# Raport

January 27, 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.

```
[40]: 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()
```

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

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

```
140     170
200      70
```

```python
[31]: 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

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

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

```python
[33]: 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

```python
[34]: 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
```

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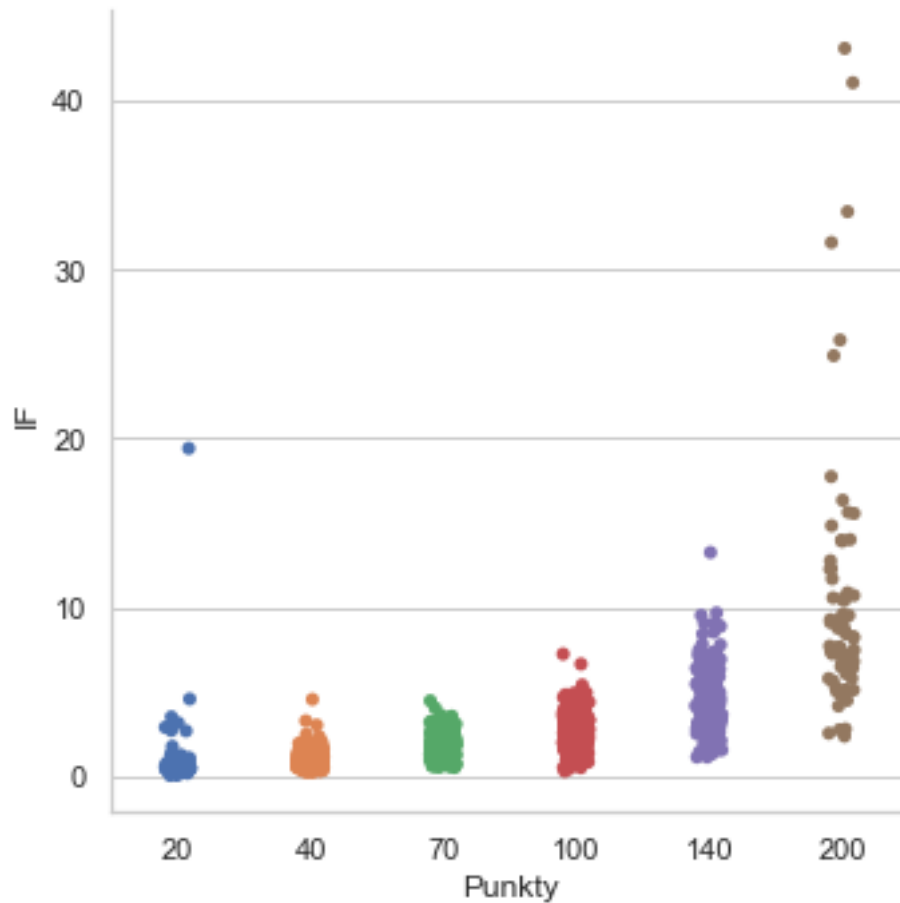
```
Sumaryczna liczba czasopism wspólnych dla obu dyscyplin: 810
```

### 1.4 Zwizki punktacji MNISW z IF w dyscyplinie AEE

```python
[37]: 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 w AEE:

```
[80]: dane[dane.AEE].sort_values('IF',ascending=False).loc[:,['Tytu','Punkty','IF']].
 ↪head(20)
```

[80]:                                                              Tytu Punkty  \
      Numer z listy MNISW
      14801                                                      NATURE    200
```

| | | |
|---|---|---:|
| 18197 | SCIENCE | 200 |
| 14826 | Nature Nanotechnology | 200 |
| 14828 | Nature Photonics | 200 |
| 430 | ADVANCED MATERIALS | 200 |
| 424 | Advanced Energy Materials | 200 |
| 18241 | Science Robotics | 20 |
| 8005 | IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACH... | 200 |
| 133 | ACS Energy Letters | 200 |
| 427 | ADVANCED FUNCTIONAL MATERIALS | 200 |
| 14731 | Nano Energy | 200 |
| 19142 | SURFACE SCIENCE REPORTS | 200 |
| 13641 | Light-Science & Applications | 200 |
| 526 | Advances in Optics and Photonics | 200 |
| 137 | ACS Nano | 200 |
| 7893 | IEEE Industrial Electronics Magazine | 140 |
| 1504 | Applied Physics Reviews | 200 |
| 14733 | NANO LETTERS | 200 |
| 20915 | Annual Review of Biomedical Engineering | 200 |
| 8001 | IEEE Transactions on Neural Networks and Learn... | 200 |

| | IF |
|---|---|
| Numer z listy MNISW | |
| 14801 | 43.070 |
| 18197 | 41.037 |
| 14826 | 33.407 |
| 14828 | 31.583 |
| 430 | 25.809 |
| 424 | 24.884 |
| 18241 | 19.400 |
| 8005 | 17.730 |
| 133 | 16.331 |
| 427 | 15.621 |
| 14731 | 15.548 |
| 19142 | 14.824 |
| 13641 | 14.000 |
| 526 | 13.963 |
| 137 | 13.903 |
| 7893 | 13.241 |
| 1504 | 12.750 |
| 14733 | 12.279 |
| 20915 | 12.257 |
| 8001 | 11.683 |

### 1.4.2 Czasopisma z IEEE dla AEE

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

[85]:

| | Tytu | Punkty |
|---|---|---|
| Numer z listy MNISW | | |
| 8005 | IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACH... | 200 |
| 8001 | IEEE Transactions on Neural Networks and Learn... | 200 |
| 16512 | PROCEEDINGS OF THE IEEE | 200 |
| 8017 | IEEE Transactions on Smart Grid | 200 |
| 7966 | IEEE Transactions on Cybernetics | 200 |
| 7899 | IEEE Internet of Things Journal | 200 |
| 7977 | IEEE TRANSACTIONS ON FUZZY SYSTEMS | 200 |
| 7976 | IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION | 200 |
| 8019 | IEEE Transactions on Sustainable Energy | 200 |
| 7934 | IEEE SIGNAL PROCESSING MAGAZINE | 200 |
| 7982 | IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS | 200 |
| 7983 | IEEE Transactions on Industrial Informatics | 200 |
| 8008 | IEEE TRANSACTIONS ON POWER ELECTRONICS | 200 |
| 8009 | IEEE TRANSACTIONS ON POWER SYSTEMS | 200 |
| 7981 | IEEE TRANSACTIONS ON IMAGE PROCESSING | 200 |
| 7907 | IEEE Journal of Selected Topics in Signal Proc... | 200 |
| 8012 | IEEE Transactions on Robotics | 200 |
| 7978 | IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SEN... | 200 |
| 8022 | IEEE Transactions on Transportation Electrific... | 200 |
| 7944 | IEEE TRANSACTIONS ON AUTOMATIC CONTROL | 200 |
| 7930 | IEEE Robotics and Automation Letters | 200 |
| 7893 | IEEE Industrial Electronics Magazine | 140 |
| 7892 | IEEE Geoscience and Remote Sensing Magazine | 140 |
| 7992 | IEEE TRANSACTIONS ON MEDICAL IMAGING | 140 |
| 8020 | IEEE Transactions on Systems Man Cybernetics-S... | 140 |
| 7941 | IEEE Transactions on Affective Computing | 140 |
| 7885 | IEEE CONTROL SYSTEMS MAGAZINE | 140 |
| 8028 | IEEE Vehicular Technology Magazine | 140 |
| 7901 | IEEE Journal of Emerging and Selected Topics i... | 140 |
| 7881 | IEEE Computational Intelligence Magazine | 140 |
| 7988 | IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATIO... | 140 |
| 7956 | IEEE TRANSACTIONS ON COMMUNICATIONS | 140 |
| 7995 | IEEE TRANSACTIONS ON MULTIMEDIA | 140 |
| 7965 | IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY | 140 |
| 8024 | IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY | 140 |
| 8016 | IEEE TRANSACTIONS ON SIGNAL PROCESSING | 140 |
| 7945 | IEEE Transactions on Automation Science and En... | 140 |
| 7908 | IEEE JOURNAL OF SOLID-STATE CIRCUITS | 140 |
| 8034 | IEEE-ASME TRANSACTIONS ON MECHATRONICS | 140 |

```
7927                                                    IEEE Pulse         20
7888                                    IEEE Electrification Magazine      20
7912              IEEE Journal on Exploratory Solid-State Comput...        20
7920                                    IEEE Nanotechnology Magazine       20
7938                          IEEE Systems Man and Cybernetics Magazine    20
22889                    IEEE International Conference on Rehabilitatio... 20
```

```python
[71]: print('Czasopisma z IEEE dla AEE: '+str(sum(IEEE.AEE)))
      print('Czasopisma z IEEE dla ITT: '+str(sum(IEEE.ITT)))
```

```
Czasopisma z IEEE dla AEE: 139
Czasopisma z IEEE dla ITT: 94
```

