i> , 2020, 14, 026001.	1.5	13
32	Online Application of a Hyperspectral Imaging System for the Sorting of Adulterated Almonds. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6569.	1.3	22
33	Using data complexity measures and an evolutionary cultural algorithm for gene selection in microarray data. <i>Soft Computing Letters</i> , 2021, 3, 100007.	3.5	4
34	Rapid Analytical Method to Characterize the Freshness of Olive Oils Using Fluorescence Spectroscopy and Chemometric Algorithms. <i>Journal of Analytical Methods in Chemistry</i> , 2020, 2020, 1-9.	0.7	24
35	Lacustrine versus Marine Oils: Fast and Accurate Molecular Discrimination via Electrospray Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Multivariate Statistics. <i>Energy & Fuels</i> , 2020, 34, 9222-9230.	2.5	4
36	The potential of in-situ hyperspectral remote sensing for differentiating 12 banana genotypes grown in Uganda. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 167, 85-103.	4.9	20

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37	Complex Chemical Data Classification and Discrimination Using Locality Preserving Partial Least Squares Discriminant Analysis. <i>ACS Omega</i> , 2020, 5, 26601-26610.	1.6	19
38	Predictive modeling of complex ABO glycan phenotypes by lectin microarrays. <i>Blood Advances</i> , 2020, 4, 3960-3970.	2.5	2
39	Extracellular Vesicle Identification Using Label-Free Surface-Enhanced Raman Spectroscopy: Detection and Signal Analysis Strategies. <i>Molecules</i> , 2020, 25, 5209.	1.7	21
40	Synergy Effect of Combined Near and Mid-Infrared Fibre Spectroscopy for Diagnostics of Abdominal Cancer. <i>Sensors</i> , 2020, 20, 6706.	2.1	5
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44	Capillary electrophoretic profiling of inâ€bone tryptic digests of proteins as a potential tool for the detection of inflammatory states in oral surgery. <i>Journal of Separation Science</i> , 2020, 43, 3949-3959.	1.3	12
46	Metabolomic Biomarkers for Detection, Prognosis and Identifying Recurrence in Endometrial Cancer. <i>Metabolites</i> , 2020, 10, 314.	1.3	32
47	Leaf hyperspectral reflectance as a potential tool to detect diseases associated with vineyard decline. <i>Tropical Plant Pathology</i> , 2020, 45, 522-533.	0.8	20
48	Food Phenotyping: Recording and Processing of Non-Targeted Liquid Chromatography Mass Spectrometry Data for Verifying Food Authenticity. <i>Molecules</i> , 2020, 25, 3972.	1.7	15
49	Digitization of Broccoli Freshness Integrating External Color and Mass Loss. <i>Foods</i> , 2020, 9, 1305.	1.9	5
50	Qualitative and Quantitative Analyses of Potassium Sorbate in Milk Powder using Terahertz Spectra. <i>Journal of Applied Spectroscopy</i> , 2020, 87, 764-772.	0.3	8
51	Performance assessment of Swedish sewer pipe networks using pipe blockage and other associated performance indicators. <i>H2Open Journal</i> , 2020, 3, 46-57.	0.8	8
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55	Correlation and association analyses in microbiome study integrating multiomics in health and disease. <i>Progress in Molecular Biology and Translational Science</i> , 2020, 171, 309-491.	0.9	103

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56	Control chart and data fusion for varietal origin discrimination: Application to olive oil. <i>Talanta</i> , 2020, 217, 121115.	2.9	16
57	Respirator usage protects brain white matter from welding fume exposure: A pilot magnetic resonance imaging study of welders. <i>NeuroToxicology</i> , 2020, 78, 202-208.	1.4	1
58	¹ H NMR-based metabolomics for the discrimination of celery (<i>Apium graveolens</i> L. var. dulce) from different geographical origins. <i>Food Chemistry</i> , 2020, 332, 127424.	4.2	22
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66	Non-destructive determination of chemical and microbial spoilage indicators of beef for freshness evaluation using front-face synchronous fluorescence spectroscopy. <i>Food Chemistry</i> , 2020, 321, 126628.	4.2	31
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70	Simultaneous automated image analysis and Raman spectroscopy of powders at an individual particle level. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 193, 113744.	1.4	4
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72	Rapid analysis of Baijiu volatile compounds fingerprint for their aroma and regional origin authenticity assessment. <i>Food Chemistry</i> , 2021, 337, 128002.	4.2	53
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75	Qualitative pattern recognition in chemistry: Theoretical background and practical guidelines. <i>Microchemical Journal</i> , 2021, 162, 105725.	2.3	40
76	Identification of <i>Aspergillus</i> species in human blood plasma by infrared spectroscopy and machine learning. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 248, 119259.	2.0	7
77	Identification and evaluation of <i>Polygonatum kingianum</i> with different growth ages based on data fusion strategy. <i>Microchemical Journal</i> , 2021, 160, 105662.	2.3	12
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79	Chemometric discrimination of Turkish olive oils by variety and region using PCA and comparison of classification viability of SIMCA and PLS-DA. <i>European Food Research and Technology</i> , 2021, 247, 157-168.	1.6	4
80	Subclinical Heart Dysfunction in Relation to Metabolic and Inflammatory Markers: A Community-Based Study. <i>American Journal of Hypertension</i> , 2021, 34, 46-55.	1.0	6
81	A Systematic Review on Monitoring and Advanced Control Strategies in Smart Agriculture. <i>IEEE Access</i> , 2021, 9, 32517-32548.	2.6	71
82	Fast Screening and Primary Diagnosis of COVID-19 by ATR-FT-IR. <i>Analytical Chemistry</i> , 2021, 93, 2191-2199.	3.2	51
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91	Methodology and applications of elemental mapping by laser induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , 2021, 1147, 72-98.	2.6	92

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108	Proteomic profiling for detection of earlyâ€“stage heart failure in the community. <i>ESC Heart Failure</i> , 2021, 8, 2928-2939.	1.4	8
110	Origin, Evolution and Stability of Overlapping Genes in Viruses: A Systematic Review. <i>Genes</i> , 2021, 12, 809.	1.0	20

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112	Biospectroscopy and chemometrics as an analytical tool for comparing the antibacterial mechanism of silver nanoparticles with popular antibiotics against <i>Escherichia coli</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 253, 119558.	2.0	9
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121	Seasonally related metabolic changes and energy allocation associated with growth and reproductive phases in the liver of male goldfish (<i>Carassius auratus</i>). <i>Journal of Proteomics</i> , 2021, 241, 104237.	1.2	13
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124	SERS-based viral load quantification of hepatitis B virus from PCR products. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 255, 119722.	2.0	17
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127	Hyperspectral imaging as an emerging tool to analyze microplastics: A systematic review and recommendations for future development. <i>Microplastics and Nanoplastics</i> , 2021, 1, .	4.1	42
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130	Addressing Delicate and Variable Cancer Morphology in Spectral Histopathology Using Canine Visceral Hemangiosarcoma. <i>Analytical Chemistry</i> , 2021, 93, 12187-12194.	3.2	4
131	Raman spectroscopy-based diagnostics of water deficit and salinity stresses in two accessions of peanut. <i>Plant Direct</i> , 2021, 5, e342.	0.8	9
132	Identification of secondary metabolites in mycoparasites <i>Fusarium</i> strains and antifungal activity of fusaric acid against <i>Plasmopara viticola</i> . <i>Archives of Phytopathology and Plant Protection</i> , 2022, 55, 1283-1297.	0.6	1
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134	Mass spectrometry-based metabolomics in microbiome investigations. <i>Nature Reviews Microbiology</i> , 2022, 20, 143-160.	13.6	148
135	Enhancement of nitrite/ammonia removal from saline recirculating aquaculture wastewater system using moving bed bioreactor. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105947.	3.3	24
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140	Rapid quantitative characterization of tea seedlings under lead-containing aerosol particles stress using Vis-NIR spectra. <i>Science of the Total Environment</i> , 2022, 802, 149824.	3.9	18
141	Identification of myocardial fibrosis by ATR-FTIR spectroscopy combined with chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 264, 120238.	2.0	8
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