Raport

January 23, 2020

1 Punktacja czasopism w dyscyplinach AEE i ITT

Celem niniejszego dokumentu jest przedstawienie podstawowych informacji statystycznych o czasopismach piunktowanych przez MNISW (lista z lipca 2019). Przygotowane pliki bdzie atwo jednak skonwertowa na list z nowymi danymi.

[43]:
```python
import pandas as pd
dane=pd.read_csv('../Analysis Data/Punktacja_MNISW_oraz_IF_dla_AEE_i_ITT.csv')
dane.set_index('Numer z listy MNISW',inplace=True)
dane['Punkty']=dane['Punkty'].astype('category')
dane.head()
```

[43]:
```
                                                             Tytu  \
Numer z listy MNISW
1                                                      2D Materials
6                         3D Printing and Additive Manufacturing
7                                                       3D Research
10                       4OR-A Quarterly Journal of Operations Research
76                          ACM Communications in Computer Algebra


                          issn      e-issn     AEE     ITT Punkty      IF
Numer z listy MNISW
1                    2053-1583   2053-1583    True   False    140   7.343
6                    2329-7662   2329-7670    True   False    100   3.259
7                    2092-6731   2092-6731    True    True     40     NaN
10                   1619-4500   1614-2411   False    True     70   2.056
76                   1932-2232   1932-2240    True    True     20     NaN
```

1.1 Czasopisma z AEE z podziaem na punktacje

[30]:
```python
dane[dane.AEE].loc[:,['AEE','Punkty']].groupby(['Punkty']).count()
```

[30]:
```
          AEE
Punkty
20        505
40        396
70        391
100       262
```

```
140     170
200      70
```

[31]:
```python
print('Sumaryczna liczba czasopism w dyscyplinie AEE: '+str(sum(dane.AEE)))
```

Sumaryczna liczba czasopism w dyscyplinie AEE: 1794

1.2 Czasopisma z ITT z podziaem na punktacje

[32]:
```python
dane[dane.ITT].loc[:,['ITT','Punkty']].groupby(['Punkty']).count()
```

[32]:
```
           ITT
Punkty
20         606
40         475
70         494
100        386
140        249
200         85
```

[33]:
```python
print('Sumaryczna liczba czasopism w dyscyplinie ITT: '+str(sum(dane.ITT)))
```

Sumaryczna liczba czasopism w dyscyplinie ITT: 2295

1.3 Czasopisma z wspólne z podziaem na punktacje

[34]:
```python
dane[dane.AEE&dane.ITT].loc[:,['AEE','ITT','Punkty']].groupby(['Punkty']).
 ↪count()
```

[34]:
```
           AEE   ITT
Punkty
20         219   219
40         176   176
70         162   162
100        126   126
140         95    95
200         32    32
```

[16]:
```python
print('Sumaryczna liczba czasopism wspólnych dla obu dyscyplin: '+str(sum(dane.
 ↪ITT&dane.AEE)))
```
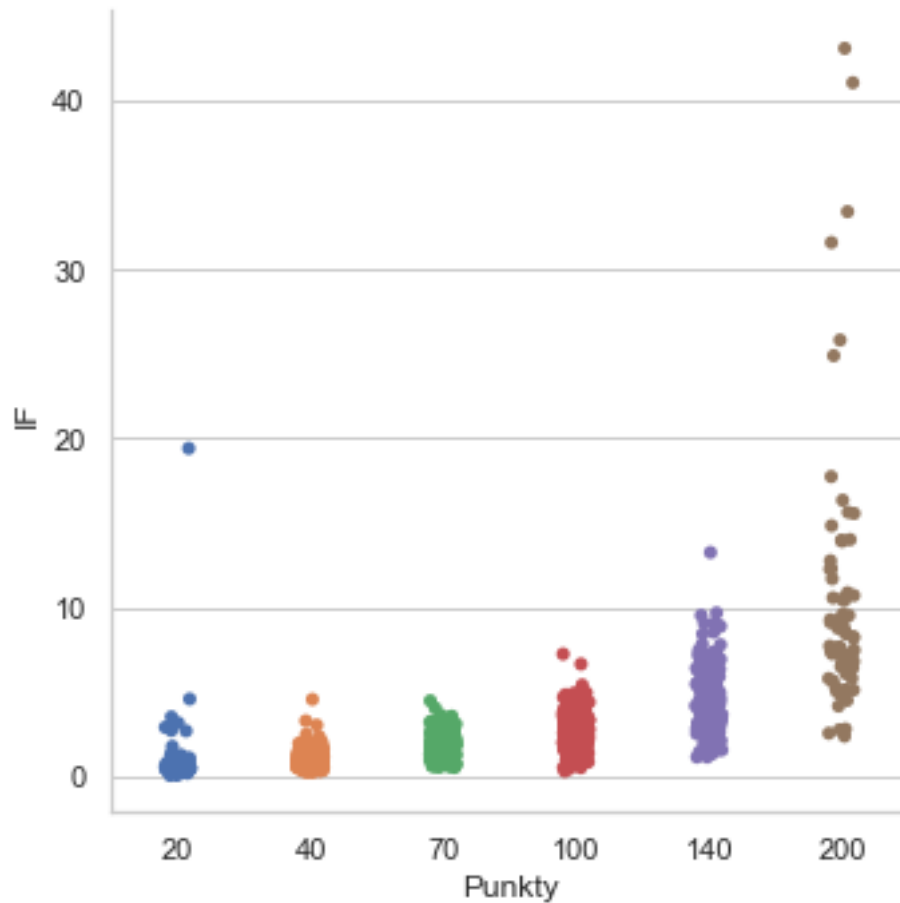
Sumaryczna liczba czasopism wspólnych dla obu dyscyplin: 810