## 1.5 Czasopisma z MDPI dla AEE

```python
[87]: MDPI=pd.read_csv('../Analysis Data/MDPI_journals.csv')

      MDPI_filter=((dane.issn.isin(MDPI.ISSN)) | (dane['e-issn'].isin(MDPI.ISSN)))

      MDPI_table=dane[MDPI_filter].sort_values(['Punkty','IF'],ascending=False)
      MDPI_table[MDPI_table.AEE].loc[:,['Tytu','Punkty']]
```

```
[87]:                                                       Tytu Punkty
      Numer z listy MNISW
      17163                                        Remote Sensing     100
      18379                                               SENSORS     100
      5672                                               Energies     100
      5580                                            Electronics     100
      14742                                          Nanomaterials      70
      14348                                          Micromachines      70
      1518                                   Applied Sciences-Basel      70
      19200                                          Symmetry-Basel      70
      558                                                Aerospace      70
      6558                                                  Fibers      70
      16046                                               Photonics      70
      786                                                Algorithms      40
      367                                                 Actuators      20
      11396                                       Journal of Imaging      20
      12609                     Journal of Sensor and Actuator Networks     20
      17976                                                 Robotics      20
      24165           Journal of Low Power Electronics and Applications    20
      27111                             World Electric Vehicle Journal    20
```

```python
[74]: print('Czasopisma z MDPI dla AEE: '+str(sum(MDPI_table.AEE)))
      print('Czasopisma z MDPI dla ITT: '+str(sum(MDPI_table.ITT)))
```

```
Czasopisma z MDPI dla AEE: 18
Czasopisma z MDPI dla ITT: 22
```

## 1.6 Czasopisma z Elseviera dla AEE

```
[78]: elsevier=pd.read_csv('../Analysis Data/elsevier_journals.csv')
      elsevier_filter=((dane.issn.isin(elsevier.ISSN)) | (dane['e-issn'].
      ↪isin(elsevier.ISSN)))
```

```
[89]: pd.set_option('display.max_rows', 500)
      elsevier_table=dane[elsevier_filter].
      ↪sort_values(['Punkty','IF'],ascending=False)
      elsevier_table[elsevier_table.AEE].loc[:,['Tytu','Punkty']]
```

[89]:

| Numer z listy MNISW | Tytu | Punkty |
|---|---|---|
| 14731 | Nano Energy | 200 |
| 19142 | SURFACE SCIENCE REPORTS | 200 |
| 17178 | RENEWABLE & SUSTAINABLE ENERGY REVIEWS | 200 |
| 16630 | PROGRESS IN SURFACE SCIENCE | 200 |
| 1463 | APPLIED ENERGY | 200 |
| 473 | ADVANCES IN COLLOID AND INTERFACE SCIENCE | 200 |
| 17166 | REMOTE SENSING OF ENVIRONMENT | 200 |
| 5679 | ENERGY CONVERSION AND MANAGEMENT | 200 |
| 16588 | PROGRESS IN AEROSPACE SCIENCES | 200 |
| 2193 | AUTOMATICA | 200 |
| 14918 | NEURAL NETWORKS | 200 |
| 19739 | TRANSPORTATION RESEARCH PART C-EMERGING TECHNO... | 200 |
| 16624 | PROGRESS IN QUANTUM ELECTRONICS | 200 |
| 13328 | KNOWLEDGE-BASED SYSTEMS | 200 |
| 14091 | MECHANICAL SYSTEMS AND SIGNAL PROCESSING | 200 |
| 1519 | APPLIED SOFT COMPUTING | 200 |
| 4236 | COMPUTER METHODS IN APPLIED MECHANICS AND ENGI... | 200 |
| 1817 | ARTIFICIAL INTELLIGENCE | 200 |
| 5680 | ENERGY ECONOMICS | 200 |
| 14076 | MEASUREMENT | 200 |
| 2540 | BIOSENSORS & BIOELECTRONICS | 140 |
| 14142 | MEDICAL IMAGE ANALYSIS | 140 |
| 16612 | PROGRESS IN NUCLEAR MAGNETIC RESONANCE SPECTRO... | 140 |
| 4775 | CURRENT OPINION IN SOLID STATE & MATERIALS SCI... | 140 |
| 12379 | JOURNAL OF POWER SOURCES | 140 |
| 3245 | CARBON | 140 |
| 19933 | ULTRASONICS SONOCHEMISTRY | 140 |
| 391 | Additive Manufacturing | 140 |
| 18381 | SENSORS AND ACTUATORS B-CHEMICAL | 140 |
| 19185 | Swarm and Evolutionary Computation | 140 |
| 18684 | SOLAR ENERGY MATERIALS AND SOLAR CELLS | 140 |
| 15781 | PATTERN RECOGNITION | 140 |
| 17180 | RENEWABLE ENERGY | 140 |
| 15116 | Nonlinear Analysis-Hybrid Systems | 140 |
| 16035 | Photoacoustics | 140 |

| | | |
|---|---|---|
| 1525 | APPLIED SURFACE SCIENCE | 140 |
| 13986 | Materials Science & Engineering C-Materials fo... | 140 |
| 8616 | International Journal of Applied Earth Observa... | 140 |
| 18683 | SOLAR ENERGY | 140 |
| 5677 | ENERGY AND BUILDINGS | 140 |
| 17978 | ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING | 140 |
| 9707 | ISA TRANSACTIONS | 140 |
| 2196 | AUTOMATION IN CONSTRUCTION | 140 |
| 4275 | COMPUTERS IN HUMAN BEHAVIOR | 140 |
| 6462 | EXPERT SYSTEMS WITH APPLICATIONS | 140 |
| 9115 | INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES | 140 |
| 18469 | SIGNAL PROCESSING | 140 |
| 13988 | MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL... | 140 |
| 15487 | OPTICS AND LASERS IN ENGINEERING | 140 |
| 17135 | RELIABILITY ENGINEERING & SYSTEM SAFETY | 140 |
| 1527 | APPLIED THERMAL ENGINEERING | 140 |
| 4904 | DECISION SUPPORT SYSTEMS | 140 |
| 6226 | EUROPEAN JOURNAL OF OPERATIONAL RESEARCH | 140 |
| 11725 | JOURNAL OF MANUFACTURING SYSTEMS | 140 |
| 14101 | MECHANISM AND MACHINE THEORY | 140 |
| 11723 | Journal of Manufacturing Processes | 140 |
| 4268 | COMPUTERS & STRUCTURES | 140 |
| 12398 | JOURNAL OF PROCESS CONTROL | 140 |
| 4242 | COMPUTER PHYSICS COMMUNICATIONS | 140 |
| 15234 | NUCLEAR PHYSICS B | 140 |
| 12674 | JOURNAL OF SOUND AND VIBRATION | 140 |
| 4255 | COMPUTER-AIDED DESIGN | 140 |
| 17977 | ROBOTICS AND AUTONOMOUS SYSTEMS | 140 |
| 6944 | FUZZY SETS AND SYSTEMS | 140 |
| 4265 | COMPUTERS & MATHEMATICS WITH APPLICATIONS | 140 |
| 16451 | PRECISION ENGINEERING-JOURNAL OF THE INTERNATI... | 140 |
| 19929 | ULTRAMICROSCOPY | 140 |
| 19932 | ULTRASONICS | 140 |
| 6952 | GAIT & POSTURE | 140 |
| 6152 | EUROPEAN JOURNAL OF CONTROL | 140 |
| 19241 | TALANTA | 100 |
| 1323 | ANNUAL REVIEWS IN CONTROL | 100 |
| 11909 | JOURNAL OF MOLECULAR LIQUIDS | 100 |
| 8843 | INTERNATIONAL JOURNAL OF ELECTRICAL POWER & EN... | 100 |
| 10082 | JOURNAL OF ALLOYS AND COMPOUNDS | 100 |
| 14932 | NEUROCOMPUTING | 100 |
| 4093 | Communications in Nonlinear Science and Numeri... | 100 |
| 12888 | JOURNAL OF THE ENERGY INSTITUTE | 100 |
| 12900 | JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING ... | 100 |
| 1819 | ARTIFICIAL INTELLIGENCE IN MEDICINE | 100 |
| 5707 | ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLI... | 100 |
| 10946 | Journal of Energy Storage | 100 |

| | | |
|---|---|---|
| 13989 | Materials Science and Engineering B-Advanced F... | 100 |
| 15528 | ORGANIC ELECTRONICS | 100 |
| 374 | Ad Hoc Networks | 100 |
| 10099 | JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS | 100 |
| 13981 | MATERIALS RESEARCH BULLETIN | 100 |
| 15486 | OPTICS AND LASER TECHNOLOGY | 100 |
| 4256 | COMPUTERIZED MEDICAL IMAGING AND GRAPHICS | 100 |
| 4408 | CONTROL ENGINEERING PRACTICE | 100 |
| 19134 | SURFACE & COATINGS TECHNOLOGY | 100 |
| 19178 | Sustainable Energy Grids & Networks | 100 |
| 4270 | COMPUTERS AND ELECTRONICS IN AGRICULTURE | 100 |
| 18833 | SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY | 100 |
| 1481 | APPLIED MATHEMATICS AND COMPUTATION | 100 |
| 5542 | ELECTRIC POWER SYSTEMS RESEARCH | 100 |
| 14105 | MECHATRONICS | 100 |
| 2499 | Biomedical Signal Processing and Control | 100 |
| 18832 | SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMO... | 100 |
| 567 | AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND C... | 100 |
| 1480 | APPLIED MATHEMATICAL MODELLING | 100 |
| 562 | AEROSPACE SCIENCE AND TECHNOLOGY | 100 |
| 18470 | SIGNAL PROCESSING-IMAGE COMMUNICATION | 100 |
| 15782 | PATTERN RECOGNITION LETTERS | 100 |
| 5089 | DIGITAL SIGNAL PROCESSING | 100 |
| 9360 | INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES | 100 |
| 15914 | Pervasive and Mobile Computing | 100 |
| 18380 | SENSORS AND ACTUATORS A-PHYSICAL | 100 |
| 11698 | JOURNAL OF MAGNETIC RESONANCE | 100 |
| 11701 | JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS | 100 |
| 4253 | COMPUTER VISION AND IMAGE UNDERSTANDING | 100 |
| 19228 | SYSTEMS & CONTROL LETTERS | 100 |
| 10316 | JOURNAL OF BIOMECHANICS | 100 |
| 10619 | Journal of Computational Science | 100 |
| 157 | ACTA ASTRONAUTICA | 100 |
| 6604 | FINITE ELEMENTS IN ANALYSIS AND DESIGN | 100 |
| 18484 | SIMULATION MODELLING PRACTICE AND THEORY | 100 |
| 3712 | CIRP Journal of Manufacturing Science and Tech... | 100 |
| 1433 | APPLIED ACOUSTICS | 100 |
| 5056 | DIAMOND AND RELATED MATERIALS | 100 |
| 4273 | COMPUTERS IN BIOLOGY AND MEDICINE | 100 |
| 13168 | JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPR... | 100 |
| 5706 | ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS | 100 |
| 9184 | INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS | 100 |
| 13817 | MAGNETIC RESONANCE IMAGING | 100 |
| 15118 | NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS | 100 |
| 18697 | SOLID STATE NUCLEAR MAGNETIC RESONANCE | 100 |
| 8630 | INTERNATIONAL JOURNAL OF APPROXIMATE REASONING | 100 |
| 10604 | JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS | 100 |

| | | |
|---|---|---|
| 12174 | JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING | 100 |
| 10905 | JOURNAL OF ELECTROMYOGRAPHY AND KINESIOLOGY | 100 |
| 18839 | SPEECH COMMUNICATION | 100 |
| 20242 | WAVE MOTION | 100 |
| 15222 | NUCLEAR ENGINEERING AND DESIGN | 100 |
| 14349 | MICRON | 100 |
| 13177 | JOURNAL OF VOICE | 100 |
| 18942 | STOCHASTIC PROCESSES AND THEIR APPLICATIONS | 100 |
| 4563 | CRYOGENICS | 100 |
| 456 | ADVANCES IN APPLIED MATHEMATICS | 100 |
| 13652 | LINEAR ALGEBRA AND ITS APPLICATIONS | 100 |
| 5079 | Digital Communications and Networks | 100 |
| 24325 | Journal of Rail Transport Planning & Management | 100 |
| 16061 | PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCT... | 70 |
| 3450 | CHAOS SOLITONS & FRACTALS | 70 |
| 13977 | MATERIALS LETTERS | 70 |
| 11690 | JOURNAL OF LUMINESCENCE | 70 |
| 8102 | IMAGE AND VISION COMPUTING | 70 |
| 13991 | MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING | 70 |
| 15482 | OPTICAL MATERIALS | 70 |
| 20027 | VACUUM | 70 |
| 4250 | COMPUTER STANDARDS & INTERFACES | 70 |
| 19128 | SUPERLATTICES AND MICROSTRUCTURES | 70 |
| 8350 | INFRARED PHYSICS & TECHNOLOGY | 70 |
| 19936 | ULTRASOUND IN MEDICINE AND BIOLOGY | 70 |
| 4260 | COMPUTERS & ELECTRICAL ENGINEERING | 70 |
| 2396 | Biocybernetics and Biomedical Engineering | 70 |
| 13635 | Life Sciences in Space Research | 70 |
| 4668 | CURRENT APPLIED PHYSICS | 70 |
| 6636 | FLOW MEASUREMENT AND INSTRUMENTATION | 70 |
| 15489 | OPTICS COMMUNICATIONS | 70 |
| 10477 | Journal of Choice Modelling | 70 |
| 19491 | THIN SOLID FILMS | 70 |
| 19141 | SURFACE SCIENCE | 70 |
| 15481 | OPTICAL FIBER TECHNOLOGY | 70 |
| 542 | ADVANCES IN SPACE RESEARCH | 70 |
| 5139 | DISPLAYS | 70 |
| 10914 | JOURNAL OF ELECTROSTATICS | 70 |
| 1493 | APPLIED NUMERICAL MATHEMATICS | 70 |
| 9107 | INTERNATIONAL JOURNAL OF MASS SPECTROMETRY | 70 |
| 14341 | MICROELECTRONIC ENGINEERING | 70 |
| 10728 | JOURNAL OF CRYSTAL GROWTH | 70 |
| 18700 | SOLID-STATE ELECTRONICS | 70 |
| 14344 | MICROELECTRONICS RELIABILITY | 70 |
| 16971 | RADIATION MEASUREMENTS | 70 |
| 15226 | NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEA... | 70 |
| 4225 | COMPUTER AIDED GEOMETRIC DESIGN | 70 |

| | | |
|---|---|---|
| 14044 | MATHEMATICS AND COMPUTERS IN SIMULATION | 70 |
| 10906 | JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED P... | 70 |
| 14343 | MICROELECTRONICS JOURNAL | 70 |
| 15227 | NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEA... | 70 |
| 12774 | JOURNAL OF SYSTEMS ARCHITECTURE | 70 |
| 8425 | INTEGRATION-THE VLSI JOURNAL | 70 |
| 5650 | ENDEAVOUR | 70 |
| 5122 | DISCRETE APPLIED MATHEMATICS | 70 |
| 18907 | STATISTICS & PROBABILITY LETTERS | 70 |
| 5069 | DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS | 70 |
| 16647 | Propulsion and Power Research | 70 |
| 25574 | Physics in Medicine | 70 |
| 26382 | Sensing and Bio-Sensing Research | 70 |
| 16047 | Photonics and Nanostructures-Fundamentals and ... | 40 |
| 15492 | OPTIK | 40 |
| 3994 | Cognitive Systems Research | 40 |
| 3994 | Cognitive Systems Research | 40 |
| 15485 | Optical Switching and Networking | 40 |
| 14353 | MICROPROCESSORS AND MICROSYSTEMS | 40 |
| 9690 | IRBM | 40 |
| 19145 | Surfaces and Interfaces | 40 |
| 19214 | Synthetic and Systems Biotechnology | 40 |
| 25068 | Nano-Structures and Nano-Objects | 40 |
| 15052 | NEW SCIENTIST | 20 |
| 12591 | Journal of Science-Advanced Materials and Devices | 20 |
| 22901 | IFAC-PapersOnLine | 20 |
| 23575 | IRBM News | 20 |
| 23980 | Journal of Electronic Science and Technology | 20 |
| 25354 | OpenNano | 20 |
| 27383 | iScience | 20 |

```
[77]: print('Czasopisma z Elseviera dla AEE: '+str(sum(elsevier_table.AEE)))
      print('Czasopisma z Elseviera dla ITT: '+str(sum(elsevier_table.ITT)))
```

```
Czasopisma z Elseviera dla AEE: 206
Czasopisma z Elseviera dla ITT: 259
```

[ ]: