



UCR Time Series Classification Archive

Please reference as:

Yanping Chen, Eamonn Keogh, Bing Hu, Nurjahan Begum, Anthony Bagnall, Abdullah Mueen and Gustavo Batista (2015). The UCR Time Series Classification Archive. URL www.cs.ucr.edu/~eamonn/time_series_data/

Welcome!

Dear Colleague

If you are reading this, you are interested in using the UCR Time Series Classification Archive. This archive is a *superset* of, and completely replaces [5]. Both [5], and this current Archive were born out of my frustration with papers reporting error rates on a single dataset, and claiming (or implicitly suggesting) that the results would generalize [6]. However, while I think the availability of previous versions of the UCR archive has mitigated this problem to a great extent, it may have opened up other problems.

- 1) Several researchers have published papers on showing “*we win some, we lose some*” on the UCR Archive. However, there are many trivial ways to get “*win some, lose some*” type results on these datasets (For example, just smoothing the data, or generalizing from 1NN to KNN etc.). Using the Archive can therefore *apparently* add credence to poor ideas (very sophisticated tests are required to show *small* but *true* improvement effects [3]). In addition Gustavo Batista has pointed out that “*win some, lose some*” is worthless unless you *know in advance* which ones you will win on! [4].
- 2) It could be argued that the goal of researchers should be to solve real world problems, and that improving accuracy on the UCR Archive is at best a poor proxy for such real world problems. Bing Hu has written a beautiful explanation as to why this is the case [2].

In spite of the above, the community generally finds the archive to be a very useful tool, and to date, more than 1,200 people have downloaded the UCR archive, and it has been referenced several hundred times.

We are therefore delighted to share this resource with you. The password you need available in this document, read on to find it.

Best of luck with your research.

Eamonn Keogh

Data Format

Each of the datasets comes in two parts, a TRAIN partition and a TEST partition.

For example, for the **synthetic control** dataset we have two files, `synthetic_control_TEST` and `synthetic_control_TRAIN`

The two files will be in the same format, but are generally of different sizes.

The files are in the standard ASCII format that can be read directly by most tools/languages.

For example, to read the two **synthetic control** dataset s into Matlab, we can type...

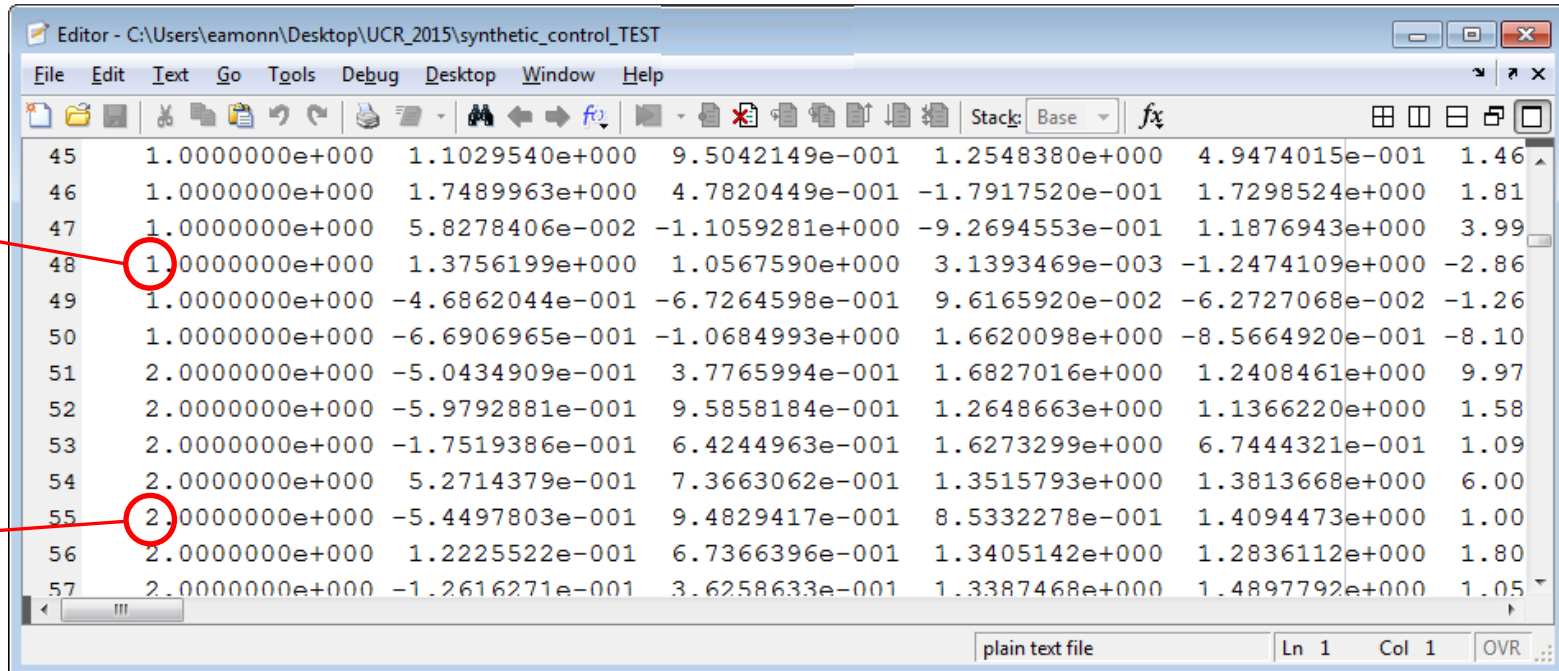
```
>> TRAIN = load('synthetic_control_TRAIN');  
>> TEST = load('synthetic_control_TEST');
```

...at the command line.

There is one data instance per row. The first value in the row is the class label (an integer between 1 and the number of classes). The rest of the row are the data values, and individual time series.

This instance is in class 1

This instance is in class 2



The screenshot shows a text editor window titled 'Editor - C:\Users\eamonn\Desktop\UCR_2015\synthetic_control_TEST'. The window displays a list of data instances, each on a new line. The first column contains class labels (1 or 2), and the subsequent columns contain numerical data values in scientific notation. Two instances are highlighted with red circles and arrows pointing to the text labels on the left: instance 47 (class 1) and instance 55 (class 2).

Line	Class Label	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6
45	1.0000000e+000	1.1029540e+000	9.5042149e-001	1.2548380e+000	4.9474015e-001	1.46	
46	1.0000000e+000	1.7489963e+000	4.7820449e-001	-1.7917520e-001	1.7298524e+000	1.81	
47	1.0000000e+000	5.8278406e-002	-1.1059281e+000	-9.2694553e-001	1.1876943e+000	3.99	
48	1.0000000e+000	1.3756199e+000	1.0567590e+000	3.1393469e-003	-1.2474109e+000	-2.86	
49	1.0000000e+000	-4.6862044e-001	-6.7264598e-001	9.6165920e-002	-6.2727068e-002	-1.26	
50	1.0000000e+000	-6.6906965e-001	-1.0684993e+000	1.6620098e+000	-8.5664920e-001	-8.10	
51	2.0000000e+000	-5.0434909e-001	3.7765994e-001	1.6827016e+000	1.2408461e+000	9.97	
52	2.0000000e+000	-5.9792881e-001	9.5858184e-001	1.2648663e+000	1.1366220e+000	1.58	
53	2.0000000e+000	-1.7519386e-001	6.4244963e-001	1.6273299e+000	6.7444321e-001	1.09	
54	2.0000000e+000	5.2714379e-001	7.3663062e-001	1.3515793e+000	1.3813668e+000	6.00	
55	2.0000000e+000	-5.4497803e-001	9.4829417e-001	8.5332278e-001	1.4094473e+000	1.00	
56	2.0000000e+000	1.2225522e-001	6.7366396e-001	1.3405142e+000	1.2836112e+000	1.80	
57	2.0000000e+000	-1.2616271e-001	3.6258633e-001	1.3387468e+000	1.4897792e+000	1.05	

Sanity Check

In order to make sure that you understand the data format, you should run this simple piece of matlab code (you can cut and paste it, it is standard Matlab)

Note that this is slow “teaching” code. To consider all the datasets in the archive, you will probably want to do something more sophisticated (indexing, lower bounding etc)

```
function UCR_time_series_test %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% (C) Eamonn Keogh %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
TRAIN = load('synthetic_control_TRAIN'); % Only these two lines need to be changed to test a different dataset. %
TEST = load('synthetic_control_TEST'); % Only these two lines need to be changed to test a different dataset. %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

TRAIN_class_labels = TRAIN(:,1); % Pull out the class labels.
TRAIN(:,1) = []; % Remove class labels from training set.
TEST_class_labels = TEST(:,1); % Pull out the class labels.
TEST(:,1) = []; % Remove class labels from testing set.
correct = 0; % Initialize the number we got correct
for i = 1 : length(TEST_class_labels) % Loop over every instance in the test set
    classify_this_object = TEST(i,:);
    this_objects_actual_class = TEST_class_labels(i);
    predicted_class = Classification_Algorithm(TRAIN,TRAIN_class_labels, classify_this_object);
    if predicted_class == this_objects_actual_class
        correct = correct + 1;
    end;
    disp([int2str(i), ' out of ', int2str(length(TEST_class_labels)), ' done']) % Report progress
end;
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% Create Report %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
disp(['The dataset you tested has ', int2str(length(unique(TRAIN_class_labels))), ' classes'])
disp(['The training set is of size ', int2str(size(TRAIN,1)),', and the test set is of size ',int2str(size(TEST,1)),'.'])
disp(['The time series are of length ', int2str(size(TRAIN,2))])
disp(['The error rate was ', num2str((length(TEST_class_labels)-correct)/length(TEST_class_labels))])
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% End Report %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Here is a sample classification algorithm, it is the simple (yet very competitive) one-nearest
% neighbor using the Euclidean distance.
% If you are advocating a new distance measure you just need to change the line marked "Euclidean distance"
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
function predicted_class = Classification_Algorithm(TRAIN,TRAIN_class_labels,unknown_object)
best_so_far = inf;
for i = 1 : length(TRAIN_class_labels)
    compare_to_this_object = TRAIN(i,:);
    distance = sqrt(sum((compare_to_this_object - unknown_object).^2)); % Euclidean distance
    if distance < best_so_far
        predicted_class = TRAIN_class_labels(i);
        best_so_far = distance;
    end
end;
end;
```

```
>> UCR_time_series_test
1 out of 300 done
2 out of 300 done
...
299 out of 300 done
300 out of 300 done
The dataset you tested has 6 classes
The training set is of size 300, and the test set is of size 300.
The time series are of length 60
The error rate was 0.12
```

In this package we have produced a Excel file that gives basic information about the datasets (number of classes, size of train/test splits, length of time series etc)

In addition, we have computed the error rates for:

- Euclidean distance
- DTW, unconstrained
- DTW, after learning the best constraint in the test set*

*Note that our simple method for learning the constraint is not necessary the best (as explained in the next slide).

The screenshot shows a Microsoft Excel spreadsheet titled 'UCR_2015_results.xls [Compatibility Mode]'. The spreadsheet contains a table with 13 rows of data. The columns are labeled as follows:

- A: Name
- B: First paper or data creator
- C: Number of classes
- D: Size of training set
- E: Size of testing set
- F: Time series Length
- G: 1-NN Euclidean Distance
- H: 1-NN Best Warping Window DTW (%) Note that r is the percentage of time series
- I: 1-NN DTW, no Warping Window

The data rows are as follows:

	A	B	C	D	E	F	G	H	I
1	Name	First paper or data creator	Number of classes	Size of training set	Size of testing set	Time series Length	1-NN Euclidean Distance	1-NN Best Warping Window DTW (%) Note that r is the percentage of time series	1-NN DTW, no Warping Window
2									
3	Synthetic Control	Pham	6	300train	300test	60	0.12	0.017	0.007
4	Gun-Point	Ratanamahatana	2	50	150	150	0.087	0.087 (0)	0.093
5	CBF		3	30	900	128	0.148	0.004 (11)	0.003
6	Face (all)	Xi	14	560	1,690	131	0.286	0.192	0.192
7	OSU Leaf	Gandhi	6	200	242	427	0.479	0.388	0.409
8	Swedish Leaf	Soderkvist	15	500	625	128	0.211	0.154(2)	0.208
9	50Words	Rath	50	450	455	270	0.369	0.242	0.310
10	Trace	Roverso	4	100	100	275	0.24	0.01 (3)	0.0
11	Two Patterns	Geurts	4	1,000	4,000	128	0.09	0.002	0.0
12	Wafer	Olszewski	2	1,000	6,174	152	0.005	0.005 (1)	0.020
13	Face (four)	Ratanamahatana	4	24	88	350	0.216	0.114 (2)	0.170

Worked Example

We can use the Archive to answer the following question. *Is DTW better than Euclidean distance for all/most/some/any problems?*

As explained in [4], if DTW is only better on *some* datasets, this is not very useful unless we know ahead of time that it will be better. To test this we can build a Texas Sharpshooter plot (see [4] for details).

In brief, after computing the baseline (here, the Euclidean distance) we then compute the **expected improvement** we would get using DTW (at this stage, learning any parameters and settings), then compute **the actual improvement** obtained (using these now hardcoded parameters and settings).

When we create the Texas Sharpshooter plot, each dataset falls into one of four possibilities.

In our worked example, we will try to optimize the performance of DTW, and predict its improvement (which could be negative), in a very simple way.

Expected Improvement: We will search over different warping window constraints, from 0% to 100%, in 1% increments, looking for the warping window size that gives the highest 1NN training accuracy (if there are ties, we choose the smaller warping window size).

Actual Improvement: Using the warping window size we learned in the last phase, we test the holdout test data on the training set with 1NN.

Note that there are better ways to do this (learn with increments smaller than 1%, use KNN instead of 1NN, do cross validation within the test set etc). However, as the next slides show, the results are pretty unambiguous even for this simple effort.

Texas Sharpshooter Plot [4]

	We expected to do worse, but we did better.	We expected an improvement and we got it!
Actual Accuracy Gain	We expected to do worse, and we did.	We expected to do better, but actually did worse.

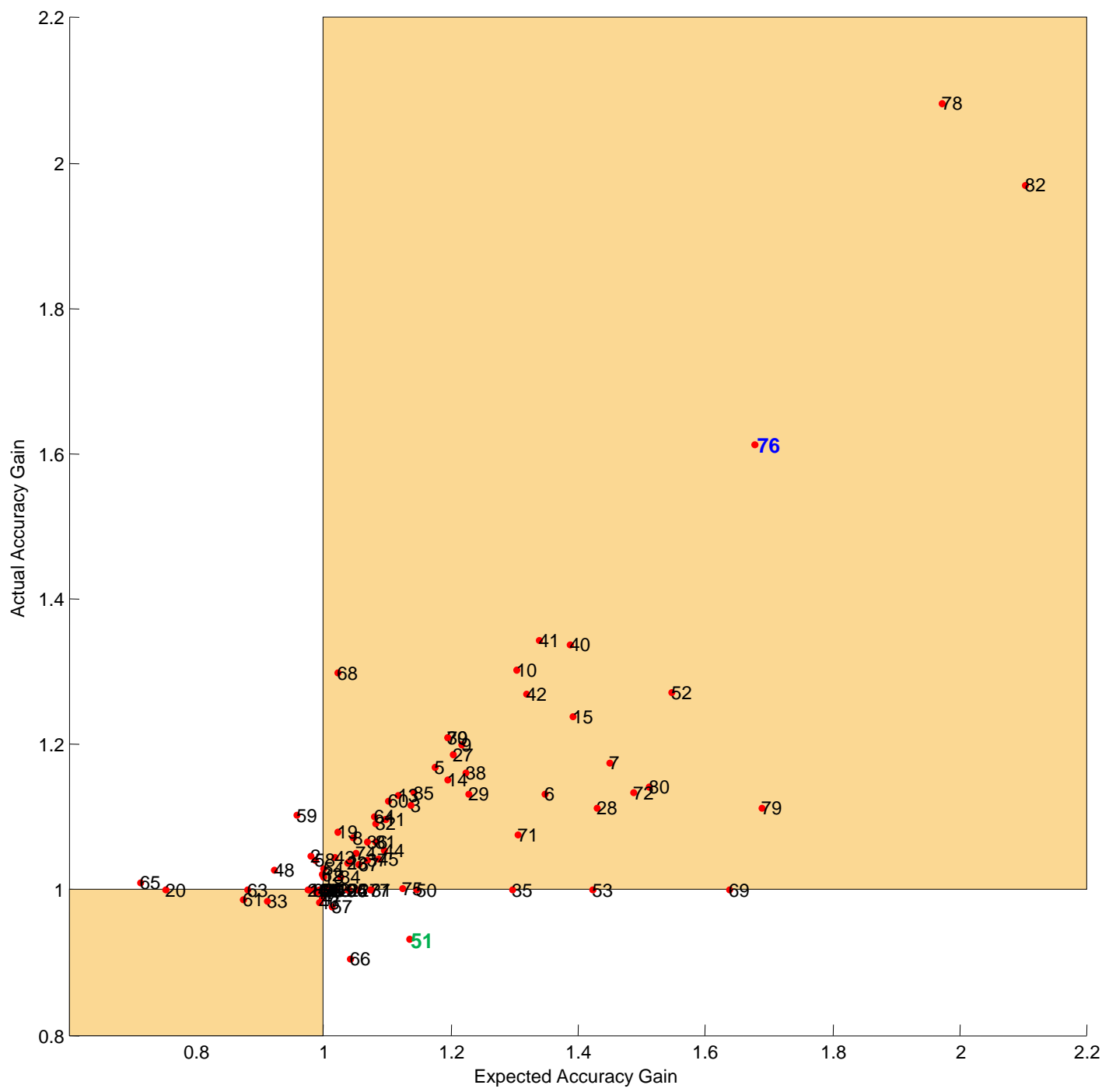
Expected Accuracy Gain

The results are strongly supportive of the claim “DTW better than Euclidean distance for most problems”

We sometimes had difficulty in predicting *when* DTW would be better/worse, but many of the training sets are tiny, making such tests very difficult.

For example, **51** is BeetleFy, with just 20 train and 20 test instances. Here we expected to do a little better, but we did a little worse.

In contrast, for **76** (LargeKitchenAppliances) we had 375 train and 375 test instances, and were able to more accurately predict a large improvement.



Suggested Best Practices/Hints

1. If you modify the data in anyway (add noise, add warping etc), please give the modified data back to the archive before you submit your paper (we will host it, and that way a diligent reviewer can test your claims while the paper is under review).
2. Where possible, we strongly advocate testing and publishing results **on all datasets** (to avoid cherry-picking), unless of course you are making an explicit claim for only a certain type of data (i.e. classifying **short** time series). In the event you don't have space in your paper, we suggest you create an extended tech report online and point to it. Please see [4] (esp. Fig 14) for some ideas on how to visualize the accuracy results on so many datasets.
3. If you have additional datasets, we ask that you donate them to the archive in our simple format.
4. When you write your paper, please make *reproducibility* your goal. In particular, explicitly state all parameters. A good guiding principle is to ask yourself Could a smart grad student get the exact same results as claimed in this paper with a days effort?. If the answer is no, we believe that something is wrong. Help the imaginary grad student by rewriting your paper.
5. Where possible, make your code available (as we have done), it will makes the reviewers task easier.
6. If you are advocating a new distance/similarity measure, we strongly recommend you test and report the 1-NN accuracy (as we have done). Note that this does **not** preclude the addition of other of tests (we strongly encourage additional test), however the 1-NN test has the advantage of having no parameters and allowing comparisons between methods.
7. Note that the data is z-normalized. Paper [7] explains why this is very important.

Suggested Reading

1. Xiaoyue Wang, Abdullah Mueen, Hui Ding, Goce Trajcevski, Peter Scheuermann, Eamonn J. Keogh: Experimental comparison of representation methods and distance measures for time series data. *Data Min. Knowl. Discov.* 26(2): 275-309 (2013).
2. Bing Hu, Yanping Chen, Eamonn J. Keogh: Time Series Classification under More Realistic Assumptions. *SDM 2013*: 578-586.
3. Hills, J., Lines, J, Baranauskas, E., Mapp, J. and Bagnall, A. Classification of time series by shapelet transformation. *Data Mining and Knowledge Discovery Journal*. ISSN 1384-5810, 2013.
4. Gustavo E. A. P. A. Batista, Xiaoyue Wang, Eamonn J. Keogh: A Complexity-Invariant Distance Measure for Time Series. *SDM 2011*: 699-710
5. Keogh, E., Zhu, Q., Hu, B., Hao. Y., Xi, X., Wei, L. & Ratanamahatana, C. A. (2011). The UCR Time Series Classification/Clustering Homepage.
6. Eamonn J. Keogh, Shruti Kasetty: On the Need for Time Series Data Mining Benchmarks: A Survey and Empirical Demonstration. *Data Min. Knowl. Discov.* 7(4): 349-371 (2003)
7. Thanawin Rakthanmanon, Bilson J. L. Campana, Abdullah Mueen, Gustavo E. A. P. A. Batista, M. Brandon Westover, Qiang Zhu, Jesin Zakaria, Eamonn J. Keogh: Addressing Big Data Time Series: Mining Trillions of Time Series Subsequences Under Dynamic Time Warping. *TKDD* 7(3): 10 (2013)

Shiyuan Liu, Li Lv
Thiago Santos Quirinio, Mei-Ling Shyu
Pierre-François Marteau,
Cosmin Bocanila, Lancaster University.
Yueguo Chen, Anthony K.H. Tung, Beng Chin Ooi, National University of Singapore.
Vernon Rego, Vernon Rego. Purdue University.
Mislav Malenica, Tomislav Smuc
Man Hon WONG, ZHOU MI, The Chinese University of Hong Kong.
Guillaume Bouchard Xerox Research Centre Europe.
Hao Vo and David Joslin Seattle University.
Carlotta Orsenigo, University degli Studi di Milano.
Dr. Paolo Ciaiccia
Xiaoqing Weng, Jiaotong University.
Longjin Jan Latecki and Qiang Wang, Temple University.
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Wang Zhimin
Miao Zeng and Yubao Liu
Rene Vidal and Rizwan Chaudhry
Susan Cheng and Min Ding
Amit Ganatra and Dhaval Bhoi

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Cexus Jean-Christophe
Antonello Rizzi and Arnaldo Rizzi
Zhai Ting Ting
Ming Zhang
Shanghai Jiao Tong and Zhang Zhongneng
Zhang Zhang and Dacheng Tao
Trevor Tan
Te Minh Thuy
Yin Zhou and Kenneth Barner
Suzanne Tamang and Simon Parsons
carlotta orsenigo and carlo vercellis
Bahaeddin Eravci and Hakan Ferhatosmanli
Haojie Jiang
Bingyi Kang
Jing Zhang
Jon Froehlich and Yi-Chun Ko
Matthias Klusch and Josenildo Silva
Jing Yang
Kornig Sidhi Artha
Phillip Knauts and Nick Jones
Ivan Mitzev and Nick Younan
Juhua Hu and Jian Pei
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Andrey Sukhanov
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hongxiang ye and QIAN-LI MA
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Vladislav Mišković
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Wei Ding and Yang Wang
Meng-Jun Shih and Shou-de Lin
Osman Gurbani
Li Min and Xinyu Yuan
Hiba Shamroukh
Ying-Hong Chen
Puneet Singh
Joaquim Vinicius C Assuncao
B Kalyan Kumar and deto markar
Jim Austin and Alex de Gooijer
Jundong Li and S. S. M. Zaiane
Bilal Bouteb
Oya Celikcan, buent sankur and Cem Sübakan
Michael Peter Grew
Katarzyna Kaczmarek and Olgierd Hryniewicz
Julia Park
Danielle Codeca and Fabio Antonietti
Anqi Wu and Raghu Raghavandan
Nur Zuria Haryani and Joon Razak
Hamdan Ana Arrabas
Zhe Bao and Junping Li
Alvaro Kotsis and Vasillis Athitsos
Vincent S. Tessier
Ryan Kleck and Qu Quanqun
Gavin Smith
Usue Iwori, Jose A. Lozano, Alexander Mendiburu
Mohammed Hasan Al-Weshah
Sarah Brockhaus and Sonja Greven
Fenghuan Li
Wang Yu
Mayank Mohta and Adit Madan
Srinivasulu Reddy and Naga sundaram
Chiating Mao and Jia-Dong MAO
Maciej Luczak
Guang Wang and Tim Oates
Lukas Pfahler and marco stolpe
Ricardo Agarwal
Yada Zhu and Jingrui He
Thanhvinh Vo and Duong Tuan Anh
Chris Carbone
Xiaohui Huang
Nicolas Ragot
Tanmoy Mondal
Guillem Rigall
Fatemeh Kaveh-Yazdy and mohammad reza zare
Azer Kerimov
Hanan Shteingart
Xin Qi
S. Mohanavalli
Emanuele Ruffaldi and Leonard Johard
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Pierre Allain and Thomas Corpetti
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Faraz Noorian

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Felix Reinhart and Witall A. Wolinski
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Cun Ji
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Claudio Picarelli and Gian Luca Foresti
Wei T. Yue
Michael Botsch and Josef A. Nossek
Bingyu Sun
Sun, Fu-Shing
Babak Amiri
Xing ChunXiao and Du Xutao, Tsinghua University
Elloumi Samir , Sondess Bentekaya
Li Shijin
Erik Learned-Miller, Marwan A. Mattar
Chiranjib Bhattacharya, Karthik K
Nacandro Cruz Ramirez
Jiankui Guo Fudan University
Bin Z Zhang IBM
Yi-Dong Shen and Zhiyong Shen
Georgios Evangelidis, Leonidas Karamitopoulos
Hendrik Purwins
Jignesh M. Patel and Michael Morse
Gert Van Dijk and Marc Van Hulle
Chao Hui Lee and Vincent Tseng
Linh Tran (Boeing)
Hugo Alonso Vilares Monteiro and Joaquim Fernando Pinto da Costa
David Minnen
Tsuayoshi Mikami
Qiang Yang and Sinno Pan
Paolo Tormene
Hui Ding and Peter Scheuermann
Ronald Cristiano Prati
Christian Gruber and Bernhard Sick
Silvia Chiappa
Ankur Jain
Maria Cristina Ferreira de Oliveira and Aretha Barbosa Aلعنار
Felipe Andriani
Miyung-Seon Gil
Pengtao Jia
Fariid Seifi.
Clodoldo Aparecido de Moraes Lima
Konstantinos Blekas
Juan Prada
Ben Fulcher and Nick Jones
Victor Sheng
Cedric Fambourg and Ahlame Douzal Chouakria
Rakia JAZIRI and Mustapha Lebbah
Dave Marshall and Andrew Aubrey
Omar Torfason
Le Huu Thanh and Duong Tuan Anh.
Lalla Fatehy and Mahmoud Gabr
Lille veenstra
Nimsa Rishi
Mohyuddin Ahmad and md. Abdul Awal
Hyukyoung Lee and Rahul Singh

Inderjit Dhillon and HYUK CHO
Aida Vallis
Narayanan Chatapuram Krishnan and Sethuraman
Panchanathan
Stephan Gunnemann and Thomas Seidl
Thirumaran Ekambaram and M. Narasimha Murthy
Christine Preisch and Lars Schmidt-Thieme
Dino Isa and Rajprasad Kumar
Feibao Zhuo
Frans van den Bergh
Kfir Glik
Xiao Yu
Yingying Zhu
Rosanna Verde and Antonio Balzanella
Paul Baggenstoss
Koichi ASAKURA and Wei Fan
Luca Sacchi and Iyad Batal
Morne Nesper
Luca Chiaravalloti
vikram deshmukh
Harri M.T. Saarikoski
Calo Nogara Andreatta and Neusa Grandio
Ying Xie
Ulf Grobekaethor
Christophe Genolini
Celine Robardet
Musa Chemisto
Wangmeng Zuo
Paolo Remagnino
Soumy Rai and Tim Oates
Pierre Ganarski and Francois Petitjean
Joydeep Ghosh and John Tourish
Alireza-Kaker
Wilfgang Nejdl and ERNESTO DIAZ-AVILES
Roman Tavenard and Laurent Amsaleg
Hahn-Ming Lee, Christos Faloutsos, Hsing-Kuooh Pao, Ching-Hao (Eric) Mao
Woong-Keel Loh
bikesh singh
Marco Grimaldi, Cesare Furlanello and Giuseppe Jurman
Chonghui Guo
Saeid Rashidi
Yanchang Zhang
S R Kannan
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Yosi Keller
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Tomoyuki Hiroyasu and Takuma Nishii
Blaz Strle and Martin Mozina
Yasin Bakis
Mrinal Mandal and Cheng Lu
Hendrik Bloelock and Kurt Driessens
Jonas Haustad and Yongluan Zhou
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Oscar Gerardo Sanchez Sjordria and Isaac Martin de Diego
Scott Deeanen Chen
Lixia Wu
Tewari, Ashutosh
RANGENA T V radhakrishnan
Zhou Zhou
Troy Raeder
Amit Thombre
Nhuat Ta Hoang
Osin Mac Aodha
Ali Farahpour
Xingwang Zhao
Wu Gang
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Wang He Nan
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Saeed R. Aghabozorgi
Paolo Giussani
Zhenhui (Jessie) Li and Jiawei Han
Jeff Patti
Muthyala Kartheek, Navneet Goyal
Mojtaba Najafi, Dr. Kangwari
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Zoe Falomir-Liansola
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Some of the people that requested the UCP Archive prior to Summer 2015: Page 2

Appendix A:

Sharpshooter Plots

Here is the code we used to produce the sharpshooter plots.

```
function plot_texas_sharpshooter()

% Compute a Texas Sharpshooter plot of DTW over Euclidean Distance. See SDM 2011 paper
% Batista, Wang and Keogh (2011) A Complexity-Invariant Distance Measure for Time Series. SDM 2011 [

texas_names = data_names; % Note that the order of texas_names and texas_values must be the same.
texas_values = 1-error_rates; % Note that here we convert error to accuracy, by subtracting from 1

expected_accuracy_gain = texas_values(:,2)./texas_values(:,1);
actual_accuracy_gain = texas_values(:,3)./texas_values(:,1);

plot(expected_accuracy_gain,actual_accuracy_gain,'r. '); % Produce plot just so we can get Xlim and Ylim
Xaxis = get(gca,'XLim');
Yaxis = get(gca,'YLim');

clf
hold on;
axis square;

patch([Xaxis(1) 1 1 Xaxis(1)], [Yaxis(1) Yaxis(1) 1 1 ], [0.9843 0.8471 0.5765]); % Bottom left quadrant
patch([1 Xaxis(2) Xaxis(2) 1], [1 1 Yaxis(2) Yaxis(2) ], [0.9843 0.8471 0.5765]); % Top right quadrant

plot(expected_accuracy_gain,actual_accuracy_gain,'r. ');

xlabel('Expected Accuracy Gain');
ylabel('Actual Accuracy Gain');

for i = 1: length(texas_values(:,1))
    %text(expected_accuracy_gain(i),actual_accuracy_gain(i),int2str(i))
end

for i = 1: length(texas_values(:,1))
    text(expected_accuracy_gain(i),actual_accuracy_gain(i),texas_names(i,:), 'rotation', +30)
end

end

function names = data_names()

names =...
['Plane' ;
'Car' ;
'Synthetic Control' ;
'Gun-Point' ;
'CBF' ;
'Face (all)' ;
'OSU Leaf' ;
'Swedish Leaf' ;
'50Words' ;
'Trace' ;
'Two Patterns' ;
'Wafer' ;
'Face (four)' ;
'Lightning-2' ;
'Lightning-7' ;
'ECG' ;
'Adiac' ;
'Yoga' ;
'Fish (readme)' ;
'Beef' ;
'Coffee' ;
'OliveOil' ;
'CinC_ECG_torso' ;
'ChlorineConcentration' ;
'DiatomSizeReduction' ;
'ECGFiveDays' ;
'Face4UCR' ;
'Haptics' ;
'InlineSkate' ;
'ItalyPowerDemand' ;
'MELAR' ;
'MedicalImages' ;
'MoteStrain' ;
'SonyAIBORobot SurfaceII' ;
'SonyAIBORobot Surface' ;
'StarLightCurves' ;
'Symbols' ;
'TwoLeadECG' ;
'WordsSynonyms' ;
'Cricket_X' ;
'Cricket_Y' ;
'Cricket_Z' ;
'uWaveGestureLibrary_X' ;
```

The Password

- As noted above. My one regret about creating the UCR archive is that some researchers see improving accuracy on it as *sufficient* task to warrant a publication. I am not convinced that this should be the case (unless the improvements are very significant, or the technique is so novel/interesting it might be of independent interest).
- However, the archive is in a very contrived format. In many cases, taking a real world dataset, and putting it into this format, is a *much* harder problem than classification itself!
- Bing Hu explains this nicely in the introduction to her paper [2], I think it should be required reading for anyone working in this area.
- So, the password is the three redacted words from this sentence “*Every item that we ***** ## @@@@ @@@@ belongs to exactly one of our well-defined classes*”, after you remove the two spaces.
- The sentence is on the first page of [2].