1.4 Zwizki punktacji MNISW z IF w dyscyplinie AEE

[37]:
```python
import matplotlib.pyplot as plt
import seaborn as sns
sns.set(style="whitegrid", color_codes=True)
```

```
sns.catplot(x="Punkty", y="IF", data=dane[dane.AEE]);

#dane[dane.AEE].plot(kind='scatter',x='IF',y='Punkty',yticks=dane.Punkty.
 ↪unique())
#plt.show()
```


- Jak wida zwizków nie ma.
- Dla 20 punktowych jest kilka zaskakujcych outlierów. W szczególnoci **Science Robotics**, które chyba powinno mie 200.

1.4.1 Najwysze impact factory:

```
[44]: dane[dane.AEE].sort_values('IF',ascending=False).head(20)
```

```
[44]:                                                                    Tytu  \
      Numer z listy MNISW
      14801                                                            NATURE
      18197                                                           SCIENCE
```

14826	Nature Nanotechnology
14828	Nature Photonics
430	ADVANCED MATERIALS
424	Advanced Energy Materials
18241	Science Robotics
8005	IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACH...
133	ACS Energy Letters
427	ADVANCED FUNCTIONAL MATERIALS
14731	Nano Energy
19142	SURFACE SCIENCE REPORTS
13641	Light-Science & Applications
526	Advances in Optics and Photonics
137	ACS Nano
7893	IEEE Industrial Electronics Magazine
1504	Applied Physics Reviews
14733	NANO LETTERS
20915	Annual Review of Biomedical Engineering
8001	IEEE Transactions on Neural Networks and Learn...

	issn	e-issn	AEE	ITT	Punkty	IF
Numer z listy MNISW						
14801	0028-0836	1476-4687	True	False	200	43.070
18197	0036-8075	1095-9203	True	False	200	41.037
14826	1748-3387	1748-3395	True	False	200	33.407
14828	1749-4885	1749-4893	True	False	200	31.583
430	0935-9648	1521-4095	True	False	200	25.809
424	1614-6832	1614-6840	True	False	200	24.884
18241	2470-9476	2470-9476	True	False	20	19.400
8005	0162-8828	1939-3539	True	True	200	17.730
133	2380-8195	2380-8195	True	False	200	16.331
427	1616-301X	1616-3028	True	False	200	15.621
14731	2211-2855	2211-3282	True	False	200	15.548
19142	0167-5729	1879-274X	True	False	200	14.824
13641	2047-7538	2047-7538	True	False	200	14.000
526	1943-8206	NaN	True	False	200	13.963
137	1936-0851	1936-086X	True	False	200	13.903
7893	1932-4529	1941-0115	True	True	140	13.241
1504	1931-9401	1931-9401	True	False	200	12.750
14733	1530-6984	1530-6992	True	False	200	12.279
20915	1523-9829	1545-4274	True	False	200	12.257
8001	2162-237X	2162-2388	True	True	200	11.683

1.4.2 Czasopisma z IEEE

```python
pd.set_option('display.max_rows', 500)
dane[dane.AEE&dane['Tytu'].str.contains('IEEE')].
  ↪sort_values(['Punkty','IF'],ascending=False)
```

[58]:

```
                                                            Tytu  \
Numer z listy MNISW
8005              IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACH...
8001              IEEE Transactions on Neural Networks and Learn...
16512                                     PROCEEDINGS OF THE IEEE
8017                             IEEE Transactions on Smart Grid
7966                             IEEE Transactions on Cybernetics
7899                            IEEE Internet of Things Journal
7977                          IEEE TRANSACTIONS ON FUZZY SYSTEMS
7976              IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION
8019                       IEEE Transactions on Sustainable Energy
7934                            IEEE SIGNAL PROCESSING MAGAZINE
7982              IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS
7983              IEEE Transactions on Industrial Informatics
8008                       IEEE TRANSACTIONS ON POWER ELECTRONICS
8009                          IEEE TRANSACTIONS ON POWER SYSTEMS
7981                          IEEE TRANSACTIONS ON IMAGE PROCESSING
7907              IEEE Journal of Selected Topics in Signal Proc...
8012                               IEEE Transactions on Robotics
7978              IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SEN...
8022              IEEE Transactions on Transportation Electrific...
7944                       IEEE TRANSACTIONS ON AUTOMATIC CONTROL
7930                       IEEE Robotics and Automation Letters
7893                         IEEE Industrial Electronics Magazine
7892              IEEE Geoscience and Remote Sensing Magazine
7992                          IEEE TRANSACTIONS ON MEDICAL IMAGING
8020              IEEE Transactions on Systems Man Cybernetics-S...
7941                  IEEE Transactions on Affective Computing
7885                             IEEE CONTROL SYSTEMS MAGAZINE
8028                         IEEE Vehicular Technology Magazine
7901              IEEE Journal of Emerging and Selected Topics i...
7881                     IEEE Computational Intelligence Magazine
7988              IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATIO...
7956                          IEEE TRANSACTIONS ON COMMUNICATIONS
7995                             IEEE TRANSACTIONS ON MULTIMEDIA
7965              IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY
8024                      IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY
8016                       IEEE TRANSACTIONS ON SIGNAL PROCESSING
7945              IEEE Transactions on Automation Science and En...
7908                          IEEE JOURNAL OF SOLID-STATE CIRCUITS
8034                      IEEE-ASME TRANSACTIONS ON MECHATRONICS
7964              IEEE Transactions on Control of Network Systems
```

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7924	IEEE PHOTONICS TECHNOLOGY LETTERS
7961	IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF ...
7917	IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS
7998	IEEE TRANSACTIONS ON NANOTECHNOLOGY
7971	IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBI...
7970	IEEE TRANSACTIONS ON EDUCATION
7969	IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICA...
7963	IEEE TRANSACTIONS ON CONSUMER ELECTRONICS
7909	IEEE Journal of the Electron Devices Society
7887	IEEE ELECTRICAL INSULATION MAGAZINE
8025	IEEE TRANSACTIONS ON VERY LARGE SCALE INTEGRAT...
7926	IEEE Power Electronics Magazine
7996	IEEE Transactions on Multi-Scale Computing Sys...
22894	IEEE/OSA Journal of Display Technology
7886	IEEE Design & Test
7936	IEEE SPECTRUM
8032	IEEE-ACM Transactions on Computational Biology...
7979	IEEE Transactions on Haptics
7954	IEEE Transactions on Cognitive and Development...
7904	IEEE JOURNAL OF QUANTUM ELECTRONICS
7872	IEEE AEROSPACE AND ELECTRONIC SYSTEMS MAGAZINE
7910	IEEE Journal of Translational Engineering in H...
7997	IEEE TRANSACTIONS ON NANOBIOSCIENCE
7957	IEEE Transactions on Components Packaging and ...
7943	IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY
7915	IEEE Magnetics Letters
7991	IEEE TRANSACTIONS ON MAGNETICS
7968	IEEE TRANSACTIONS ON DEVICE AND MATERIALS RELI...
7890	IEEE Embedded Systems Letters
8003	IEEE TRANSACTIONS ON NUCLEAR SCIENCE
7894	IEEE INDUSTRY APPLICATIONS MAGAZINE
8006	IEEE TRANSACTIONS ON PLASMA SCIENCE
7882	IEEE Computer Architecture Letters
8013	IEEE TRANSACTIONS ON SEMICONDUCTOR MANUFACTURING
7959	IEEE Transactions on Computational Intelligenc...
7895	IEEE INSTRUMENTATION & MEASUREMENT MAGAZINE
7960	IEEE Transactions on Computational Social Systems
8035	IEEE-CAA Journal of Automatica Sinica
22887	IEEE Electromagnetic Compatibility Magazine
7958	IEEE Transactions on Computational Imaging
7884	IEEE Consumer Electronics Magazine
7939	IEEE TECHNOLOGY AND SOCIETY MAGAZINE
22890	IEEE Potentials
22891	IEEE Power and Energy Technology Systems Journal
8015	IEEE Transactions on Signal and Information Pr...
7914	IEEE Latin America Transactions
7927	IEEE Pulse

```
7888                             IEEE Electrification Magazine
7912         IEEE Journal on Exploratory Solid-State Comput...
7920                             IEEE Nanotechnology Magazine
7938            IEEE Systems Man and Cybernetics Magazine
22889        IEEE International Conference on Rehabilitatio...
```

Numer z listy MNISW	issn	e-issn	AEE	ITT	Punkty	IF
8005	0162-8828	1939-3539	True	True	200	17.730
8001	2162-237X	2162-2388	True	True	200	11.683
16512	0018-9219	1558-2256	True	True	200	10.694
8017	1949-3053	1949-3061	True	True	200	10.486
7966	2168-2267	2168-2275	True	True	200	10.387
7899	2327-4662	2327-4662	True	True	200	9.515
7977	1063-6706	1941-0034	True	True	200	8.759
7976	1089-778X	1941-0026	True	True	200	8.508
8019	1949-3029	NaN	True	False	200	7.650
7934	1053-5888	1558-0792	True	True	200	7.602
7982	0278-0046	1557-9948	True	True	200	7.503
7983	1551-3203	1941-0050	True	True	200	7.377
8008	0885-8993	1941-0107	True	False	200	7.224
8009	0885-8950	1558-0679	True	False	200	6.807
7981	1057-7149	1941-0042	True	True	200	6.790
7907	1932-4553	1941-0484	True	True	200	6.688
8012	1552-3098	1941-0468	True	True	200	6.483
7978	0196-2892	1558-0644	True	True	200	5.630
8022	2332-7782	2332-7782	True	False	200	5.270
7944	0018-9286	1558-2523	True	True	200	5.093
7930	2377-3766	2377-3766	True	True	200	NaN
7893	1932-4529	1941-0115	True	True	140	13.241
7892	2168-6831	2168-6831	True	True	140	9.659
7992	0278-0062	1558-254X	True	True	140	7.816
8020	2168-2216	2168-2216	True	True	140	7.351
7941	1949-3045	1949-3045	True	True	140	6.288
7885	1066-033X	1941-000X	True	True	140	6.228
8028	1556-6072	1556-6080	True	True	140	6.145
7901	2168-6777	NaN	True	False	140	5.972
7881	1556-603X	1556-6048	True	True	140	5.857
7988	1524-9050	1558-0016	True	True	140	5.744
7956	0090-6778	1558-0857	True	True	140	5.690
7995	1520-9210	1941-0077	True	True	140	5.452
7965	1063-6536	1558-0865	True	True	140	5.371
8024	0018-9545	1939-9359	True	True	140	5.339
8016	1053-587X	1941-0476	True	True	140	5.230
7945	1545-5955	1558-3783	True	True	140	5.224
7908	0018-9200	1558-173X	True	False	140	5.173
8034	1083-4435	1941-014X	True	False	140	4.943

7964	2325-5870	2372-2533	True	True	140	4.802
8018	0098-5589	1939-3520	True	True	140	4.778
7906	1077-260X	1558-4542	True	False	140	4.681
7974	0885-8969	1558-0059	True	False	140	4.614
7948	0018-9294	1558-2531	True	True	140	4.491
7896	1541-1672	1941-1294	True	True	140	4.464
7937	1932-8184	1937-9234	True	True	140	4.463
7942	0018-926X	1558-2221	True	True	140	4.435
8007	0885-8977	1937-4208	True	False	140	4.415
7949	0018-9316	1557-9611	True	True	140	4.374
7947	1932-4545	1940-9990	True	True	140	4.252
7929	1070-9932	1558-223X	True	True	140	4.250
7950	1051-8215	1558-2205	True	True	140	4.046
7952	1549-8328	1558-0806	True	False	140	3.934
8026	1077-2626	1941-0506	True	True	140	3.780
7993	0018-9480	1557-9670	True	True	140	3.756
7889	0741-3106	1558-0563	True	False	140	3.753
7919	1070-986X	1941-0166	True	True	140	3.556
7891	1545-598X	1558-0571	True	True	140	3.534
8031	2329-9290	NaN	True	True	140	3.531
7875	1536-1225	1548-5757	True	True	140	3.510
8002	1534-4320	1558-0210	True	True	140	3.478
7911	2156-3357	2156-3357	True	False	140	3.433
8004	1045-9219	1558-2183	True	True	140	3.402
7905	1939-1404	2151-1535	True	True	140	3.392
7984	0093-9994	1939-9367	True	True	140	3.347
7897	1939-1390	1939-1390	True	True	140	3.294
7951	1549-7747	1558-3791	True	False	140	3.250
8011	0018-9529	1558-1721	True	True	140	2.888
7916	0272-1732	1937-4143	True	False	140	2.570
7902	0364-9059	1558-1691	True	False	140	2.567
22892	1937-3333	NaN	True	True	140	NaN
7925	1540-7977	1558-4216	True	False	100	4.800
7876	1531-636X	1558-0830	True	True	100	4.481
7871	2169-3536	2169-3536	True	True	100	4.098
7922	1536-1268	1558-2590	True	True	100	3.813
7874	1045-9243	1558-4143	True	True	100	3.804
7903	2156-3381	2156-3381	True	False	100	3.398
7980	2168-2291	2168-2305	True	True	100	3.332
7933	1070-9908	1558-2361	True	True	100	3.268
7932	1530-437X	1558-1748	True	True	100	3.076
7987	0018-9456	1557-9662	True	True	100	3.067
8021	2156-342X	2156-342X	True	True	100	3.030
8023	0885-3010	1525-8955	True	False	100	2.989
7918	1527-3342	1557-9581	True	True	100	2.949
7940	0018-9251	1557-9603	True	False	100	2.797
7923	1943-0655	1943-0647	True	False	100	2.729

7972	0018-9383	1557-9646	True	False	100	2.704
7924	1041-1135	1941-0174	True	False	100	2.553
7961	0278-0070	1937-4151	True	True	100	2.402
7917	1531-1309	1558-1764	True	False	100	2.374
7998	1536-125X	1941-0085	True	False	100	2.292
7971	0018-9375	1558-187X	True	True	100	2.274
7970	0018-9359	1557-9638	True	False	100	2.214
7969	1070-9878	1558-4135	True	False	100	2.135
7963	0098-3063	1558-4127	True	True	100	2.083
7909	2168-6734	2168-6734	True	False	100	2.000
7887	0883-7554	1558-4402	True	False	100	1.983
8025	1063-8210	1557-9999	True	True	100	1.946
7926	2329-9207	2329-9215	True	False	100	NaN
7996	2332-7766	2332-7766	True	True	100	NaN
22894	1551-319X	NaN	True	False	100	NaN
7886	2168-2356	NaN	True	True	70	3.022
7936	0018-9235	1939-9340	True	True	70	3.015
8032	1545-5963	1557-9964	True	True	70	2.896
7979	1939-1412	2329-4051	True	True	70	2.757
7954	2379-8920	2379-8939	True	True	70	2.755
7904	0018-9197	1558-1713	True	False	70	2.753
7872	0885-8985	1557-959X	True	True	70	2.113
7910	2168-2372	2168-2372	True	True	70	2.075
7997	1536-1241	1558-2639	True	False	70	1.927
7957	2156-3950	2156-3985	True	False	70	1.860
7943	1051-8223	1558-2515	True	True	70	1.692
7915	1949-307X	1949-307X	True	True	70	1.672
7991	0018-9464	1941-0069	True	False	70	1.651
7968	1530-4388	1558-2574	True	True	70	1.583
7890	1943-0663	1943-0663	True	True	70	1.500
8003	0018-9499	1558-1578	True	False	70	1.428
7894	1077-2618	1558-0598	True	False	70	1.373
8006	0093-3813	1939-9375	True	False	70	1.325
7882	1556-6056	1556-6064	True	True	70	1.149
8013	0894-6507	1558-2345	True	False	70	1.140
7959	1943-068X	1943-0698	True	True	70	1.056
7895	1094-6969	1941-0123	True	True	70	1.024
7960	2329-924X	2329-924X	True	True	70	NaN
8035	2329-9266	2329-9274	True	True	70	NaN
22887	2162-2272	NaN	True	True	70	NaN
7958	2333-9403	2333-9403	True	True	40	4.546
7884	2162-2248	2162-2256	True	True	40	3.273
7939	0278-0097	1937-416X	True	False	40	1.022
22890	0278-6648	NaN	True	False	40	NaN
22891	2332-7707	NaN	True	False	40	NaN
8015	2373-776X	2373-776X	True	True	20	3.153
7914	1548-0992	1548-0992	True	True	20	0.804

```
7927                2154-2287  2154-2287  True   True   20  0.662
7888                2325-5897  2325-5897  True   False  20  NaN
7912                2329-9231  2329-9231  True   True   20  NaN
7920                1932-4510  1942-7808  True   False  20  NaN
7938                2333-942X  2333-942X  True   True   20  NaN
22889               1945-7901        NaN  True   False  20  NaN
```

[ ]: