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| |  |  | | --- | --- | | **Thoracic Surgery Data Data Set**  *Download*: [Data Folder](https://archive.ics.uci.edu/ml/machine-learning-databases/00277/), [Data Set Description](https://archive.ics.uci.edu/ml/datasets/Thoracic+Surgery+Data)  **Abstract**: The data is dedicated to classification problem related to the post-operative life expectancy in the lung cancer patients: class 1 - death within one year after surgery, class 2 - survival. |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Data Set Characteristics:** | Multivariate | **Number of Instances:** | 470 | **Area:** | Life | | **Attribute Characteristics:** | Integer, Real | **Number of Attributes:** | 17 | **Date Donated** | 2013-11-13 | | **Associated Tasks:** | Classification | **Missing Values?** | N/A | **Number of Web Hits:** | 75512 |   **Source:**  Creators: Marek Lubicz (1), Konrad Pawelczyk (2), Adam Rzechonek (2), Jerzy Kolodziej (2)  -- (1) Wroclaw University of Technology, wybrzeze Wyspianskiego 27, 50-370, Wroclaw, Poland  -- (2) Wroclaw Medical University, wybrzeze L. Pasteura 1, 50-367 Wroclaw, Poland   Donor: Maciej Zieba (maciej.zieba **'@'** pwr.wroc.pl), Jakub M. Tomczak (jakub.tomczak **'@'** pwr.wroc.pl), (+48) 71 320 44 53   Date: November, 2013  **Data Set Information:**  The data was collected retrospectively at Wroclaw Thoracic Surgery Centre for patients who underwent major lung resections for primary lung cancer in the years 2007â€“2011. The Centre is associated with the Department of Thoracic Surgery of the Medical University of Wroclaw and Lower-Silesian Centre for Pulmonary Diseases, Poland, while the research database constitutes a part of the National Lung Cancer Registry, administered by the Institute of Tuberculosis and Pulmonary Diseases in Warsaw, Poland.  **Attribute Information:**  1. DGN: Diagnosis - specific combination of ICD-10 codes for primary and secondary as well multiple tumours if any (DGN3,DGN2,DGN4,DGN6,DGN5,DGN8,DGN1)  2. PRE4: Forced vital capacity - FVC (numeric)  3. PRE5: Volume that has been exhaled at the end of the first second of forced expiration - FEV1 (numeric)  4. PRE6: Performance status - Zubrod scale (PRZ2,PRZ1,PRZ0)  5. PRE7: Pain before surgery (T,F)  6. PRE8: Haemoptysis before surgery (T,F)  7. PRE9: Dyspnoea before surgery (T,F)  8. PRE10: Cough before surgery (T,F)  9. PRE11: Weakness before surgery (T,F)  10. PRE14: T in clinical TNM - size of the original tumour, from OC11 (smallest) to OC14 (largest) (OC11,OC14,OC12,OC13)  11. PRE17: Type 2 DM - diabetes mellitus (T,F)  12. PRE19: MI up to 6 months (T,F)  13. PRE25: PAD - peripheral arterial diseases (T,F)  14. PRE30: Smoking (T,F)  15. PRE32: Asthma (T,F)  16. AGE: Age at surgery (numeric)  17. Risk1Y: 1 year survival period - (T)rue value if died (T,F)   Class Distribution: the class value (Risk1Y) is binary valued.  Risk1Y Value: Number of Instances:  T 70  N 400   Summary Statistics:   Binary Attributes Distribution:  PRE7 Value: Number of Instances:  T 31  N 439  PRE8 Value: Number of Instances:  T 68  N 402  PRE9 Value: Number of Instances:  T 31  N 439  PRE10 Value: Number of Instances:  T 323  N 147  PRE11 Value: Number of Instances:  T 78  N 392  PRE17 Value: Number of Instances:  T 35  N 435  PRE19 Value: Number of Instances:  T 2  N 468  PRE25 Value: Number of Instances:  T 8  N 462  PRE30 Value: Number of Instances:  T 386  N 84  PRE32 Value: Number of Instances:  T 368  N 2   Nominal Attributes Distribution:  DGN Value: Number of Instances:  DGN3 349  DGN2 52  DGN4 47  DGN6 4  DGN5 15  DGN8 2  DGN1 1  PRE6 Value: Number of Instances:  PRZ2 27  PRZ1 313  PRZ0 130  PRE14 Value: Number of Instances:  OC11 177  OC14 17  OC12 257  OC13 19   Numeric Attributes Statistics:  Min Max Mean SD  PRE4: 1.4 6.3 3.3 0.9  PRE5: 0.96 86.3 4.6 11.8  AGE: 21 87 52.5 8.7  **Relevant Papers:**  ZiÄ™ba, M., Tomczak, J. M., Lubicz, M., & ÅšwiÄ…tek, J. (2013). Boosted SVM for extracting rules from imbalanced data in application to prediction of the post-operative life expectancy in the lung cancer patients. Applied Soft Computing. [[Web Link]](http://dx.doi.org/10.1016/j.bbr.2011.03.031)  - Results:  -- Boosted SVM for for imbalanced data gained the Gmean value equal 0.657,  -- Decision rules induced using Boosted SVM as an oracle gained the Gmean value equal 0.648.    **Citation Request:**  ZiÄ™ba, M., Tomczak, J. M., Lubicz, M., & ÅšwiÄ…tek, J. (2013). Boosted SVM for extracting rules from imbalanced data in application to prediction of the post-operative life expectancy in the lung cancer patients. Applied Soft Computing. [[Web Link]](http://dx.doi.org/10.1016/j.bbr.2011.03.031)   BibTeX:   @article{zieba2013boosted,  title={Boosted SVM for extracting rules from imbalanced data in application to prediction of the post-operative life expectancy in the lung cancer patients},  author={Zi{k{e}}ba, Maciej and Tomczak, Jakub M and Lubicz, Marek and {'S}wi{k{a}}tek, Jerzy},  journal={Applied Soft Computing},  year={2013},  publisher={Elsevier},  doi={[[Web Link]](http://dx.doi.org/10.1016/j.bbr.2011.03.031)}  } |

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**Breast Cancer Coimbra Data Set**

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| |  |  | | --- | --- | | **Breast Cancer Coimbra Data Set**  *Download*: [Data Folder](https://archive.ics.uci.edu/ml/machine-learning-databases/00451/), [Data Set Description](https://archive.ics.uci.edu/ml/datasets/Breast+Cancer+Coimbra)  **Abstract**: Clinical features were observed or measured for 64 patients with breast cancer and 52 healthy controls. |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Data Set Characteristics:** | Multivariate | **Number of Instances:** | 116 | **Area:** | Life | | **Attribute Characteristics:** | Integer | **Number of Attributes:** | 10 | **Date Donated** | 2018-03-06 | | **Associated Tasks:** | Classification | **Missing Values?** | N/A | **Number of Web Hits:** | 30450 |   **Source:**  Miguel Patrício(miguelpatricio **'@'** gmail.com), José Pereira (jafcpereira **'@'** gmail.com), Joana Crisóstomo (joanacrisostomo **'@'** hotmail.com), Paulo Matafome (paulomatafome **'@'** gmail.com), Raquel Seiça (rmfseica **'@'** gmail.com), Francisco Caramelo (fcaramelo **'@'** fmed.uc.pt), all from the Faculty of Medicine of the University of Coimbra and also Manuel Gomes (manuelmgomes **'@'** gmail.com) from the University Hospital Centre of Coimbra  **Data Set Information:**  There are 10 predictors, all quantitative, and a binary dependent variable, indicating the presence or absence of breast cancer.  The predictors are anthropometric data and parameters which can be gathered in routine blood analysis.  Prediction models based on these predictors, if accurate, can potentially be used as a biomarker of breast cancer.  **Attribute Information:**  Quantitative Attributes:  Age (years)  BMI (kg/m2)  Glucose (mg/dL)  Insulin (µU/mL)  HOMA  Leptin (ng/mL)  Adiponectin (µg/mL)  Resistin (ng/mL)  MCP-1(pg/dL)   Labels:  1=Healthy controls  2=Patients  **Relevant Papers:**  [[Web Link]](https://link.springer.com/article/10.1007/s12020-016-0893-x)  [[Web Link]](https://bmccancer.biomedcentral.com/articles/10.1186/s12885-017-3877-1)    **Citation Request:**  This dataset is publicly available for research. The details are described in [Patricio, 2018] - [[Web Link]](https://bmccancer.biomedcentral.com/articles/10.1186/s12885-017-3877-1).  Please include this citation if you plan to use this database:  [Patricio, 2018] Patrício, M., Pereira, J., Crisóstomo, J., Matafome, P., Gomes, M., Seiça, R., & Caramelo, F. (2018). Using Resistin, glucose, age and BMI to predict the presence of breast cancer. BMC Cancer, 18(1). [[Web Link]](doi:10.1186/s12885-017-3877-1) |

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| |  |  | | --- | --- | | **seeds Data Set**  *Download*: [Data Folder](https://archive.ics.uci.edu/ml/machine-learning-databases/00236/), [Data Set Description](https://archive.ics.uci.edu/ml/datasets/seeds)  **Abstract**: Measurements of geometrical properties of kernels belonging to three different varieties of wheat. A soft X-ray technique and GRAINS package were used to construct all seven, real-valued attributes. |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Data Set Characteristics:** | Multivariate | **Number of Instances:** | 210 | **Area:** | Life | | **Attribute Characteristics:** | Real | **Number of Attributes:** | 7 | **Date Donated** | 2012-09-29 | | **Associated Tasks:** | Classification, Clustering | **Missing Values?** | N/A | **Number of Web Hits:** | 221573 |   **Source:**  MaÅ‚gorzata Charytanowicz, Jerzy Niewczas  Institute of Mathematics and Computer Science,  The John Paul II Catholic University of Lublin, KonstantynÃ³w 1 H,  PL 20-708 Lublin, Poland  e-mail: {mchmat,jniewczas}@kul.lublin.pl   Piotr Kulczycki, Piotr A. Kowalski, Szymon Lukasik, Slawomir Zak  Department of Automatic Control and Information Technology,  Cracow University of Technology, Warszawska 24, PL 31-155 Cracow, Poland  and  Systems Research Institute, Polish Academy of Sciences, Newelska 6,  PL 01-447 Warsaw, Poland  e-mail: {kulczycki,pakowal,slukasik,slzak}@ibspan.waw.pl  **Data Set Information:**  The examined group comprised kernels belonging to three different varieties of wheat: Kama, Rosa and Canadian, 70 elements each, randomly selected for  the experiment. High quality visualization of the internal kernel structure was detected using a soft X-ray technique. It is non-destructive and considerably cheaper than other more sophisticated imaging techniques like scanning microscopy or laser technology. The images were recorded on 13x18 cm X-ray KODAK plates. Studies were conducted using combine harvested wheat grain originating from experimental fields, explored at the Institute of Agrophysics of the Polish Academy of Sciences in Lublin.   The data set can be used for the tasks of classification and cluster analysis.  **Attribute Information:**  To construct the data, seven geometric parameters of wheat kernels were measured:  1. area A,  2. perimeter P,  3. compactness C = 4\*pi\*A/P^2,  4. length of kernel,  5. width of kernel,  6. asymmetry coefficient  7. length of kernel groove.  All of these parameters were real-valued continuous.  **Relevant Papers:**  M. Charytanowicz, J. Niewczas, P. Kulczycki, P.A. Kowalski, S. Lukasik, S. Zak, 'A Complete Gradient Clustering Algorithm for Features Analysis of X-ray Images', in: Information Technologies in Biomedicine, Ewa Pietka, Jacek Kawa (eds.), Springer-Verlag, Berlin-Heidelberg, 2010, pp. 15-24.    **Citation Request:**  Contributors gratefully acknowledge support of their work by the Institute of Agrophysics of the Polish Academy of Sciences in Lublin. |

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| |  |  | | --- | --- | | **Cryotherapy Dataset Data Set**  *Download*: [Data Folder](http://archive.ics.uci.edu/ml/machine-learning-databases/00429/), [Data Set Description](http://archive.ics.uci.edu/ml/datasets/Cryotherapy+Dataset+)  **Abstract**: This dataset contains information about wart treatment results of 90 patients using cryotherapy. |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Data Set Characteristics:** | Univariate | **Number of Instances:** | 90 | **Area:** | Life | | **Attribute Characteristics:** | Integer, Real | **Number of Attributes:** | 7 | **Date Donated** | 2018-01-04 | | **Associated Tasks:** | Classification | **Missing Values?** | N/A | **Number of Web Hits:** | 24156 |   **Source:**  Name: Fahime Khozeimeh, MD  email: fahime.khozeime **'@'** yahoo.com  institution: Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran.   Name: Pouran Layegh, Professor of Dermatology  email: layeghpo **'@'** mums.ac.ir  institution: Mashhad University of Medical Sciences, Mashhad, Iran  website: <http://research.mums.ac.ir/webdocument/load.action?webdocument_code=8001&masterCode=8000703>   Name:Roohallah Alizadehsani, PhD student  email: alizadeh\_roohallah '@' yahoo.com  institution: Institute for Intelligent Systems Research and Innovation (IISRI), Deakin University, Victoria 3217, Australia.  website: <http://ce.sharif.ir/~ralizadeh/>   Name: Mohamad Roshanzamir, PhD candidate  email: mohamad.roshanzamir '@' ec.iut.ac.ir  institution: Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran.  **Data Set Information:**  Provide all relevant information about your data set.  **Attribute Information:**  Provide information about each attribute in your data set.  **Relevant Papers:**  1. F. Khozeimeh, R. Alizadehsani, M. Roshanzamir, A. Khosravi, P. Layegh, and S. Nahavandi, 'An expert system for selecting wart treatment method,' Computers in Biology and Medicine, vol. 81, pp. 167-175, 2/1/ 2017.  2. F. Khozeimeh, F. Jabbari Azad, Y. Mahboubi Oskouei, M. Jafari, S. Tehranian, R. Alizadehsani, et al., 'Intralesional immunotherapy compared to cryotherapy in the treatment of warts,' International Journal of Dermatology, 2017, DOI: 10.1111/ijd.13535  3. Intralesional immunotherapy with Candida antigen compared to cryotherapy in the treatment of warts. M Teimoorian, F Khozeimeh, P Layegh, R Alizadehsani  American Academy of Dermatology, 2016  **Citation Request:**  1. F. Khozeimeh, R. Alizadehsani, M. Roshanzamir, A. Khosravi, P. Layegh, and S. Nahavandi, 'An expert system for selecting wart treatment method,' Computers in Biology and Medicine, vol. 81, pp. 167-175, 2/1/ 2017.  2. F. Khozeimeh, F. Jabbari Azad, Y. Mahboubi Oskouei, M. Jafari, S. Tehranian, R. Alizadehsani, et al., 'Intralesional immunotherapy compared to cryotherapy in the treatment of warts,' International Journal of Dermatology, 2017, DOI: 10.1111/ijd.          [Center for Machine Learning and Intelligent Systems](http://cml.ics.uci.edu/) [About](http://archive.ics.uci.edu/ml/about.html)  [Citation Policy](http://archive.ics.uci.edu/ml/citation_policy.html)  [Donate a Data Set](http://archive.ics.uci.edu/ml/donation_policy.html)  [Contact](http://archive.ics.uci.edu/ml/contact.html)    Repository Web             [**View ALL Data Sets**](http://archive.ics.uci.edu/ml/datasets.html)  **Cryotherapy Dataset Data Set**  *Download*: [Data Folder](http://archive.ics.uci.edu/ml/machine-learning-databases/00429/), [Data Set Description](http://archive.ics.uci.edu/ml/datasets/Cryotherapy+Dataset+)  **Abstract**: This dataset contains information about wart treatment results of 90 patients using cryotherapy.  **Data Set Characteristics:**  Univariate  **Number of Instances:**  90  **Area:**  Life  **Attribute Characteristics:**  Integer, Real  **Number of Attributes:**  7  **Date Donated**  2018-01-04  **Associated Tasks:**  Classification  **Missing Values?**  N/A  **Number of Web Hits:**  24156  **Source:**  Name: Fahime Khozeimeh, MD  email: fahime.khozeime **'@'** yahoo.com  institution: Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran.   Name: Pouran Layegh, Professor of Dermatology  email: layeghpo **'@'** mums.ac.ir  institution: Mashhad University of Medical Sciences, Mashhad, Iran  website: <http://research.mums.ac.ir/webdocument/load.action?webdocument_code=8001&masterCode=8000703>   Name:Roohallah Alizadehsani, PhD student  email: alizadeh\_roohallah '@' yahoo.com  institution: Institute for Intelligent Systems Research and Innovation (IISRI), Deakin University, Victoria 3217, Australia.  website: <http://ce.sharif.ir/~ralizadeh/>   Name: Mohamad Roshanzamir, PhD candidate  email: mohamad.roshanzamir '@' ec.iut.ac.ir  institution: Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran.  **Data Set Information:**  Provide all relevant information about your data set.  **Attribute Information:**  Provide information about each attribute in your data set.  **Relevant Papers:**  1. F. Khozeimeh, R. Alizadehsani, M. Roshanzamir, A. Khosravi, P. Layegh, and S. Nahavandi, 'An expert system for selecting wart treatment method,' Computers in Biology and Medicine, vol. 81, pp. 167-175, 2/1/ 2017.  2. F. Khozeimeh, F. Jabbari Azad, Y. Mahboubi Oskouei, M. Jafari, S. Tehranian, R. Alizadehsani, et al., 'Intralesional immunotherapy compared to cryotherapy in the treatment of warts,' International Journal of Dermatology, 2017, DOI: 10.1111/ijd.13535  3. Intralesional immunotherapy with Candida antigen compared to cryotherapy in the treatment of warts. M Teimoorian, F Khozeimeh, P Layegh, R Alizadehsani  American Academy of Dermatology, 2016  **Citation Request:**  1. F. Khozeimeh, R. Alizadehsani, M. Roshanzamir, A. Khosravi, P. Layegh, and S. Nahavandi, 'An expert system for selecting wart treatment method,' Computers in Biology and Medicine, vol. 81, pp. 167-175, 2/1/ 2017.  2. F. Khozeimeh, F. Jabbari Azad, Y. Mahboubi Oskouei, M. Jafari, S. Tehranian, R. 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