

EE 460J Lab 5

Team:

Johnson Zhang - xz5993
David Rollins - Der2366
Peter Wagenaar - pjw845

In [19]:

```
!pip install tika
```

```
Collecting tika
  Downloading https://files.pythonhosted.org/packages/96/07/244fbb9c74c0de8a3745
  cc9f3f496077a29f6418c7cbd90d68fd799574cb/tika-1.24.tar.gz
Requirement already satisfied: setuptools in /Users/davidrollins/opt/anaconda3/1
ib/python3.7/site-packages (from tika) (41.4.0)
Requirement already satisfied: requests in /Users/davidrollins/opt/anaconda3/1
ib/python3.7/site-packages (from tika) (2.22.0)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /Users/davidrollins/opt/
anaconda3/lib/python3.7/site-packages (from requests->tika) (3.0.4)
Requirement already satisfied: certifi>=2017.4.17 in /Users/davidrollins/opt/ana
conda3/lib/python3.7/site-packages (from requests->tika) (2019.9.11)
Requirement already satisfied: urllib3!=1.25.0,!!=1.25.1,<1.26,>=1.21.1 in /User
s/davidrollins/opt/anaconda3/lib/python3.7/site-packages (from requests->tika)
(1.24.2)
Requirement already satisfied: idna<2.9,>=2.5 in /Users/davidrollins/opt/anacond
a3/lib/python3.7/site-packages (from requests->tika) (2.8)
Building wheels for collected packages: tika
  Building wheel for tika (setup.py) ... done
    Created wheel for tika: filename=tika-1.24-cp37-none-any.whl size=32884 sha256
=069256ecab7c2ecb8496bcb4cb962b34329f6be1400b08e5c6600a6c03e34f78
    Stored in directory: /Users/davidrollins/Library/Caches/pip/wheels/73/9c/f5/0b
1b738442fc2a2862bef95b908b374f8e80215550fb2a8975
Successfully built tika
Installing collected packages: tika
Successfully installed tika-1.24
```

In [1]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import sklearn
import requests
from bs4 import BeautifulSoup
from collections import Counter
import io
import re
import math
from tika import parser
import random
from random import choices
import operator
from sklearn import linear_model
```

```
ModuleNotFoundError                                     Traceback (most recent call last)
<ipython-input-1-2f7ee4f97d11> in <module>
      9     import re
     10    import math
--> 11   from tika import parser
     12   import random
     13   from random import choices

ModuleNotFoundError: No module named 'tika'
```

Problem 1

Read Shannon's 1948 paper 'A Mathematical Theory of Communication'. Focus on pages 1-19 (upto Part II), the remaining part is more relevant for communication.

<http://math.harvard.edu/~ctm/home/text/others/shannon/entropy/entropy.pdf>

This paper explores the field of communication theory, and in particular, how noise in the channel affects communication and how to remedy this with message compression. Shannon explores three different systems for this problem: discrete, mixed, and continuous.

Discrete systems are systems in which both the message and the signal are a sequence of discrete symbols. Continuous Systems are systems in which the message and signal are both treated as continuous functions. And mixed systems are systems in which both discrete and continuous variables appear.

Shannon starts by explaining the necessary components of a communication system and the process in which a message is sent and received.

First, an information source produces a message to be communicated to the receiver. Next, the transmitter operates on the message to produce a signal to transmit over a channel. The channel is the medium used to transmit the signal from transmitter to receiver. Then, the receiver performs the inverse operation of that done by the transmitter to reconstruct the message from the signal.

Then, Shannon lays out the theoretical solutions to compress messages with a noiseless example and then looks into examples with noise.

In order to analyze message/signal transmission through a channel, Shannon introduced a way to measure how much information is in a message, also known as entropy.

One important discovery was that if the amount of information transmitted (the entropy rate) is more than a channel's capacity, then errors would occur during transmission. But if the entropy rate is less than a channel's capacity, there exists a way to encode the message without errors.

He does this by finding the length of a codeword then encoding a "prefix" with those lengths.

Problem 2:

Scraping, Entropy and ICML papers.ICML

The International Conference on Machine Learning – is a top research conference in Machinelearning.

Scrape all the pdfs of all ICML 2020 papers from <http://proceedings.mlr.press/v119/>

1. What are the top 10 common words in the ICML papers?
2. Let Z be a randomly selected word in a randomly selected ICML paper. Estimate the entropy of Z .
3. Synthesize a random paragraph using the marginal distribution over words.
4. (Optional) Synthesize a random paragraph using an n-gram model on words. Synthesize a random paragraph using any model you want. Top five synthesized text paragraphs

winbonus!

```
In [165...]
url = "http://proceedings.mlr.press/v97/"
r = requests.get(url)
soup = BeautifulSoup(r.content, 'html5lib')
#print(soup.prettify()) -- too long

preamble = "http://proceedings.mlr.press/v97/"
papers = []

for elm in soup.find_all(attrs={"target": "_blank"}): # soup() is equivalent to
    href = elm["href"]

    if preamble in href and "supp.pdf" not in href:
        papers.append(href)

#print(papers)

words = []
for pdf in papers: #:10: # remove [:10] in final version - takes a long time
    content = parser.from_file(pdf)[ "content"]
    words += re.sub("[^\w]", " ", content).split()

count = {}
for word in words:
    if word.lower() not in count:
        count[word.lower()] = 1
    else:
        count[word.lower()] += 1

def find_highest(count):
    max_key = max(count.items(), key=operator.itemgetter(1))[0]
    count.pop(max_key, None)
    return max_key

top30_words = []
for i in range(0,30):
    top30_words.append(find_highest(count))

uninteresting_words = ['the',
    'and',
    'of',
    'a',
    'to',
    'in',
    'for',
    'o',
    'is',
    'we',
    'l',
    't',
    'on',
```

```

'by',
'as',
's',
'this',
'are',
'with',
'2',
'that',
'be',
'et',
'from',
'al',
'3',
'can',
'an',
'cn',
'w',
'it',
'g','e','o','our','der','at','z','q','x','m','http','org','4','d','j','y','c

top10_words = []
while(len(top10_words) < 10):

    word = find_highest(count)

    if word in uninteresting_words:
        continue
    else:
        top10_words.append(word)

print("Top 10 words:")
print(top10_words)

```

2021-03-09 12:29:20,675 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/abba19a/abba19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
000gq/T/v97-abba19a-abba19a.pdf.

2021-03-09 12:29:21,846 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/abels19a/abels19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-abels19a-abels19a.pdf.

2021-03-09 12:29:24,006 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/abu-el-haija19a/abu-el-haija19a.pdf to /var/folders/c/_ns1rsjk10x1cs
zkmwj6_9w40000gq/T/v97-abu-el-haija19a-abu-el-haija19a.pdf.

2021-03-09 12:29:24,773 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/acharya19a/acharya19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-acharya19a-acharya19a.pdf.

2021-03-09 12:29:25,734 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/acharya19b/acharya19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-acharya19b-acharya19b.pdf.

2021-03-09 12:29:26,674 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/acharya19c/acharya19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-acharya19c-acharya19c.pdf.

2021-03-09 12:29:27,299 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/adams19a/adams19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-adams19a-adams19a.pdf.

2021-03-09 12:29:29,288 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/adel19a/adel19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-adel19a-adel19a.pdf.

2021-03-09 12:29:31,638 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/adiga19a/adiga19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-adiga19a-adiga19a.pdf.

2021-03-09 12:29:32,390 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/agarwal19a/agarwal19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-agarwal19a-agarwal19a.pdf.

2021-03-09 12:29:33,177 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/agarwal19b/agarwal19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-agarwal19b-agarwal19b.pdf.

2021-03-09 12:29:34,240 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/agarwal19c/agarwal19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-agarwal19c-agarwal19c.pdf.

2021-03-09 12:29:34,498 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/agarwal19d/agarwal19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-agarwal19d-agarwal19d.pdf.

2021-03-09 12:29:35,143 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/agarwal19e/agarwal19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-agarwal19e-agarwal19e.pdf.

2021-03-09 12:29:35,629 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/agrawal19a/agrawal19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-agrawal19a-agrawal19a.pdf.

2021-03-09 12:29:36,429 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ahmed19a/ahmed19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-ahmed19a-ahmed19a.pdf.

2021-03-09 12:29:37,194 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/aivodji19a/aivodji19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-aivodji19a-aivodji19a.pdf.

2021-03-09 12:29:37,694 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/akimoto19a/akimoto19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-akimoto19a-akimoto19a.pdf.

2021-03-09 12:29:38,286 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/akrour19a/akrour19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
000gq/T/v97-akrour19a-akrour19a.pdf.

2021-03-09 12:29:39,588 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/alaa19a/alaa19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-alaa19a-alaa19a.pdf.

2021-03-09 12:29:40,315 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/albuquerque19a/albuquerque19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
mwzj6_9w40000gq/T/v97-albuquerque19a-albuquerque19a.pdf.

2021-03-09 12:29:41,511 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/alet19a/alet19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-alet19a-alet19a.pdf.

2021-03-09 12:29:44,275 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/allen19a/allen19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-allen19a-allen19a.pdf.

2021-03-09 12:29:44,934 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/allen19b/allen19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-allen19b-allen19b.pdf.

2021-03-09 12:29:45,457 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/allen-zhu19a/allen-zhu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj
6_9w40000gq/T/v97-allen-zhu19a-allen-zhu19a.pdf.

2021-03-09 12:29:46,318 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/alvi19a/alvi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-alvi19a-alvi19a.pdf.

2021-03-09 12:29:49,764 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/amin19a/amin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-amin19a-amin19a.pdf.

2021-03-09 12:29:50,582 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ancona19a/ancona19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
000gq/T/v97-ancona19a-ancona19a.pdf.

2021-03-09 12:29:51,039 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/anderton19a/anderton19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-anderton19a-anderton19a.pdf.

2021-03-09 12:29:52,511 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/anil19a/anil19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-anil19a-anil19a.pdf.

2021-03-09 12:29:53,756 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/antelmi19a/antelmi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-antelmi19a-antelmi19a.pdf.

40000gq/T/v97-antelmi19a-antelmi19a.pdf.
 2021-03-09 12:29:54,591 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/arazo19a/arazo19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
 0gq/T/v97-arazo19a-arazo19a.pdf.
 2021-03-09 12:29:57,639 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/arora19a/arora19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
 0gq/T/v97-arora19a-arora19a.pdf.
 2021-03-09 12:29:58,501 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/assadi19a/assadi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
 000gq/T/v97-assadi19a-assadi19a.pdf.
 2021-03-09 12:29:58,976 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/assran19a/assran19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
 000gq/T/v97-assran19a-assran19a.pdf.
 2021-03-09 12:29:59,422 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/astudillo19a/astudillo19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-astudillo19a-astudillo19a.pdf.
 2021-03-09 12:30:02,073 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/atasu19a/atasu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
 0gq/T/v97-atasu19a-atasu19a.pdf.
 2021-03-09 12:30:02,706 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/awan19a/awan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
 q/T/v97-awan19a-awan19a.pdf.
 2021-03-09 12:30:03,394 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/aydore19a/aydore19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
 000gq/T/v97-aydore19a-aydore19a.pdf.
 2021-03-09 12:30:04,748 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/ayed19a/ayed19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
 q/T/v97-ayed19a-ayed19a.pdf.
 2021-03-09 12:30:05,520 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/backurs19a/backurs19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
 40000gq/T/v97-backurs19a-backurs19a.pdf.
 2021-03-09 12:30:06,669 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/balaji19a/balaji19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
 000gq/T/v97-balaji19a-balaji19a.pdf.
 2021-03-09 12:30:07,511 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/balcan19a/balcan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
 000gq/T/v97-balcan19a-balcan19a.pdf.
 2021-03-09 12:30:08,306 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/balduzzi19a/balduzzi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-balduzzi19a-balduzzi19a.pdf.
 2021-03-09 12:30:08,926 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/balin19a/balin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
 0gq/T/v97-balin19a-balin19a.pdf.
 2021-03-09 12:30:09,566 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/bansal19a/bansal19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
 000gq/T/v97-bansal19a-bansal19a.pdf.
 2021-03-09 12:30:09,836 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/bapst19a/bapst19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
 0gq/T/v97-bapst19a-bapst19a.pdf.
 2021-03-09 12:30:10,477 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/baranchuk19a/baranchuk19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-baranchuk19a-baranchuk19a.pdf.
 2021-03-09 12:30:11,109 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/barros19a/barros19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
 000gq/T/v97-barros19a-barros19a.pdf.
 2021-03-09 12:30:12,013 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/bartlett19a/bartlett19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-bartlett19a-bartlett19a.pdf.
 2021-03-09 12:30:12,477 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/basu19a/basu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
 q/T/v97-basu19a-basu19a.pdf.
 2021-03-09 12:30:13,042 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/bateni19a/bateni19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
 000gq/T/v97-bateni19a-bateni19a.pdf.
 2021-03-09 12:30:13,500 [MainThread] [INFO] Retrieving http://proceedings.ml

```
r.press/v97/batson19a/batson19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-batson19a-batson19a.pdf.
2021-03-09 12:30:15,820 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/beatson19a/beatson19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-beatson19a-beatson19a.pdf.
2021-03-09 12:30:17,113 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/becker19a/becker19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-becker19a-becker19a.pdf.
2021-03-09 12:30:17,646 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/becker-ehmck19a/becker-ehmck19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-becker-ehmck19a-becker-ehmck19a.pdf.
2021-03-09 12:30:18,431 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/behpour19a/behpour19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-behpour19a-behpour19a.pdf.
2021-03-09 12:30:19,864 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/behrmann19a/behrmann19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-behrmann19a-behrmann19a.pdf.
2021-03-09 12:30:20,697 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/belilovsky19a/belilovsky19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-belilovsky19a-belilovsky19a.pdf.
2021-03-09 12:30:21,315 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/benyahia19a/benyahia19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-benyahia19a-benyahia19a.pdf.
2021-03-09 12:30:22,351 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/benzing19a/benzing19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-benzing19a-benzing19a.pdf.
2021-03-09 12:30:23,642 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/bertran19a/bertran19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-bertran19a-bertran19a.pdf.
2021-03-09 12:30:25,288 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/beygelzimer19a/beygelzimer19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-beygelzimer19a-beygelzimer19a.pdf.
2021-03-09 12:30:25,692 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/bhagoji19a/bhagoji19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-bhagoji19a-bhagoji19a.pdf.
2021-03-09 12:30:26,703 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/bian19a/bian19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-bian19a-bian19a.pdf.
2021-03-09 12:30:27,741 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/bibaut19a/bibaut19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-bibaut19a-bibaut19a.pdf.
2021-03-09 12:30:28,430 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/bietti19a/bietti19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-bietti19a-bietti19a.pdf.
2021-03-09 12:30:28,945 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/blau19a/blau19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-blau19a-blau19a.pdf.
2021-03-09 12:30:30,098 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/boda19a/boda19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-boda19a-boda19a.pdf.
2021-03-09 12:30:30,494 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/bojchevski19a/bojchevski19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-bojchevski19a-bojchevski19a.pdf.
2021-03-09 12:30:31,352 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/borsos19a/borsos19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-borsos19a-borsos19a.pdf.
2021-03-09 12:30:40,878 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/bose19a/bose19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-bose19a-bose19a.pdf.
2021-03-09 12:30:41,286 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/bouthillier19a/bouthillier19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-bouthillier19a-bouthillier19a.pdf.
2021-03-09 12:30:42,710 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/braun19a/braun19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-braun19a-braun19a.pdf.
```

2021-03-09 12:30:43,666 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;braverman19a;braverman19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-braverman19a-braverman19a.pdf.

2021-03-09 12:30:44,483 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;bregere19a;bregere19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-bregere19a-bregere19a.pdf.

2021-03-09 12:30:47,049 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/bridges19a/bridges19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-bridges19a-bridges19a.pdf.

2021-03-09 12:30:52,119 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/brookes19a/brookes19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-brookes19a-brookes19a.pdf.

2021-03-09 12:30:53,554 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/brown19a/brown19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-brown19a-brown19a.pdf.

2021-03-09 12:30:54,356 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/brown19b/brown19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-brown19b-brown19b.pdf.

2021-03-09 12:30:56,032 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;brunet19a;brunet19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-brunet19a-brunet19a.pdf.

2021-03-09 12:30:56,457 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;brutzkus19a;brutzkus19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-brutzkus19a-brutzkus19a.pdf.

2021-03-09 12:30:56,823 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;brutzkus19b;brutzkus19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-brutzkus19b-brutzkus19b.pdf.

2021-03-09 12:30:57,368 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;bubeck19a;bubeck19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-bubeck19a-bubeck19a.pdf.

2021-03-09 12:30:57,928 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;buchnik19a;buchnik19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-buchnik19a-buchnik19a.pdf.

2021-03-09 12:30:59,607 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;bunne19a;bunne19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-bunne19a-bunne19a.pdf.

2021-03-09 12:31:01,968 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;burt19a;burt19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-burt19a-burt19a.pdf.

2021-03-09 12:31:02,677 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;byrd19a;byrd19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-byrd19a-byrd19a.pdf.

2021-03-09 12:31:05,279 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;ca19a;ca19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-ca19a-ca19a.pdf.

2021-03-09 12:31:05,936 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;can19a;can19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-can19a-can19a.pdf.

2021-03-09 12:31:06,363 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;canal19a;canal19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-canal19a-canal19a.pdf.

2021-03-09 12:31:08,257 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;cao19a;cao19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-cao19a-cao19a.pdf.

2021-03-09 12:31:08,837 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;cardoso19a;cardoso19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-cardoso19a-cardoso19a.pdf.

2021-03-09 12:31:09,267 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;chai19a;chai19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-chai19a-chai19a.pdf.

2021-03-09 12:31:09,688 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;chandak19a;chandak19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-chandak19a-chandak19a.pdf.

2021-03-09 12:31:10,161 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97;chang19a;chang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj_6_9w40000gq/T/v97-chang19a-chang19a.pdf.

0gq/T/v97-chang19a-chang19a.pdf.

2021-03-09 12:31:11,556 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/charoenphakdee19a/charoenphakdee19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chareonphakdee19a-charoenphakdee19a.pdf.

2021-03-09 12:31:11,977 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chatterji19a/chatterji19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chatterji19a-chatterji19a.pdf.

2021-03-09 12:31:22,233 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chattopadhyay19a/chattopadhyay19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chattopadhyay19a-chattopadhyay19a.pdf.

2021-03-09 12:31:24,652 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chaudhuri19a/chaudhuri19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chaudhuri19a-chaudhuri19a.pdf.

2021-03-09 12:31:25,236 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19a/chen19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19a-chen19a.pdf.

2021-03-09 12:31:27,188 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19b/chen19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19b-chen19b.pdf.

2021-03-09 12:31:28,631 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19c/chen19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19c-chen19c.pdf.

2021-03-09 12:31:31,647 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19d/chen19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19d-chen19d.pdf.

2021-03-09 12:31:31,985 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19e/chen19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19e-chen19e.pdf.

2021-03-09 12:31:32,501 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19f/chen19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19f-chen19f.pdf.

2021-03-09 12:31:33,613 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19g/chen19g.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19g-chen19g.pdf.

2021-03-09 12:31:35,664 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19h/chen19h.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19h-chen19h.pdf.

2021-03-09 12:31:37,057 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19i/chen19i.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19i-chen19i.pdf.

2021-03-09 12:31:39,416 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19j/chen19j.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19j-chen19j.pdf.

2021-03-09 12:31:39,803 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19k/chen19k.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19k-chen19k.pdf.

2021-03-09 12:31:40,297 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19l/chen19l.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19l-chen19l.pdf.

2021-03-09 12:31:42,330 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19m/chen19m.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19m-chen19m.pdf.

2021-03-09 12:31:42,978 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chen19n/chen19n.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chen19n-chen19n.pdf.

2021-03-09 12:31:43,281 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cheng19a/cheng19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cheng19a-cheng19a.pdf.

2021-03-09 12:31:44,188 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cheng19b/cheng19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cheng19b-cheng19b.pdf.

2021-03-09 12:31:45,107 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/chiquet19a/chiquet19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chiquet19a-chiquet19a.pdf.

2021-03-09 12:31:46,201 [MainThread] [INFO] Retrieving http://proceedings.ml

```
r.press/v97/chitra19a/chitra19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/T/v97-chitra19a-chitra19a.pdf.
2021-03-09 12:31:46,650 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/choi19a/choi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-choi19a-choi19a.pdf.
2021-03-09 12:31:47,443 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/choromanska19a/choromanska19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-choromanska19a-choromanska19a.pdf.
2021-03-09 12:31:48,789 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/choromanski19a/choromanski19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-choromanski19a-choromanski19a.pdf.
2021-03-09 12:31:49,658 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/chu19a/chu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chu19a-chu19a.pdf.
2021-03-09 12:31:50,110 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/chu19b/chu19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chu19b-chu19b.pdf.
2021-03-09 12:31:50,477 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/chung19a/chung19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-chung19a-chung19a.pdf.
2021-03-09 12:31:50,941 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cicalese19a/cicalese19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cicalese19a-cicalese19a.pdf.
2021-03-09 12:31:51,280 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cinelli19a/cinelli19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cinelli19a-cinelli19a.pdf.
2021-03-09 12:31:51,573 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/clarkson19a/clarkson19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-clarkson19a-clarkson19a.pdf.
2021-03-09 12:31:52,095 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/clemencon19a/clemencon19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-clemencon19a-clemencon19a.pdf.
2021-03-09 12:31:52,396 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cobbe19a/cobbe19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cobbe19a-cobbe19a.pdf.
2021-03-09 12:31:55,574 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cohen19a/cohen19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cohen19a-cohen19a.pdf.
2021-03-09 12:31:56,091 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cohen19b/cohen19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cohen19b-cohen19b.pdf.
2021-03-09 12:31:56,477 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cohen19c/cohen19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cohen19c-cohen19c.pdf.
2021-03-09 12:31:59,029 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cohen19d/cohen19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cohen19d-cohen19d.pdf.
2021-03-09 12:31:59,710 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/colas19a/colas19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-colas19a-colas19a.pdf.
2021-03-09 12:32:01,288 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/collobert19a/collobert19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-collobert19a-collobert19a.pdf.
2021-03-09 12:32:01,584 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cornish19a/cornish19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cornish19a-cornish19a.pdf.
2021-03-09 12:32:02,184 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/correal19a/correal19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-correal19a-correal19a.pdf.
2021-03-09 12:32:02,532 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cortes19a/cortes19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cortes19a-cortes19a.pdf.
2021-03-09 12:32:03,320 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/cortes19b/cortes19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-cortes19b-cortes19b.pdf.
```

2021-03-09 12:32:03,815 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cotter19a/cotter19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-cotter19a-cotter19a.pdf.

2021-03-09 12:32:04,438 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cotter19b/cotter19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-cotter19b-cotter19b.pdf.

2021-03-09 12:32:04,752 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cranko19a/cranko19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-cranko19a-cranko19a.pdf.

2021-03-09 12:32:05,750 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cranko19b/cranko19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-cranko19b-cranko19b.pdf.

2021-03-09 12:32:06,524 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/crawford19a/crawford19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-crawford19a-crawford19a.pdf.

2021-03-09 12:32:07,009 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/creager19a/creager19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-creager19a-creager19a.pdf.

2021-03-09 12:32:07,853 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cutkosky19a/cutkosky19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-cutkosky19a-cutkosky19a.pdf.

2021-03-09 12:32:08,186 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cutkosky19b/cutkosky19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-cutkosky19b-cutkosky19b.pdf.

2021-03-09 12:32:09,074 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cvitkovic19a/cvitkovic19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-cvitkovic19a-cvitkovic19a.pdf.

2021-03-09 12:32:09,531 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/cvitkovic19b/cvitkovic19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-cvitkovic19b-cvitkovic19b.pdf.

2021-03-09 12:32:10,301 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/dadashi19a/dadashi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-dadashi19a-dadashi19a.pdf.

2021-03-09 12:32:12,677 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/dai19a/dai19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-dai19a-dai19a.pdf.

2021-03-09 12:32:13,698 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/dann19a/dann19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-dann19a-dann19a.pdf.

2021-03-09 12:32:14,171 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/dao19a/dao19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-dao19a-dao19a.pdf.

2021-03-09 12:32:14,626 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/dao19b/dao19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-dao19b-dao19b.pdf.

2021-03-09 12:32:15,514 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/das19a/das19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-das19a-das19a.pdf.

2021-03-09 12:32:17,059 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/dasgupta19a/dasgupta19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-dasgupta19a-dasgupta19a.pdf.

2021-03-09 12:32:17,507 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/de-bie19a/de-bie19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-de-bie19a-de-bie19a.pdf.

2021-03-09 12:32:18,436 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/denevi19a/denevi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-denevi19a-denevi19a.pdf.

2021-03-09 12:32:19,102 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/dereli19a/dereli19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-dereli19a-dereli19a.pdf.

2021-03-09 12:32:20,710 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/diaconu19a/diaconu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-diaconu19a-diaconu19a.pdf.

2021-03-09 12:32:22,062 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/diakonikolas19a/diakonikolas19a.pdf to /var/folders/c/_ns1rsjk10x1cs

zkmwzj6_9w40000gq/T/v97-diakonikolas19a-diakonikolas19a.pdf.
 2021-03-09 12:32:22,461 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/ding19a/ding19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
 q/T/v97-ding19a-ding19a.pdf.
 2021-03-09 12:32:23,882 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/ding19b/ding19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
 q/T/v97-ding19b-ding19b.pdf.
 2021-03-09 12:32:35,881 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/doan19a/doan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
 q/T/v97-doan19a-doan19a.pdf.
 2021-03-09 12:32:36,172 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/doerr19a/doerr19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq
 0gq/T/v97-doerr19a-doerr19a.pdf.
 2021-03-09 12:32:36,729 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/dohmatob19a/dohmatob19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-dohmatob19a-dohmatob19a.pdf.
 2021-03-09 12:32:37,203 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/du19a/du19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 du19a-du19a.pdf.
 2021-03-09 12:32:37,802 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/du19b/du19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 du19b-du19b.pdf.
 2021-03-09 12:32:38,321 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/du19c/du19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 du19c-du19c.pdf.
 2021-03-09 12:32:38,673 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/du19d/du19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 du19d-du19d.pdf.
 2021-03-09 12:32:39,725 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/du19e/du19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 du19e-du19e.pdf.
 2021-03-09 12:32:40,682 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/duetting19a/duetting19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 duetting19a-duetting19a.pdf.
 2021-03-09 12:32:41,359 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/dukler19a/dukler19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
 000gq/T/v97-dukler19a-dukler19a.pdf.
 2021-03-09 12:32:42,339 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/duncker19a/duncker19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
 40000gq/T/v97-duncker19a-duncker19a.pdf.
 2021-03-09 12:32:43,854 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/durkan19a/durkan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
 000gq/T/v97-durkan19a-durkan19a.pdf.
 2021-03-09 12:32:45,667 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/dziedzic19a/dziedzic19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 dziedzic19a-dziedzic19a.pdf.
 2021-03-09 12:32:47,254 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/edwards19a/edwards19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 edwards19a-edwards19a.pdf.
 2021-03-09 12:32:48,905 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/eichner19a/eichner19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 eichner19a-eichner19a.pdf.
 2021-03-09 12:32:49,221 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/elfeki19a/elfeki19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
 000gq/T/v97-elfeki19a-elfeki19a.pdf.
 2021-03-09 12:32:49,800 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/elhamifar19a/elhamifar19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 elhamifar19a-elhamifar19a.pdf.
 2021-03-09 12:32:51,026 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/ene19a/ene19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 ene19a-ene19a.pdf.
 2021-03-09 12:32:51,767 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/engstrom19a/engstrom19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-
 engstrom19a-engstrom19a.pdf.
 2021-03-09 12:32:53,833 [MainThread] [INFO] Retrieving http://proceedings.ml

```
r.press/v97/esteves19a/esteves19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-esteves19a-esteves19a.pdf.
2021-03-09 12:32:55,432 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/etmann19a/etmann19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-etmann19a-etmann19a.pdf.
2021-03-09 12:32:59,647 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/fahrbach19a/fahrbach19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-fahrbach19a-fahrbach19a.pdf.
2021-03-09 12:33:00,422 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/fan19a/fan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-fan19a-fan19a.pdf.
2021-03-09 12:33:05,284 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/farina19a/farina19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-farina19a-farina19a.pdf.
2021-03-09 12:33:05,715 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/farina19b/farina19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-farina19b-farina19b.pdf.
2021-03-09 12:33:06,372 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/fatemi19a/fatemi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-fatemi19a-fatemi19a.pdf.
2021-03-09 12:33:07,854 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/feige19a/feige19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-feige19a-feige19a.pdf.
2021-03-09 12:33:09,689 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/feldman19a/feldman19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-feldman19a-feldman19a.pdf.
2021-03-09 12:33:09,997 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/feraud19a/feraud19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-feraud19a-feraud19a.pdf.
2021-03-09 12:33:10,385 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/fercoq19a/fercoq19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-fercoq19a-fercoq19a.pdf.
2021-03-09 12:33:10,755 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/finn19a/finn19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-finn19a-finn19a.pdf.
2021-03-09 12:33:11,496 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/fischer19a/fischer19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-fischer19a-fischer19a.pdf.
2021-03-09 12:33:11,991 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/foerster19a/foerster19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-foerster19a-foerster19a.pdf.
2021-03-09 12:33:12,549 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/fong19a/fong19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-fong19a-fong19a.pdf.
2021-03-09 12:33:13,643 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/franc19a/franc19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-franc19a-franc19a.pdf.
2021-03-09 12:33:14,669 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/franceschi19a/franceschi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-franceschi19a-franceschi19a.pdf.
2021-03-09 12:33:15,919 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/freirich19a/freirich19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-freirich19a-freirich19a.pdf.
2021-03-09 12:33:16,511 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/frerix19a/frerix19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-frerix19a-frerix19a.pdf.
2021-03-09 12:33:17,942 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/frogner19a/frogner19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-frogner19a-frogner19a.pdf.
2021-03-09 12:33:18,763 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/frosst19a/frosst19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-frosst19a-frosst19a.pdf.
2021-03-09 12:33:19,165 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/fu19a/fu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-fu19a-fu19a.pdf.
```

2021-03-09 12:33:20,215 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/fu19b/fu19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-fu19b-fu19b.pdf.

2021-03-09 12:33:21,630 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/fujii19a/fujii19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-fujii19a-fujii19a.pdf.

2021-03-09 12:33:22,812 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/fujimoto19a/fujimoto19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-fujimoto19a-fujimoto19a.pdf.

2021-03-09 12:33:23,571 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/gamrian19a/gamrian19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-gamrian19a-gamrian19a.pdf.

2021-03-09 12:33:24,190 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ganea19a/ganea19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-ganea19a-ganea19a.pdf.

2021-03-09 12:33:25,729 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/gao19a/gao19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-gao19a-gao19a.pdf.

2021-03-09 12:33:26,079 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/gao19b/gao19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-gao19b-gao19b.pdf.

2021-03-09 12:33:27,164 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/gao19c/gao19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-gao19c-gao19c.pdf.

2021-03-09 12:33:27,611 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/gao19d/gao19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-gao19d-gao19d.pdf.

2021-03-09 12:33:28,062 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/gao19e/gao19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-gao19e-gao19e.pdf.

2021-03-09 12:33:28,863 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/gao19f/gao19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-gao19f-gao19f.pdf.

2021-03-09 12:33:29,390 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/gazagnadou19a/gazagnadou19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmw
zj6_9w40000gq/T/v97-gazagnadou19a-gazagnadou19a.pdf.

2021-03-09 12:33:30,703 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/geifman19a/geifman19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-geifman19a-geifman19a.pdf.

2021-03-09 12:33:31,116 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/geist19a/geist19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-geist19a-geist19a.pdf.

2021-03-09 12:33:31,496 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/gelada19a/gelada19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-gelada19a-gelada19a.pdf.

2021-03-09 12:33:32,342 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/geng19a/geng19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-geng19a-geng19a.pdf.

2021-03-09 12:33:33,138 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ghadikolaei19a/ghadikolaei19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
mwzj6_9w40000gq/T/v97-ghadikolaei19a-ghadikolaei19a.pdf.

2021-03-09 12:33:33,564 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ghaffari19a/ghaffari19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-ghaffari19a-ghaffari19a.pdf.

2021-03-09 12:33:34,092 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ghazi19a/ghazi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-ghazi19a-ghazi19a.pdf.

2021-03-09 12:33:34,370 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ghorbani19a/ghorbani19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-ghorbani19a-ghorbani19a.pdf.

2021-03-09 12:33:35,035 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ghorbani19b/ghorbani19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-ghorbani19b-ghorbani19b.pdf.

2021-03-09 12:33:35,658 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ghorbani19c/ghorbani19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_

9w40000gq/T/v97-ghorbani19c-ghorbani19c.pdf.
 2021-03-09 12:33:36,610 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gilboa19a/gilboa19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-gilboa19a-gilboa19a.pdf.
 2021-03-09 12:33:37,495 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gillenwater19a/gillenwater19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gillenwater19a-gillenwater19a.pdf.
 2021-03-09 12:33:37,877 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gillick19a/gillick19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gillick19a-gillick19a.pdf.
 2021-03-09 12:33:38,519 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gilmer19a/gilmer19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gilmer19a-gilmer19a.pdf.
 2021-03-09 12:33:39,204 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gimenez19a/gimenez19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gimenez19a-gimenez19a.pdf.
 2021-03-09 12:33:39,921 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/goldfeld19a/goldfeld19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-goldfeld19a-goldfeld19a.pdf.
 2021-03-09 12:33:43,224 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/golinski19a/golinski19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-golinski19a-golinski19a.pdf.
 2021-03-09 12:33:43,613 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gollapudi19a/gollapudi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gollapudi19a-gollapudi19a.pdf.
 2021-03-09 12:33:43,976 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/golovnev19a/golovnev19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-golovnev19a-golovnev19a.pdf.
 2021-03-09 12:33:44,431 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gong19a/gong19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gong19a-gong19a.pdf.
 2021-03-09 12:33:45,357 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gong19b/gong19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gong19b-gong19b.pdf.
 2021-03-09 12:33:45,912 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gordaliza19a/gordaliza19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gordaliza19a-gordaliza19a.pdf.
 2021-03-09 12:33:46,363 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gottesman19a/gottesman19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gottesman19a-gottesman19a.pdf.
 2021-03-09 12:33:46,805 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/goyal19a/goyal19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-goyal19a-goyal19a.pdf.
 2021-03-09 12:33:49,602 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/grant19a/grant19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-grant19a-grant19a.pdf.
 2021-03-09 12:33:51,116 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/greaves-tunnell19a/greaves-tunnell19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-greaves-tunnell19a-greaves-tunnell19a.pdf.
 2021-03-09 12:33:51,522 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/greenberg19a/greenberg19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-greenberg19a-greenberg19a.pdf.
 2021-03-09 12:33:52,380 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/greenfeld19a/greenfeld19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-greenfeld19a-greenfeld19a.pdf.
 2021-03-09 12:33:54,008 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/greff19a/greff19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-greff19a-greff19a.pdf.
 2021-03-09 12:33:56,556 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/grover19a/grover19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-grover19a-grover19a.pdf.
 2021-03-09 12:33:57,243 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/gu19a/gu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-gu19a-gu19a.pdf.
 2021-03-09 12:33:57,611 [MainThread] [INFO] Retrieving http://proceedings.ml

```
r.press/v97/guan19a/guan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-guan19a-guan19a.pdf.
2021-03-09 12:33:59,366 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/guez19a/guez19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-guez19a-guez19a.pdf.
2021-03-09 12:34:00,547 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/gultchin19a/gultchin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-gultchin19a-gultchin19a.pdf.
2021-03-09 12:34:01,014 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/guo19a/guo19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-guo19a-guo19a.pdf.
2021-03-09 12:34:03,346 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/guo19b/guo19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-guo19b-guo19b.pdf.
2021-03-09 12:34:04,159 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/guo19c/guo19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-guo19c-guo19c.pdf.
2021-03-09 12:34:04,682 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/gural19a/gural19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-gural19a-gural19a.pdf.
2021-03-09 12:34:08,792 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/haber19a/haber19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-haber19a-haber19a.pdf.
2021-03-09 12:34:09,502 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/hacohen19a/hacohen19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-hacohen19a-hacohen19a.pdf.
2021-03-09 12:34:10,145 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/haddadpour19a/haddadpour19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmw
zj6_9w40000gq/T/v97-haddadpour19a-haddadpour19a.pdf.
2021-03-09 12:34:12,376 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/hafner19a/hafner19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-hafner19a-hafner19a.pdf.
2021-03-09 12:34:21,799 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/halperin19a/halperin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-halperin19a-halperin19a.pdf.
2021-03-09 12:34:22,146 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/han19a/han19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-han19a-han19a.pdf.
2021-03-09 12:34:35,121 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/han19b/han19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-han19b-han19b.pdf.
2021-03-09 12:34:37,566 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/hanin19a/hanin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-hanin19a-hanin19a.pdf.
2021-03-09 12:34:50,321 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/hanna19a/hanna19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-hanna19a-hanna19a.pdf.
2021-03-09 12:34:51,310 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/hao19a/hao19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-hao19a-hao19a.pdf.
2021-03-09 12:34:51,577 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/haochen19a/haochen19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-haochen19a-haochen19a.pdf.
2021-03-09 12:34:51,916 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/harshaw19a/harshaw19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-harshaw19a-harshaw19a.pdf.
2021-03-09 12:34:52,515 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/harutyunyan19a/harutyunyan19a.pdf to /var/folders/c/_ns1rsjk10x1csz
kmwzj6_9w40000gq/T/v97-harutyunyan19a-harutyunyan19a.pdf.
2021-03-09 12:34:53,163 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/hashemi19a/hashemi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-hashemi19a-hashemi19a.pdf.
2021-03-09 12:34:53,697 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/haviv19a/haviv19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-haviv19a-haviv19a.pdf.
```

2021-03-09 12:34:54,414 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hayou19a/hayou19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-hayou19a-hayou19a.pdf.

2021-03-09 12:34:55,367 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hazan19a/hazan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-hazan19a-hazan19a.pdf.

2021-03-09 12:34:56,113 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/heidari19a/heidari19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-heidari19a-heidari19a.pdf.

2021-03-09 12:35:00,180 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hendrickx19a/hendrickx19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-hendrickx19a-hendrickx19a.pdf.

2021-03-09 12:35:00,628 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hendrycks19a/hendrycks19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-hendrycks19a-hendrycks19a.pdf.

2021-03-09 12:35:02,522 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ho19a/ho19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-ho19a-ho19a.pdf.

2021-03-09 12:35:05,025 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ho19b/ho19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-ho19b-ho19b.pdf.

2021-03-09 12:35:05,487 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hoang19a/hoang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-hoang19a-hoang19a.pdf.

2021-03-09 12:35:05,948 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hofer19a/hofer19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-hofer19a-hofer19a.pdf.

2021-03-09 12:35:07,516 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/holland19a/holland19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-holland19a-holland19a.pdf.

2021-03-09 12:35:09,716 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hoogeboom19a/hoogeboom19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-hoogeboom19a-hoogeboom19a.pdf.

2021-03-09 12:35:10,592 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/horvath19a/horvath19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-horvath19a-horvath19a.pdf.

2021-03-09 12:35:11,106 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/houlsby19a/houlsby19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-houlsby19a-houlsby19a.pdf.

2021-03-09 12:35:11,653 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hsieh19a/hsieh19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-hsieh19a-hsieh19a.pdf.

2021-03-09 12:35:12,589 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hsieh19b/hsieh19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-hsieh19b-hsieh19b.pdf.

2021-03-09 12:35:14,199 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hsieh19c/hsieh19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-hsieh19c-hsieh19c.pdf.

2021-03-09 12:35:15,156 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hsu19a/hsu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-hsu19a-hsu19a.pdf.

2021-03-09 12:35:16,579 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/huang19a/huang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-huang19a-huang19a.pdf.

2021-03-09 12:35:17,908 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/huang19b/huang19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-huang19b-huang19b.pdf.

2021-03-09 12:35:18,633 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/huang19c/huang19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-huang19c-huang19c.pdf.

2021-03-09 12:35:19,108 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/huang19d/huang19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-huang19d-huang19d.pdf.

2021-03-09 12:35:19,796 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/huang19e/huang19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000

0qq/T/v97-huang19e-huang19e.pdf.
2021-03-09 12:35:20,141 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/huang19f/huang19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-huang19f-huang19f.pdf.
2021-03-09 12:35:20,871 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/huang19g/huang19g.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-huang19g-huang19g.pdf.
2021-03-09 12:35:21,210 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hunt19a/hunt19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-hunt19a-hunt19a.pdf.
2021-03-09 12:35:22,384 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/hwang19a/hwang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-hwang19a-hwang19a.pdf.
2021-03-09 12:35:23,537 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ialongo19a/ialongo19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-ialongo19a-ialongo19a.pdf.
2021-03-09 12:35:25,226 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/innes19a/innes19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-innes19a-innes19a.pdf.
2021-03-09 12:35:25,767 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ipsen19a/ipsen19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-ipsen19a-ipsen19a.pdf.
2021-03-09 12:35:26,345 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/iqbali19a/iqbali19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-iqbali19a-iqbali19a.pdf.
2021-03-09 12:35:26,876 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ishida19a/ishida19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-ishida19a-ishida19a.pdf.
2021-03-09 12:35:27,884 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jaber19a/jaber19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-jaber19a-jaber19a.pdf.
2021-03-09 12:35:28,137 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jacq19a/jacq19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-jacq19a-jacq19a.pdf.
2021-03-09 12:35:29,275 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jagielski19a/jagielski19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-jagielski19a-jagielski19a.pdf.
2021-03-09 12:35:29,718 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jaini19a/jaini19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-jaini19a-jaini19a.pdf.
2021-03-09 12:35:30,063 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jang19a/jang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-jang19a-jang19a.pdf.
2021-03-09 12:35:31,249 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jang19b/jang19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-jang19b-jang19b.pdf.
2021-03-09 12:35:34,714 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jaques19a/jaques19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-jaques19a-jaques19a.pdf.
2021-03-09 12:35:35,558 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jay19a/jay19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-jay19a-jay19a.pdf.
2021-03-09 12:35:36,705 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jeong19a/jeong19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-jeong19a-jeong19a.pdf.
2021-03-09 12:35:37,288 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jeong19b/jeong19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-jeong19b-jeong19b.pdf.
2021-03-09 12:35:37,902 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jeong19c/jeong19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-jeong19c-jeong19c.pdf.
2021-03-09 12:35:39,516 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/jeong19d/jeong19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-jeong19d-jeong19d.pdf.
2021-03-09 12:35:41,744 [MainThread] [INFO] Retrieving http://proceedings.ml

```
r.press/v97/ji19a/ji19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-ji19a-ji19a.pdf.
2021-03-09 12:35:42,889 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/jiang19a/jiang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-jiang19a-jiang19a.pdf.
2021-03-09 12:35:43,178 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/jinnai19a/jinnai19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-jinnai19a-jinnai19a.pdf.
2021-03-09 12:36:03,258 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/jinnai19b/jinnai19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-jinnai19b-jinnai19b.pdf.
2021-03-09 12:36:05,301 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/jitkrittum19a/jitkrittum19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-jitkrittum19a-jitkrittum19a.pdf.
2021-03-09 12:36:08,192 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/john19a/john19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-john19a-john19a.pdf.
2021-03-09 12:36:08,522 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/jun19a/jun19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-jun19a-jun19a.pdf.
2021-03-09 12:36:09,275 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kahng19a/kahng19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kahng19a-kahng19a.pdf.
2021-03-09 12:36:10,922 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kajino19a/kajino19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kajino19a-kajino19a.pdf.
2021-03-09 12:36:11,301 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kalimeris19a/kalimeris19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kalimeris19a-kalimeris19a.pdf.
2021-03-09 12:36:12,315 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kallus19a/kallus19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kallus19a-kallus19a.pdf.
2021-03-09 12:36:14,563 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kalyan19a/kalyan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kalyan19a-kalyan19a.pdf.
2021-03-09 12:36:14,933 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kandasamy19a/kandasamy19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kandasamy19a-kandasamy19a.pdf.
2021-03-09 12:36:15,571 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kaplan19a/kaplan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kaplan19a-kaplan19a.pdf.
2021-03-09 12:36:16,015 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kaplanis19a/kaplanis19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kaplanis19a-kaplanis19a.pdf.
2021-03-09 12:36:21,241 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/karimireddy19a/karimireddy19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-karimireddy19a-karimireddy19a.pdf.
2021-03-09 12:36:22,141 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kasai19a/kasai19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kasai19a-kasai19a.pdf.
2021-03-09 12:36:23,307 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kaspar19a/kaspar19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kaspar19a-kaspar19a.pdf.
2021-03-09 12:36:24,791 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/katharopoulos19a/katharopoulos19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-katharopoulos19a-katharopoulos19a.pdf.
2021-03-09 12:36:25,623 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/katiyar19a/katiyar19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-katiyar19a-katiyar19a.pdf.
2021-03-09 12:36:26,366 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kaya19a/kaya19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kaya19a-kaya19a.pdf.
2021-03-09 12:36:26,775 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/kazemi19a/kazemi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kazemi19a-kazemi19a.pdf.
```

2021-03-09 12:36:27,981 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kempka19a/kempka19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-kempka19a-kempka19a.pdf.

2021-03-09 12:36:29,766 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kenter19a/kenter19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-kenter19a-kenter19a.pdf.

2021-03-09 12:36:31,386 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/khadka19a/khadka19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-khadka19a-khadka19a.pdf.

2021-03-09 12:36:32,035 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/khasanova19a/khasanova19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-khasanova19a-khasanova19a.pdf.

2021-03-09 12:36:33,050 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kim19a/kim19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kim19a-kim19a.pdf.

2021-03-09 12:36:36,415 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kim19b/kim19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kim19b-kim19b.pdf.

2021-03-09 12:36:40,303 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kim19c/kim19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kim19c-kim19c.pdf.

2021-03-09 12:36:41,464 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kim19d/kim19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kim19d-kim19d.pdf.

2021-03-09 12:36:41,760 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kim19e/kim19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kim19e-kim19e.pdf.

2021-03-09 12:36:42,024 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kingma19a/kingma19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kingma19a-kingma19a.pdf.

2021-03-09 12:36:42,989 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kipf19a/kipf19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kipf19a-kipf19a.pdf.

2021-03-09 12:36:44,228 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kirschner19a/kirschner19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kirschner19a-kirschner19a.pdf.

2021-03-09 12:36:44,874 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kleiman19a/kleiman19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kleiman19a-kleiman19a.pdf.

2021-03-09 12:36:45,210 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kleindessner19a/kleindessner19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kleindessner19a-kleindessner19a.pdf.

2021-03-09 12:36:46,537 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kleindessner19b/kleindessner19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kleindessner19b-kleindessner19b.pdf.

2021-03-09 12:36:46,937 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ko19a/ko19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-ko19a-ko19a.pdf.

2021-03-09 12:36:48,013 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/koloskova19a/koloskova19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-koloskova19a-koloskova19a.pdf.

2021-03-09 12:36:49,454 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/konstantinov19a/konstantinov19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-konstantinov19a-konstantinov19a.pdf.

2021-03-09 12:36:50,711 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kool19a/kool19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kool19a-kool19a.pdf.

2021-03-09 12:36:51,205 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/koratana19a/koratana19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-koratana19a-koratana19a.pdf.

2021-03-09 12:36:53,959 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kornblith19a/kornblith19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-kornblith19a-kornblith19a.pdf.

2021-03-09 12:36:54,915 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/kroshnin19a/kroshnin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_

9w40000gq/T/v97-kroshnin19a-kroshnin19a.pdf.
 2021-03-09 12:36:55,296 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/kulunchakov19a/kulunchakov19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w4000gq/T/v97-kulunchakov19a-kulunchakov19a.pdf.
 2021-03-09 12:36:55,666 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/kumar19a/kumar19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w4000gq/T/v97-kumar19a-kumar19a.pdf.
 2021-03-09 12:36:55,998 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/kunin19a/kunin19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w4000gq/T/v97-kunin19a-kunin19a.pdf.
 2021-03-09 12:36:57,451 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/kuo19a/kuo19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w4000gq/T/v97-kuo19a-kuo19a.pdf.
 2021-03-09 12:36:59,130 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/kurach19a/kurach19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w4000gq/T/v97-kurach19a-kurach19a.pdf.
 2021-03-09 12:37:00,144 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/kusner19a/kusner19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w4000gq/T/v97-kusner19a-kusner19a.pdf.
 2021-03-09 12:37:04,369 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/kveton19a/kveton19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w4000gq/T/v97-kveton19a-kveton19a.pdf.
 2021-03-09 12:37:05,206 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/labatie19a/labatie19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-labatie19a-labatie19a.pdf.
 2021-03-09 12:37:06,187 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lamb19a/lamb19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lamb19a-lamb19a.pdf.
 2021-03-09 12:37:06,889 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lamprier19a/lamprier19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lamprier19a-lamprier19a.pdf.
 2021-03-09 12:37:07,369 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lange19a/lange19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lange19a-lange19a.pdf.
 2021-03-09 12:37:07,867 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/laroche19a/laroche19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-laroche19a-laroche19a.pdf.
 2021-03-09 12:37:08,528 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lattanzi19a/lattanzi19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lattanzi19a-lattanzi19a.pdf.
 2021-03-09 12:37:09,020 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/law19a/law19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-law19a-law19a.pdf.
 2021-03-09 12:37:10,004 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lawrence19a/lawrence19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lawrence19a-lawrence19a.pdf.
 2021-03-09 12:37:11,478 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lazic19a/lazic19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lazic19a-lazic19a.pdf.
 2021-03-09 12:37:12,320 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/le19a/le19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-le19a-le19a.pdf.
 2021-03-09 12:37:13,223 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lee19a/lee19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lee19a-lee19a.pdf.
 2021-03-09 12:37:13,575 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lee19b/lee19b.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lee19b-lee19b.pdf.
 2021-03-09 12:37:23,264 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lee19c/lee19c.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lee19c-lee19c.pdf.
 2021-03-09 12:37:23,563 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/lee19d/lee19d.pdf to /var/folders/c/_ns1rsjk10x1cszk
 mwzj6_9w40000gq/T/v97-lee19d-lee19d.pdf.
 2021-03-09 12:37:26,148 [MainThread] [INFO] Retrieving http://proceedings.ml

r.press/v97/lee19e/lee19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-lee19e-lee19e.pdf.
2021-03-09 12:37:26,418 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lee19f/lee19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-lee19f-lee19f.pdf.
2021-03-09 12:37:26,946 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lei19a/lei19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-lei19a-lei19a.pdf.
2021-03-09 12:37:27,424 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lerasle19a/lerasle19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-lerasle19a-lerasle19a.pdf.
2021-03-09 12:37:28,081 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lezcano-casado19a/lezcano-casado19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-lezcano-casado19a-lezcano-casado19a.pdf.
2021-03-09 12:37:28,593 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19a/li19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19a-li19a.pdf.
2021-03-09 12:37:29,565 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19b/li19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19b-li19b.pdf.
2021-03-09 12:37:30,113 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19c/li19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19c-li19c.pdf.
2021-03-09 12:37:30,832 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19d/li19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19d-li19d.pdf.
2021-03-09 12:37:32,891 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19e/li19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19e-li19e.pdf.
2021-03-09 12:37:33,345 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19f/li19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19f-li19f.pdf.
2021-03-09 12:37:34,286 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19g/li19g.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19g-li19g.pdf.
2021-03-09 12:37:34,735 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19h/li19h.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19h-li19h.pdf.
2021-03-09 12:37:35,138 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19i/li19i.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19i-li19i.pdf.
2021-03-09 12:37:35,592 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19j/li19j.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19j-li19j.pdf.
2021-03-09 12:37:38,064 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19k/li19k.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19k-li19k.pdf.
2021-03-09 12:37:38,513 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19l/li19l.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19l-li19l.pdf.
2021-03-09 12:37:38,971 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19m/li19m.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19m-li19m.pdf.
2021-03-09 12:37:39,692 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/li19n/li19n.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-li19n-li19n.pdf.
2021-03-09 12:37:40,036 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liakopoulos19a/liakopoulos19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-liakopoulos19a-liakopoulos19a.pdf.
2021-03-09 12:37:40,591 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lichtenberg19a/lichtenberg19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-lichtenberg19a-lichtenberg19a.pdf.
2021-03-09 12:37:48,945 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/likhosherstov19a/likhosherstov19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-likhosherstov19a-likhosherstov19a.pdf.

2021-03-09 12:37:49,293 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lim19a/lim19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-lim19a-lim19a.pdf.

2021-03-09 12:37:49,807 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lin19a/lin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-lin19a-lin19a.pdf.

2021-03-09 12:37:50,314 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lin19b/lin19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-lin19b-lin19b.pdf.

2021-03-09 12:37:51,788 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19a/liu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19a-liu19a.pdf.

2021-03-09 12:37:52,316 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19b/liu19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19b-liu19b.pdf.

2021-03-09 12:37:54,548 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19c/liu19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19c-liu19c.pdf.

2021-03-09 12:37:54,897 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19d/liu19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19d-liu19d.pdf.

2021-03-09 12:37:55,202 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19e/liu19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19e-liu19e.pdf.

2021-03-09 12:37:55,761 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19f/liu19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19f-liu19f.pdf.

2021-03-09 12:37:58,179 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19g/liu19g.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19g-liu19g.pdf.

2021-03-09 12:37:59,399 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19h/liu19h.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19h-liu19h.pdf.

2021-03-09 12:38:01,390 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19i/liu19i.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19i-liu19i.pdf.

2021-03-09 12:38:01,935 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liu19j/liu19j.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-liu19j-liu19j.pdf.

2021-03-09 12:38:02,616 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/liutkus19a/liutkus19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-liutkus19a-liutkus19a.pdf.

2021-03-09 12:38:05,120 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/locatello19a/locatello19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-locatello19a-locatello19a.pdf.

2021-03-09 12:38:05,828 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/london19a/london19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
000gq/T/v97-london19a-london19a.pdf.

2021-03-09 12:38:06,185 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lu19a/lu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/
v97-lu19a-lu19a.pdf.

2021-03-09 12:38:06,566 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lu19b/lu19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/
v97-lu19b-lu19b.pdf.

2021-03-09 12:38:07,301 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lu19c/lu19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/
v97-lu19c-lu19c.pdf.

2021-03-09 12:38:07,903 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lu19d/lu19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/
v97-lu19d-lu19d.pdf.

2021-03-09 12:38:08,856 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lucibello19a/lucibello19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-lucibello19a-lucibello19a.pdf.

2021-03-09 12:38:10,637 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/lucic19a/lucic19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000

```

0qq/T/v97-lucic19a-lucic19a.pdf.
2021-03-09 12:38:11,155 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/luisel19a/luisel19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0qq/T/v97-luisel19a-luisel19a.pdf.
2021-03-09 12:38:11,819 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/luo19a/luo19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-luo19a-luo19a.pdf.
2021-03-09 12:38:14,575 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/ma19a/ma19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-ma19a-ma19a.pdf.
2021-03-09 12:38:14,982 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/ma19b/ma19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-ma19b-ma19b.pdf.
2021-03-09 12:38:15,796 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/ma19c/ma19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-ma19c-ma19c.pdf.
2021-03-09 12:38:19,062 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/magnusson19a/magnusson19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-magnusson19a-magnusson19a.pdf.
2021-03-09 12:38:19,325 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mahabadi19a/mahabadi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-mahabadi19a-mahabadi19a.pdf.
2021-03-09 12:38:19,756 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/maheswaranathan19a/maheswaranathan19a.pdf to /var/folders/c/_ns1rsjk
10x1cszkmwzj6_9w40000gq/T/v97-maheswaranathan19a-maheswaranathan19a.pdf.
2021-03-09 12:38:21,343 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mahloujifar19a/mahloujifar19a.pdf to /var/folders/c/_ns1rsjk10x1csz
kmwzj6_9w40000gq/T/v97-mahloujifar19a-mahloujifar19a.pdf.
2021-03-09 12:38:21,701 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mahoney19a/mahoney19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-mahoney19a-mahoney19a.pdf.
2021-03-09 12:38:22,077 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mai19a/mai19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-mai19a-mai19a.pdf.
2021-03-09 12:38:22,383 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/makkova19a/makkova19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-makkova19a-makkova19a.pdf.
2021-03-09 12:38:22,689 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/malik19a/malik19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-malik19a-malik19a.pdf.
2021-03-09 12:38:23,205 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mann19a/mann19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-mann19a-mann19a.pdf.
2021-03-09 12:38:23,920 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mannelli19a/mannelli19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-mannelli19a-mannelli19a.pdf.
2021-03-09 12:38:24,836 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mao19a/mao19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-mao19a-mao19a.pdf.
2021-03-09 12:38:26,340 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/marafioti19a/marafioti19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-marafioti19a-marafioti19a.pdf.
2021-03-09 12:38:28,092 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/maron19a/maron19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-maron19a-maron19a.pdf.
2021-03-09 12:38:30,421 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/martens19a/martens19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-martens19a-martens19a.pdf.
2021-03-09 12:38:32,638 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mary19a/mary19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-mary19a-mary19a.pdf.
2021-03-09 12:38:34,248 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mathiasen19a/mathiasen19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-mathiasen19a-mathiasen19a.pdf.
2021-03-09 12:38:35,270 [MainThread ] [INFO ] Retrieving http://proceedings.ml

```

```
r.press/v97/mathieu19a/mathieu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-mathieu19a-mathieu19a.pdf.
2021-03-09 12:38:53,033 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mattei19a/mattei19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-mattei19a-mattei19a.pdf.
2021-03-09 12:38:53,381 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mavrin19a/mavrin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-mavrin19a-mavrin19a.pdf.
2021-03-09 12:38:55,180 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mckenna19a/mckenna19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-mckenna19a-mckenna19a.pdf.
2021-03-09 12:38:55,534 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/meeds19a/meeds19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-meeds19a-meeds19a.pdf.
2021-03-09 12:38:55,851 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mehrotra19a/mehrotra19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-mehrotra19a-mehrotra19a.pdf.
2021-03-09 12:38:58,918 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mehta19a/mehta19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-mehta19a-mehta19a.pdf.
2021-03-09 12:38:59,241 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mei19a/mei19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-mei19a-mei19a.pdf.
2021-03-09 12:39:00,067 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/meller19a/meller19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-meller19a-meller19a.pdf.
2021-03-09 12:39:00,455 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/memoli19a/memoli19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-memoli19a-memoli19a.pdf.
2021-03-09 12:39:02,954 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mendis19a/mendis19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-mendis19a-mendis19a.pdf.
2021-03-09 12:39:03,454 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mensch19a/mensch19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-mensch19a-mensch19a.pdf.
2021-03-09 12:39:03,791 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mercado19a/mercado19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-mercado19a-mercado19a.pdf.
2021-03-09 12:39:06,188 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/metelli19a/metelli19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-metelli19a-metelli19a.pdf.
2021-03-09 12:39:06,466 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/metelli19a/metelli19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-metelli19a-metelli19a.pdf.
2021-03-09 12:39:07,015 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/metz19a/metz19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-metz19a-metz19a.pdf.
2021-03-09 12:39:08,048 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/meyer19a/meyer19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-meyer19a-meyer19a.pdf.
2021-03-09 12:39:16,907 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mianjy19a/mianjy19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-mianjy19a-mianjy19a.pdf.
2021-03-09 12:39:17,841 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/miller19a/miller19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-miller19a-miller19a.pdf.
2021-03-09 12:39:18,752 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mirshani19a/mirshani19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-mirshani19a-mirshani19a.pdf.
2021-03-09 12:39:20,043 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mishne19a/mishne19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-mishne19a-mishne19a.pdf.
2021-03-09 12:39:21,572 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/mohri19a/mohri19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-mohri19a-mohri19a.pdf.
```

2021-03-09 12:39:21,969 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/mollenhoff19a/mollenhoff19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmw
zj6_9w40000gq/T/v97-mollenhoff19a-mollenhoff19a.pdf.

2021-03-09 12:39:22,638 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/moon19a/moon19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-moon19a-moon19a.pdf.

2021-03-09 12:39:23,521 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/mostafa19a/mostafa19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-mostafa19a-mostafa19a.pdf.

2021-03-09 12:39:24,025 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/muehlebach19a/muehlebach19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmw
zj6_9w40000gq/T/v97-muehlebach19a-muehlebach19a.pdf.

2021-03-09 12:39:24,698 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/murphy19a/murphy19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-murphy19a-murphy19a.pdf.

2021-03-09 12:39:25,315 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nabi19a/nabi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-nabi19a-nabi19a.pdf.

2021-03-09 12:39:25,662 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nacson19a/nacson19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-nacson19a-nacson19a.pdf.

2021-03-09 12:39:25,974 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nagano19a/nagano19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-nagano19a-nagano19a.pdf.

2021-03-09 12:39:26,848 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nagaraj19a/nagaraj19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-nagaraj19a-nagaraj19a.pdf.

2021-03-09 12:39:27,278 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nalisnick19a/nalisnick19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-nalisnick19a-nalisnick19a.pdf.

2021-03-09 12:39:27,743 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nalisnick19b/nalisnick19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-nalisnick19b-nalisnick19b.pdf.

2021-03-09 12:39:28,377 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nam19a/nam19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-nam19a-nam19a.pdf.

2021-03-09 12:39:30,224 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nayak19a/nayak19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w400
0gq/T/v97-nayak19a-nayak19a.pdf.

2021-03-09 12:39:31,013 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nayebi19a/nayebi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-nayebi19a-nayebi19a.pdf.

2021-03-09 12:39:31,906 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nayer19a/nayer19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-nayer19a-nayer19a.pdf.

2021-03-09 12:39:32,235 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ndiaye19a/ndiaye19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-ndiaye19a-ndiaye19a.pdf.

2021-03-09 12:39:32,625 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nedelec19a/nedelec19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-nedelec19a-nedelec19a.pdf.

2021-03-09 12:39:33,036 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nguyen19a/nguyen19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-nguyen19a-nguyen19a.pdf.

2021-03-09 12:39:33,415 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nguyen19b/nguyen19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-nguyen19b-nguyen19b.pdf.

2021-03-09 12:39:34,194 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nguyen19c/nguyen19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-nguyen19c-nguyen19c.pdf.

2021-03-09 12:39:34,528 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nirwan19a/nirwan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-nirwan19a-nirwan19a.pdf.

2021-03-09 12:39:36,656 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nock19a/nock19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g

q/T/v97-nock19a-nock19a.pdf.
2021-03-09 12:39:37,171 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nokland19a/nokland19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-nokland19a-nokland19a.pdf.
2021-03-09 12:39:37,471 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/novati19a/novati19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-novati19a-novati19a.pdf.
2021-03-09 12:39:38,121 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/nye19a/nye19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-nye19a-nye19a.pdf.
2021-03-09 12:39:38,688 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/obermeyer19a/obermeyer19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-obermeyer19a-obermeyer19a.pdf.
2021-03-09 12:39:39,171 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/oberst19a/oberst19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-oberst19a-oberst19a.pdf.
2021-03-09 12:39:40,108 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ochs19a/ochs19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-ochs19a-ochs19a.pdf.
2021-03-09 12:39:40,548 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/odena19a/odena19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-odena19a-odena19a.pdf.
2021-03-09 12:39:41,301 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/oglic19a/oglic19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-oglic19a-oglic19a.pdf.
2021-03-09 12:39:41,995 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/oono19a/oono19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-oono19a-oono19a.pdf.
2021-03-09 12:39:42,418 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/oprescu19a/oprescu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-oprescu19a-oprescu19a.pdf.
2021-03-09 12:39:43,109 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/osama19a/osama19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-osama19a-osama19a.pdf.
2021-03-09 12:39:45,401 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/oymak19a/oymak19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-oymak19a-oymak19a.pdf.
2021-03-09 12:39:46,148 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/panageas19a/panageas19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-panageas19a-panageas19a.pdf.
2021-03-09 12:39:46,498 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/pang19a/pang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-pang19a-pang19a.pdf.
2021-03-09 12:39:46,930 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/panousis19a/panousis19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-panousis19a-panousis19a.pdf.
2021-03-09 12:39:47,258 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/papini19a/papini19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-papini19a-papini19a.pdf.
2021-03-09 12:39:47,845 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/pappas19a/pappas19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-pappas19a-pappas19a.pdf.
2021-03-09 12:39:48,204 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/papyan19a/papyan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-papyan19a-papyan19a.pdf.
2021-03-09 12:39:52,210 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/parizi19a/parizi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-parizi19a-parizi19a.pdf.
2021-03-09 12:40:01,089 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/park19a/park19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-park19a-park19a.pdf.
2021-03-09 12:40:04,334 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/park19b/park19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-park19b-park19b.pdf.
2021-03-09 12:40:04,896 [MainThread] [INFO] Retrieving http://proceedings.ml

r.press/v97/park19c/park19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-park19c-park19c.pdf.

2021-03-09 12:40:05,323 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/pathak19a/pathak19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000g
000gq/T/v97-pathak19a-pathak19a.pdf.

2021-03-09 12:40:07,236 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/paty19a/paty19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-paty19a-paty19a.pdf.

2021-03-09 12:40:08,039 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/paul19a/paul19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-paul19a-paul19a.pdf.

2021-03-09 12:40:08,429 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/peng19a/peng19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-peng19a-peng19a.pdf.

2021-03-09 12:40:09,779 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/peng19b/peng19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-peng19b-peng19b.pdf.

2021-03-09 12:40:11,692 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/peng19c/peng19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-peng19c-peng19c.pdf.

2021-03-09 12:40:12,148 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/perrault19a/perrault19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-perrault19a-perrault19a.pdf.

2021-03-09 12:40:12,607 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/peterson19a/peterson19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-peterson19a-peterson19a.pdf.

2021-03-09 12:40:13,004 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/phuong19a/phuong19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000g
000gq/T/v97-phuong19a-phuong19a.pdf.

2021-03-09 12:40:13,522 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/piergiovanni19a/piergiovanni19a.pdf to /var/folders/c/_ns1rsjk10x1cs
zkmwj6_9w40000gq/T/v97-piergiovanni19a-piergiovanni19a.pdf.

2021-03-09 12:40:14,136 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/polianskii19a/polianskii19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmw
zj6_9w40000gq/T/v97-polianskii19a-polianskii19a.pdf.

2021-03-09 12:40:14,653 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/poole19a/poole19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-poole19a-poole19a.pdf.

2021-03-09 12:40:15,709 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/purohit19a/purohit19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-purohit19a-purohit19a.pdf.

2021-03-09 12:40:16,022 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/qian19a/qian19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-qian19a-qian19a.pdf.

2021-03-09 12:40:16,369 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/qian19b/qian19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-qian19b-qian19b.pdf.

2021-03-09 12:40:17,102 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/qian19c/qian19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-qian19c-qian19c.pdf.

2021-03-09 12:40:17,496 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/qiao19a/qiao19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-qiao19a-qiao19a.pdf.

2021-03-09 12:40:18,387 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/qin19a/qin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-qin19a-qin19a.pdf.

2021-03-09 12:40:18,699 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/qu19a/qu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-qu19a-qu19a.pdf.

2021-03-09 12:40:19,325 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/qu19b/qu19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-qu19b-qu19b.pdf.

2021-03-09 12:40:20,221 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/radanovic19a/radanovic19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj
6_9w40000gq/T/v97-radanovic19a-radanovic19a.pdf.

2021-03-09 12:40:20,497 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rae19a/rae19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/
T/v97-rae19a-rae19a.pdf.

2021-03-09 12:40:21,063 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/raghu19a/raghu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-raghu19a-raghu19a.pdf.

2021-03-09 12:40:21,957 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/raghunathan19a/raghunathan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/
T/v97-raghunathan19a-raghunathan19a.pdf.

2021-03-09 12:40:22,761 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rahaman19a/rahaman19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/
T/v97-rahaman19a-rahaman19a.pdf.

2021-03-09 12:40:23,755 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rahman19a/rahman19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/
T/v97-rahman19a-rahman19a.pdf.

2021-03-09 12:40:25,520 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rajput19a/rajput19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/
T/v97-rajput19a-rajput19a.pdf.

2021-03-09 12:40:26,077 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rakelly19a/rakelly19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/
T/v97-rakelly19a-rakelly19a.pdf.

2021-03-09 12:40:26,584 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rakotomamonjy19a/rakotomamonjy19a.pdf to /var/folders/c/_ns1rsjk10x1
cszkmwzj6_9w4000gq/T/v97-rakotomamonjy19a-rakotomamonjy19a.pdf.

2021-03-09 12:40:28,471 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ramamurthy19a/ramamurthy19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/
T/v97-ramamurthy19a-ramamurthy19a.pdf.

2021-03-09 12:40:28,973 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ratzlaff19a/ratzlaff19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000gq/
T/v97-ratzlaff19a-ratzlaff19a.pdf.

2021-03-09 12:40:29,497 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ravi19a/ravi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-ravi19a-ravi19a.pdf.

2021-03-09 12:40:29,925 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/raziperchikolaei19a/raziperchikolaei19a.pdf to /var/folders/c/_ns1rsjk10x1
cszkmwzj6_9w40000gq/T/v97-raziperchikolaei19a-raziperchikolaei19a.pdf.

2021-03-09 12:40:30,370 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/recht19a/recht19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-recht19a-recht19a.pdf.

2021-03-09 12:40:31,022 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/reeve19a/reeve19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-reeve19a-reeve19a.pdf.

2021-03-09 12:40:31,315 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ren19a/ren19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-ren19a-ren19a.pdf.

2021-03-09 12:40:31,957 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ren19b/ren19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-ren19b-ren19b.pdf.

2021-03-09 12:40:32,712 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/resler19a/resler19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-resler19a-resler19a.pdf.

2021-03-09 12:40:33,173 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rezaei19a/rezaei19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-rezaei19a-rezaei19a.pdf.

2021-03-09 12:40:33,601 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rieck19a/rieck19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-rieck19a-rieck19a.pdf.

2021-03-09 12:40:33,896 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rolland19a/rolland19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-rolland19a-rolland19a.pdf.

2021-03-09 12:40:34,428 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/romoff19a/romoff19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-romoff19a-romoff19a.pdf.

2021-03-09 12:40:35,253 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/rosenberg19a/rosenberg19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj

6_9w40000gq/T/v97-rosenberg19a-rosenberg19a.pdf.
 2021-03-09 12:40:35,581 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/rossi19a/rossi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
 0gq/T/v97-rossi19a-rossi19a.pdf.
 2021-03-09 12:40:36,583 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/roth19a/roth19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
 q/T/v97-roth19a-roth19a.pdf.
 2021-03-09 12:40:39,233 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/rotskoff19a/rotskoff19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-rotskoff19a-rotskoff19a.pdf.
 2021-03-09 12:40:39,667 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/roulette19a/roulette19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-roulette19a-roulette19a.pdf.
 2021-03-09 12:40:40,255 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/rowland19a/rowland19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-rowland19a-rowland19a.pdf.
 2021-03-09 12:40:41,703 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/ruiz19a/ruiz19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-ruiz19a-ruiz19a.pdf.
 2021-03-09 12:40:42,125 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/ryu19a/ryu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-ryu19a-ryu19a.pdf.
 2021-03-09 12:40:42,742 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/sablayrolles19a/sablayrolles19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-sablayrolles19a-sablayrolles19a.pdf.
 2021-03-09 12:40:43,651 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/sajed19a/sajed19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-sajed19a-sajed19a.pdf.
 2021-03-09 12:40:44,058 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/salimbeni19a/salimbeni19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-salimbeni19a-salimbeni19a.pdf.
 2021-03-09 12:40:44,521 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/santiago19a/santiago19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-santiago19a-santiago19a.pdf.
 2021-03-09 12:40:45,057 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/sarkar19a/sarkar19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-sarkar19a-sarkar19a.pdf.
 2021-03-09 12:40:45,704 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/sato19a/sato19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-sato19a-sato19a.pdf.
 2021-03-09 12:41:01,952 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/saunshi19a/saunshi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-saunshi19a-saunshi19a.pdf.
 2021-03-09 12:41:02,876 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/schein19a/schein19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-schein19a-schein19a.pdf.
 2021-03-09 12:41:05,821 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/schroeter19a/schroeter19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-schroeter19a-schroeter19a.pdf.
 2021-03-09 12:41:06,631 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/seshadri19a/seshadri19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-seshadri19a-seshadri19a.pdf.
 2021-03-09 12:41:07,661 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/shah19a/shah19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-shah19a-shah19a.pdf.
 2021-03-09 12:41:08,993 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/shani19a/shani19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-shani19a-shani19a.pdf.
 2021-03-09 12:41:17,919 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/sharan19a/sharan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-sharan19a-sharan19a.pdf.
 2021-03-09 12:41:18,779 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/shen19a/shen19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-shen19a-shen19a.pdf.
 2021-03-09 12:41:19,747 [MainThread] [INFO] Retrieving http://proceedings.ml

r.press/v97/shen19b/shen19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-shen19b-shen19b.pdf.

2021-03-09 12:41:20,092 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/shen19c/shen19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-shen19c-shen19c.pdf.

2021-03-09 12:41:20,794 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/shen19d/shen19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-shen19d-shen19d.pdf.

2021-03-09 12:41:22,136 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/shen19e/shen19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-shen19e-shen19e.pdf.

2021-03-09 12:41:23,055 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/shestopaloff19a/shestopaloff19a.pdf to /var/folders/c/_ns1rsjk10x1cs
zkmwj6_9w40000gq/T/v97-shestopaloff19a-shestopaloff19a.pdf.

2021-03-09 12:41:23,484 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/shi19a/shi19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-shi19a-shi19a.pdf.

2021-03-09 12:41:24,210 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/shi19b/shi19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-shi19b-shi19b.pdf.

2021-03-09 12:41:25,094 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/shyam19a/shyam19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-shyam19a-shyam19a.pdf.

2021-03-09 12:41:26,737 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/siminelakis19a/siminelakis19a.pdf to /var/folders/c/_ns1rsjk10x1cszk
mwj6_9w40000gq/T/v97-siminelakis19a-siminelakis19a.pdf.

2021-03-09 12:41:27,657 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/simon19a/simon19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-simon19a-simon19a.pdf.

2021-03-09 12:41:28,677 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/simon-gabriel19a/simon-gabriel19a.pdf to /var/folders/c/_ns1rsjk10x1
cszkmwj6_9w40000gq/T/v97-simon-gabriel19a-simon-gabriel19a.pdf.

2021-03-09 12:41:29,064 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/simonov19a/simonov19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w
40000gq/T/v97-simonov19a-simonov19a.pdf.

2021-03-09 12:41:29,333 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/simsekli19a/simsekli19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_
9w40000gq/T/v97-simsekli19a-simsekli19a.pdf.

2021-03-09 12:41:30,231 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/singh19a/singh19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-singh19a-singh19a.pdf.

2021-03-09 12:41:31,069 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/singla19a/singla19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
000gq/T/v97-singla19a-singla19a.pdf.

2021-03-09 12:41:32,549 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/slim19a/slim19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-slim19a-slim19a.pdf.

2021-03-09 12:41:32,931 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/smith19a/smith19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-smith19a-smith19a.pdf.

2021-03-09 12:41:36,294 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/so19a/so19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-so19a-so19a.pdf.

2021-03-09 12:41:36,620 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/son19a/son19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-son19a-son19a.pdf.

2021-03-09 12:41:37,172 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/song19a/song19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-song19a-song19a.pdf.

2021-03-09 12:41:38,216 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/song19b/song19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-song19b-song19b.pdf.

2021-03-09 12:41:38,600 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/song19c/song19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-song19c-song19c.pdf.

2021-03-09 12:41:39,443 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/song19d/song19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-song19d-song19d.pdf.

2021-03-09 12:41:43,419 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/soto19a/soto19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-soto19a-soto19a.pdf.

2021-03-09 12:41:44,574 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/spring19a/spring19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w400
00gq/T/v97-spring19a-spring19a.pdf.

2021-03-09 12:41:44,970 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/staib19a/staib19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-staib19a-staib19a.pdf.

2021-03-09 12:41:45,395 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/stelzner19a/stelzner19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-stelzner19a-stelzner19a.pdf.

2021-03-09 12:41:46,789 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/stern19a/stern19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-stern19a-stern19a.pdf.

2021-03-09 12:41:47,086 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/stickland19a/stickland19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-stickland19a-stickland19a.pdf.

2021-03-09 12:41:47,328 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/streeter19a/streeter19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-streeter19a-streeter19a.pdf.

2021-03-09 12:41:47,728 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/su19a/su19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-su19a-su19a.pdf.

2021-03-09 12:41:48,501 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/su19b/su19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-su19b-su19b.pdf.

2021-03-09 12:41:48,685 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/sun19a/sun19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-sun19a-sun19a.pdf.

2021-03-09 12:41:49,197 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/sun19b/sun19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-sun19b-sun19b.pdf.

2021-03-09 12:41:50,000 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/sundin19a/sundin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
00gq/T/v97-sundin19a-sundin19a.pdf.

2021-03-09 12:41:50,397 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/suter19a/suter19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-suter19a-suter19a.pdf.

2021-03-09 12:41:51,122 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/suzuki19a/suzuki19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
00gq/T/v97-suzuki19a-suzuki19a.pdf.

2021-03-09 12:41:51,335 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/taghvaei19a/taghvaei19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-taghvaei19a-taghvaei19a.pdf.

2021-03-09 12:41:51,831 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tai19a/tai19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-tai19a-tai19a.pdf.

2021-03-09 12:41:52,162 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tallec19a/tallec19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
00gq/T/v97-tallec19a-tallec19a.pdf.

2021-03-09 12:41:52,891 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tan19a/tan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-tan19a-tan19a.pdf.

2021-03-09 12:41:53,533 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tan19b/tan19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
v97-tan19b-tan19b.pdf.

2021-03-09 12:41:54,189 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tang19a/tang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-tang19a-tang19a.pdf.

2021-03-09 12:41:54,602 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tang19b/tang19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g

q/T/v97-tang19b-tang19b.pdf.
2021-03-09 12:41:55,016 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tang19c/tang19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-tang19c-tang19c.pdf.
2021-03-09 12:41:56,389 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tang19d/tang19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-tang19d-tang19d.pdf.
2021-03-09 12:41:57,866 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tanno19a/tanno19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-tanno19a-tanno19a.pdf.
2021-03-09 12:41:58,633 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tao19a/tao19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-tao19a-tao19a.pdf.
2021-03-09 12:42:00,224 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tavares19a/tavares19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-tavares19a-tavares19a.pdf.
2021-03-09 12:42:00,998 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tennenholtz19a/tennenholtz19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-tennenholtz19a-tennenholtz19a.pdf.
2021-03-09 12:42:02,145 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/terada19a/terada19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-terada19a-terada19a.pdf.
2021-03-09 12:42:03,516 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tesseract19a/tesseract19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-tesseract19a-tesseract19a.pdf.
2021-03-09 12:42:14,299 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/thomas19a/thomas19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-thomas19a-thomas19a.pdf.
2021-03-09 12:42:15,939 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/thulasidasan19a/thulasidasan19a.pdf to /var/folders/c/_ns1rsjk10x1cs
zkmwzj6_9w40000gq/T/v97-thulasidasan19a-thulasidasan19a.pdf.
2021-03-09 12:42:18,852 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tian19a/tian19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-tian19a-tian19a.pdf.
2021-03-09 12:42:21,350 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tiomoko19a/tiomoko19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-tiomoko19a-tiomoko19a.pdf.
2021-03-09 12:42:21,796 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tirinzoni19a/tirinzoni19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-tirinzoni19a-tirinzoni19a.pdf.
2021-03-09 12:42:22,158 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/titouan19a/titouan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-titouan19a-titouan19a.pdf.
2021-03-09 12:42:22,775 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tong19a/tong19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-tong19a-tong19a.pdf.
2021-03-09 12:42:24,297 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tran19a/tran19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-tran19a-tran19a.pdf.
2021-03-09 12:42:24,840 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tran19b/tran19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-tran19b-tran19b.pdf.
2021-03-09 12:42:25,960 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/trippe19a/trippe19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-trippe19a-trippe19a.pdf.
2021-03-09 12:42:26,798 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/trouleau19a/trouleau19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-trouleau19a-trouleau19a.pdf.
2021-03-09 12:42:27,421 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/tsakiris19a/tsakiris19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-tsakiris19a-tsakiris19a.pdf.
2021-03-09 12:42:27,721 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/turner19a/turner19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40
000gq/T/v97-turner19a-turner19a.pdf.
2021-03-09 12:42:30,100 [MainThread] [INFO] Retrieving http://proceedings.ml

```
r.press/v97/tzeng19a/tzeng19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-tzeng19a-tzeng19a.pdf.
2021-03-09 12:42:31,317 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/upadhyay19a/upadhyay19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-upadhyay19a-upadhyay19a.pdf.
2021-03-09 12:42:31,718 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/ustun19a/ustun19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-ustun19a-ustun19a.pdf.
2021-03-09 12:42:33,923 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/uurtio19a/uurtio19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-uurtio19a-uurtio19a.pdf.
2021-03-09 12:42:34,330 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/van-dijk19a/van-dijk19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-van-dijk19a-van-dijk19a.pdf.
2021-03-09 12:42:34,911 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/van-niekerk19a/van-niekerk19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-van-niekerk19a-van-niekerk19a.pdf.
2021-03-09 12:42:36,208 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/vargas19a/vargas19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-vargas19a-vargas19a.pdf.
2021-03-09 12:42:36,447 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/varma19a/varma19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-varma19a-varma19a.pdf.
2021-03-09 12:42:36,876 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/vedantam19a/vedantam19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-vedantam19a-vedantam19a.pdf.
2021-03-09 12:42:37,462 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/verma19a/verma19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-verma19a-verma19a.pdf.
2021-03-09 12:42:37,960 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/vinayak19a/vinayak19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-vinayak19a-vinayak19a.pdf.
2021-03-09 12:42:38,377 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/vladimirova19a/vladimirova19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-vladimirova19a-vladimirova19a.pdf.
2021-03-09 12:42:38,772 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/vlassis19a/vlassis19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-vlassis19a-vlassis19a.pdf.
2021-03-09 12:42:39,212 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/vorobev19a/vorobev19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-vorobev19a-vorobev19a.pdf.
2021-03-09 12:42:39,536 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/wagstaff19a/wagstaff19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-wagstaff19a-wagstaff19a.pdf.
2021-03-09 12:42:40,332 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/walker19a/walker19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-walker19a-walker19a.pdf.
2021-03-09 12:42:41,123 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/wang19a/wang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-wang19a-wang19a.pdf.
2021-03-09 12:42:41,772 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/wang19b/wang19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-wang19b-wang19b.pdf.
2021-03-09 12:42:42,323 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/wang19c/wang19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-wang19c-wang19c.pdf.
2021-03-09 12:42:42,718 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/wang19d/wang19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-wang19d-wang19d.pdf.
2021-03-09 12:42:45,180 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/wang19e/wang19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-wang19e-wang19e.pdf.
2021-03-09 12:42:45,983 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/wang19f/wang19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/v97-wang19f-wang19f.pdf.
```

2021-03-09 12:42:47,221 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19g/wang19g.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19g-wang19g.pdf.

2021-03-09 12:42:48,643 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19h/wang19h.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19h-wang19h.pdf.

2021-03-09 12:42:51,069 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19i/wang19i.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19i-wang19i.pdf.

2021-03-09 12:42:54,816 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19j/wang19j.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19j-wang19j.pdf.

2021-03-09 12:42:55,376 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19k/wang19k.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19k-wang19k.pdf.

2021-03-09 12:42:56,654 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19l/wang19l.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19l-wang19l.pdf.

2021-03-09 12:42:56,993 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19m/wang19m.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19m-wang19m.pdf.

2021-03-09 12:42:57,537 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19n/wang19n.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19n-wang19n.pdf.

2021-03-09 12:42:58,008 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19o/wang19o.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19o-wang19o.pdf.

2021-03-09 12:42:58,284 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19p/wang19p.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19p-wang19p.pdf.

2021-03-09 12:42:59,856 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wang19q/wang19q.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wang19q-wang19q.pdf.

2021-03-09 12:43:00,651 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ward19a/ward19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-ward19a-ward19a.pdf.

2021-03-09 12:43:01,661 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wei19a/wei19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wei19a-wei19a.pdf.

2021-03-09 12:43:03,392 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wei19b/wei19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-wei19b-wei19b.pdf.

2021-03-09 12:43:04,690 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/weisz19a/weisz19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-weisz19a-weisz19a.pdf.

2021-03-09 12:43:05,344 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/welleck19a/welleck19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-welleck19a-welleck19a.pdf.

2021-03-09 12:43:05,915 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/weng19a/weng19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-weng19a-weng19a.pdf.

2021-03-09 12:43:06,121 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wenliang19a/wenliang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-wenliang19a-wenliang19a.pdf.

2021-03-09 12:43:07,909 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/westphal19a/westphal19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_
9w40000gq/T/v97-westphal19a-westphal19a.pdf.

2021-03-09 12:43:08,379 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/whitehill19a/whitehill19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gq/T/v97-whitehill19a-whitehill19a.pdf.

2021-03-09 12:43:09,519 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wildner19a/wildner19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gq/T/v97-wildner19a-wildner19a.pdf.

2021-03-09 12:43:10,611 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/wilkinson19a/wilkinson19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj

6_9w40000gq/T/v97-wilkinson19a-wilkinson19a.pdf.
 2021-03-09 12:43:10,996 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/williamson19a/williamson19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmw
 zj6_9w40000gq/T/v97-williamson19a-williamson19a.pdf.
 2021-03-09 12:43:11,533 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/wiqqvist19a/wiqqvist19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
 40000gq/T/v97-wiqqvist19a-wiqqvist19a.pdf.
 2021-03-09 12:43:12,059 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/wong19a/wong19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
 q/T/v97-wong19a-wong19a.pdf.
 2021-03-09 12:43:12,922 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/wu19a/wu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-wu19a-wu19a.pdf.
 2021-03-09 12:43:13,889 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/wu19b/wu19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-wu19b-wu19b.pdf.
 2021-03-09 12:43:14,273 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/wu19c/wu19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-wu19c-wu19c.pdf.
 2021-03-09 12:43:14,712 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/wu19d/wu19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-wu19d-wu19d.pdf.
 2021-03-09 12:43:15,183 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/wu19e/wu19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-wu19e-wu19e.pdf.
 2021-03-09 12:43:15,835 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/wu19f/wu19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-wu19f-wu19f.pdf.
 2021-03-09 12:43:16,804 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/xie19a/xie19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
 T/v97-xie19a-xie19a.pdf.
 2021-03-09 12:43:19,185 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/xie19b/xie19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
 T/v97-xie19b-xie19b.pdf.
 2021-03-09 12:43:19,510 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/xie19c/xie19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/
 T/v97-xie19c-xie19c.pdf.
 2021-03-09 12:43:20,191 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/xing19a/xing19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
 q/T/v97-xing19a-xing19a.pdf.
 2021-03-09 12:43:20,671 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/xu19a/xu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-xu19a-xu19a.pdf.
 2021-03-09 12:43:21,081 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/xu19b/xu19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-xu19b-xu19b.pdf.
 2021-03-09 12:43:21,665 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/xu19c/xu19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-xu19c-xu19c.pdf.
 2021-03-09 12:43:22,047 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/xu19d/xu19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-xu19d-xu19d.pdf.
 2021-03-09 12:43:24,260 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/xu19e/xu19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gq/T/
 v97-xu19e-xu19e.pdf.
 2021-03-09 12:43:27,007 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/yadav19a/yadav19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
 0gq/T/v97-yadav19a-yadav19a.pdf.
 2021-03-09 12:43:27,552 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/yang19a/yang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
 q/T/v97-yang19a-yang19a.pdf.
 2021-03-09 12:43:28,202 [MainThread] [INFO] Retrieving http://proceedings.ml
 r.press/v97/yang19b/yang19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
 q/T/v97-yang19b-yang19b.pdf.
 2021-03-09 12:43:28,612 [MainThread] [INFO] Retrieving http://proceedings.ml

r.press/v97/yang19c/yang19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-yang19c-yang19c.pdf.
2021-03-09 12:43:29,465 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yang19d/yang19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-yang19d-yang19d.pdf.
2021-03-09 12:43:30,136 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yang19e/yang19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-yang19e-yang19e.pdf.
2021-03-09 12:43:34,067 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yao19a/yao19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yao19a-yao19a.pdf.
2021-03-09 12:43:34,596 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yao19b/yao19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yao19b-yao19b.pdf.
2021-03-09 12:43:35,670 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yasuda19a/yasuda19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40
000gq/T/v97-yasuda19a-yasuda19a.pdf.
2021-03-09 12:43:35,985 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ye19a/ye19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-ye19a-ye19a.pdf.
2021-03-09 12:43:36,506 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yin19a/yin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yin19a-yin19a.pdf.
2021-03-09 12:43:36,810 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yin19b/yin19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yin19b-yin19b.pdf.
2021-03-09 12:43:37,322 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yin19c/yin19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yin19c-yin19c.pdf.
2021-03-09 12:43:38,374 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/ying19a/ying19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-ying19a-ying19a.pdf.
2021-03-09 12:43:39,066 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yoon19a/yoon19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-yoon19a-yoon19a.pdf.
2021-03-09 12:43:39,519 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/you19a/you19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-you19a-you19a.pdf.
2021-03-09 12:43:39,876 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/you19b/you19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-you19b-you19b.pdf.
2021-03-09 12:43:40,209 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/young19a/young19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0gq/T/v97-young19a-young19a.pdf.
2021-03-09 12:43:42,001 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yu19a/yu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yu19a-yu19a.pdf.
2021-03-09 12:43:42,467 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yu19b/yu19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yu19b-yu19b.pdf.
2021-03-09 12:43:43,162 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yu19c/yu19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yu19c-yu19c.pdf.
2021-03-09 12:43:44,431 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yu19d/yu19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yu19d-yu19d.pdf.
2021-03-09 12:43:44,976 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yu19e/yu19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yu19e-yu19e.pdf.
2021-03-09 12:43:45,839 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yu19f/yu19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/
T/v97-yu19f-yu19f.pdf.
2021-03-09 12:43:47,515 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yuan19a/yuan19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-yuan19a-yuan19a.pdf.

2021-03-09 12:43:48,988 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yuan19b/yuan19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-yuan19b-yuan19b.pdf.

2021-03-09 12:43:50,095 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yuan19c/yuan19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-yuan19c-yuan19c.pdf.

2021-03-09 12:43:50,903 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yun19a/yun19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000gqq/
T/v97-yun19a-yun19a.pdf.

2021-03-09 12:43:52,090 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yurochkin19a/yurochkin19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gqq/T/v97-yurochkin19a-yurochkin19a.pdf.

2021-03-09 12:43:56,068 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yurochkin19b/yurochkin19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gqq/T/v97-yurochkin19b-yurochkin19b.pdf.

2021-03-09 12:44:01,861 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yurtsever19a/yurtsever19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gqq/T/v97-yurtsever19a-yurtsever19a.pdf.

2021-03-09 12:44:02,841 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/yurtsever19b/yurtsever19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj
6_9w40000gqq/T/v97-yurtsever19b-yurtsever19b.pdf.

2021-03-09 12:44:03,402 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zablocki19a/zablocki19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gqq/T/v97-zablocki19a-zablocki19a.pdf.

2021-03-09 12:44:04,472 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zanette19a/zanette19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w
40000gqq/T/v97-zanette19a-zanette19a.pdf.

2021-03-09 12:44:04,922 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zeng19a/zeng19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w40000g
q/T/v97-zeng19a-zeng19a.pdf.

2021-03-09 12:44:05,309 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19a/zhang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19a-zhang19a.pdf.

2021-03-09 12:44:06,599 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19b/zhang19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19b-zhang19b.pdf.

2021-03-09 12:44:10,189 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19c/zhang19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19c-zhang19c.pdf.

2021-03-09 12:44:10,466 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19d/zhang19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19d-zhang19d.pdf.

2021-03-09 12:44:12,962 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19e/zhang19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19e-zhang19e.pdf.

2021-03-09 12:44:13,810 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19f/zhang19f.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19f-zhang19f.pdf.

2021-03-09 12:44:14,121 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19g/zhang19g.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19g-zhang19g.pdf.

2021-03-09 12:44:14,969 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19h/zhang19h.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19h-zhang19h.pdf.

2021-03-09 12:44:15,540 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19i/zhang19i.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19i-zhang19i.pdf.

2021-03-09 12:44:17,092 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19j/zhang19j.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19j-zhang19j.pdf.

2021-03-09 12:44:17,500 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19k/zhang19k.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000
0gqq/T/v97-zhang19k-zhang19k.pdf.

2021-03-09 12:44:20,975 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19l/zhang19l.pdf to /var/folders/c/_ns1rsjk10x1cszkmwzj6_9w4000

0qq/T/v97-zhang19l-zhang19l.pdf.
2021-03-09 12:44:21,647 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19m/zhang19m.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0qq/T/v97-zhang19m-zhang19m.pdf.
2021-03-09 12:44:23,396 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19n/zhang19n.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0qq/T/v97-zhang19n-zhang19n.pdf.
2021-03-09 12:44:23,810 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19o/zhang19o.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0qq/T/v97-zhang19o-zhang19o.pdf.
2021-03-09 12:44:24,252 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19p/zhang19p.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0qq/T/v97-zhang19p-zhang19p.pdf.
2021-03-09 12:44:24,818 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19q/zhang19q.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0qq/T/v97-zhang19q-zhang19q.pdf.
2021-03-09 12:44:25,784 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19r/zhang19r.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0qq/T/v97-zhang19r-zhang19r.pdf.
2021-03-09 12:44:26,168 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19s/zhang19s.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000
0qq/T/v97-zhang19s-zhang19s.pdf.
2021-03-09 12:44:28,434 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhang19t/zhang19t.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhang19t-zhang19t.pdf.
2021-03-09 12:44:29,425 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhaol19a/zhaol19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhaol19a-zhaol19a.pdf.
2021-03-09 12:44:29,922 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhaol19b/zhaol19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhaol19b-zhaol19b.pdf.
2021-03-09 12:44:30,452 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhaol19c/zhaol19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhaol19c-zhaol19c.pdf.
2021-03-09 12:44:30,753 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhaol19d/zhaol19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhaol19d-zhaol19d.pdf.
2021-03-09 12:44:32,307 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhou19a/zhou19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhou19a-zhou19a.pdf.
2021-03-09 12:44:33,023 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhou19b/zhou19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhou19b-zhou19b.pdf.
2021-03-09 12:44:33,329 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhou19c/zhou19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhou19c-zhou19c.pdf.
2021-03-09 12:44:34,616 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhou19d/zhou19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhou19d-zhou19d.pdf.
2021-03-09 12:44:35,687 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhou19e/zhou19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhou19e-zhou19e.pdf.
2021-03-09 12:44:36,434 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhu19a/zhu19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhu19a-zhu19a.pdf.
2021-03-09 12:44:38,778 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhu19b/zhu19b.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhu19b-zhu19b.pdf.
2021-03-09 12:44:39,065 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhu19c/zhu19c.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhu19c-zhu19c.pdf.
2021-03-09 12:44:39,859 [MainThread] [INFO] Retrieving http://proceedings.ml
r.press/v97/zhu19d/zhu19d.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000g
q/T/v97-zhu19d-zhu19d.pdf.
2021-03-09 12:44:42,181 [MainThread] [INFO] Retrieving http://proceedings.ml

```
r.press/v97/zhu19e/zhu19e.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w40000gq/T/v97-zhu19e-zhu19e.pdf.
2021-03-09 12:44:45,308 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/zhuang19a/zhuang19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-zhuang19a-zhuang19a.pdf.
2021-03-09 12:44:45,608 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/ziegler19a/ziegler19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-ziegler19a-ziegler19a.pdf.
2021-03-09 12:44:46,932 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/zimmert19a/zimmert19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-zimmert19a-zimmert19a.pdf.
2021-03-09 12:44:47,423 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/zintgraf19a/zintgraf19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-zintgraf19a-zintgraf19a.pdf.
2021-03-09 12:44:47,801 [MainThread ] [INFO ] Retrieving http://proceedings.ml
r.press/v97/zrnic19a/zrnic19a.pdf to /var/folders/c/_ns1rsjk10x1cszkmwj6_9w4000gq/T/v97-zrnic19a-zrnic19a.pdf.
Top 10 words:
['model', 'which', '2018', 'data', '2017', 'where', 'algorithm', 'each', 'not', 'neural']
```

In [166...]

```
entropy = 0

rand_word = random.randint(0, len(words))
rand_paper = random.randint(0, len(papers))
total_words = sum(count.values())
for word, num_word in count.items():

    word_probability = num_word/total_words
    entropy += (-1)*word_probability*np.log2(word_probability)

print(entropy)
```

12.441054551885085

In [167...]

```
probabilities = []
choice_words = []
for word, num in count.items():
    choice_words.append(word)
    probabilities.append(num/total_words)

random_words = choices(choice_words, probabilities, k=40)
paragraph = ' '.join(random_words)
print(paragraph)
```

0d formulas dimensions duplication 2010 death twice could φpp hidden min numeric
al gan predictions ge those versarial propose 2011 sampling been prior latent dr
7 inc approach outperforms ideal number use q deep sample one pp carlo non lt ad
apt

Problem 3:

Logistic Regression. The following is a logistic regression problem using a real data set, made available by the authorsof the book "Applied Regression and Multilevel Modeling" by Gelman and Hill.

Download the data from the book, which you can find here <http://www.stat.columbia.edu/~gelman/arm/software/>. In particular, we are interested in the arsenic data set. The file wells.dat contains data on 3,020 households in Bangladesh. For each family, the natural arsenic level of each well was measured. In addition, the distance to the nearest safest well was measured. Each family is also described by a feature that relates to their community involvement, and a feature that gives the education level of the head of household. We are interested in building a model that predicts whether the family decided to switch wells or not, based on being informed of the level of arsenic in the well. Thus the "label" for this problem is the binary vector that is the first column of the dataset, labeled "switch."

- Fit a logistic regression model using only an offset term and the distance to the nearest safe well.
- Plot your answer: that is, plot the probability of switching wells as a function of the distance to the nearest safe well.
- Interpreting logistic regression coefficients: Use the "rule-of-4" discussed in class on Thursday, to interpret the solution: what can you say about the change in the probability of switching wells, for every additional 100 meters of distance?
- Now solve a logistic regression incorporating the constant term, the distance and also arsenic levels. Report the coefficients
- Next we want to answer the question of which factor is more significant, distance, or arsenic levels? This is not a well specified question, since these two features have different units. One natural choice is to ask if after normalizing by the respective standard deviations of each feature, if moving one unit in one (normalized) feature predicts a larger change in probability of switching wells, than moving one unit in the other (also normalized) feature. Use this reasoning to answer the question.
- Now consider all the features in the data set. Also consider adding interaction terms among all features that have a large main effect. Use cross validation to build the best model you can (using your training set only), and then report the test error of your best model.1

```
In [168...]: wells = pd.read_csv("./arsenic/wells.dat", sep=' ')
wells.head()
```

	switch	arsenic	dist	assoc	educ
1	1	2.36	16.826000	0	0
2	1	0.71	47.321999	0	0
3	0	2.07	20.966999	0	10
4	1	1.15	21.486000	0	12
5	1	1.10	40.874001	1	14

- Fit a logistic regression model using only an offset term and the distance to the nearest safe well.

- Plot your answer: that is, plot the probability of switching wells as a function of the distance to the nearest safe well.
- Interpreting logistic regression coefficients: Use the “rule-of-4” discussed in class on Thursday, to interpret the solution: what can you say about the change in the probability of switching wells, for every additional 100 meters of distance?

In [169]:

```

bias = np.ones(wells.shape[0]).T
dist = wells.values[:, 2]
max_dist = int(max(dist))
#print(dist)
X = np.stack((bias, dist), axis=-1)
switch = wells.values[:, 0]

clf = sklearn.linear_model.LogisticRegression(C=1000000, solver="liblinear")
model = clf.fit(X, switch)
dist_arr = np.array([i for i in range(max_dist)])
dist_matrix = np.stack((np.ones(max_dist), dist_arr), axis=-1)

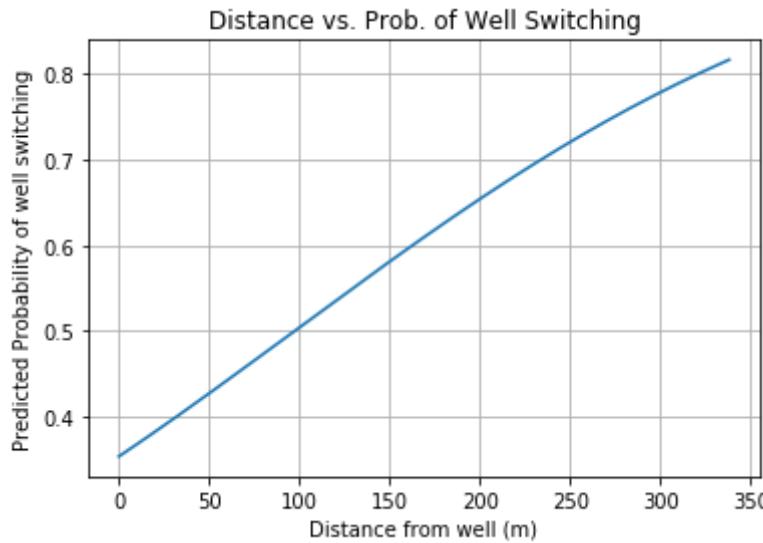
prob_pred = model.predict_proba(dist_matrix)

plt.plot(dist_arr, prob_pred[:, 0])
plt.xlabel("Distance from well (m)")
plt.ylabel("Predicted Probability of well switching")
plt.title("Distance vs. Prob. of Well Switching")
plt.grid()
plt.show()

print("Model coefficients: " + str(model.coef_))

print("Rule of 4: " + str(abs(model.coef_[0][1]/4) * 100) + "% increase in proba")

```



Model coefficients: [[0.30297742 -0.00621875]]
 Rule of 4: 0.1554687802438503% increase in probability of switching wells for every meter of distance

- Now solve a logistic regression incorporating the constant term, the distance and also arsenic levels. Report the coefficients

• Next we want to answer the question of which factor is more significant, distance, or arsenic levels? This is not a well specified question, since these two features have different units. One natural choice is to ask if after normalizing by the respective standard deviations of each feature, if moving one unit in one (normalized) feature predicts a larger change in probability of switching wells, than moving one unit in the other (also normalized) feature. Use this reasoning to answer the question.

• Now consider all the features in the data set. Also consider adding interaction terms among all features that have a large main effect. Use cross validation to build the best model you can (using your training set only), and then report the test error of your best model.

```
In [170...]: from mpl_toolkits.mplot3d import Axes3D # <--- This is important for 3d plotting

arsenic_and_distance = np.stack((wells.values[:,1], dist), axis=-1)
#print(arsenic_and_distance)
mean = np.mean(arsenic_and_distance, axis=0)
std = np.std(arsenic_and_distance, axis=0)
normalized_ad = ((arsenic_and_distance)-mean)/std

regression_X = np.column_stack((np.ones(wells.shape[0]).T, normalized_ad))

clf2 = sklearn.linear_model.LogisticRegression(C=1000000, solver="liblinear")
model2 = clf2.fit(regression_X, switch)
print(fitted_model2.coef_)

print("From the coefficients, we can see that arsenic levels impact the probabil")
print("Thus, it follows that arsenic levels more significantly contribute to the")

#####
dist_arr = np.array([i for i in range(max_dist)])
arsenic_arr = np.array([wells.values[i, 1] for i in range(max_dist)])
dist_matrix = np.stack((np.ones(max_dist), arsenic_arr, dist_arr),axis=-1)

prob_pred = model2.predict_proba(dist_matrix)

fig = plt.figure()
ax = plt.axes(projection='3d')
ax.set_xlabel("Distance (m)")
ax.set_ylabel("arsenic values")
ax.set_zlabel("probability")
ax.plot3D(dist_arr, arsenic_arr, prob_pred[:, 0], 'red')
plt.show()
#####

# Comment out before final submission? I just wanted to try it.. Not sure the pl

plt.plot(dist_arr, prob_pred[:, 0])
plt.xlabel("Distance from well (m)")
plt.ylabel("Predicted Probability of well switching")
plt.title("Distance vs. Prob. of Well Switching")
```

```

plt.grid()
plt.show()

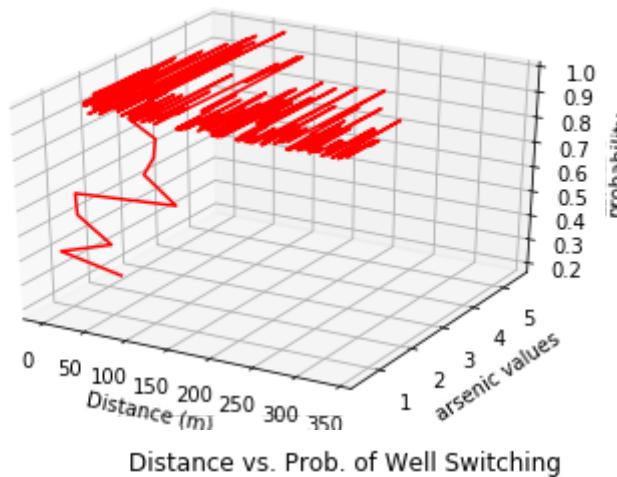
plt.plot(arsenic_arr, prob_pred[:, 0])
plt.xlabel("Arsenic Levels")
plt.ylabel("Predicted Probability of well switching")
plt.title("Distance vs. Prob. of Well Switching")
plt.grid()
plt.show()

```

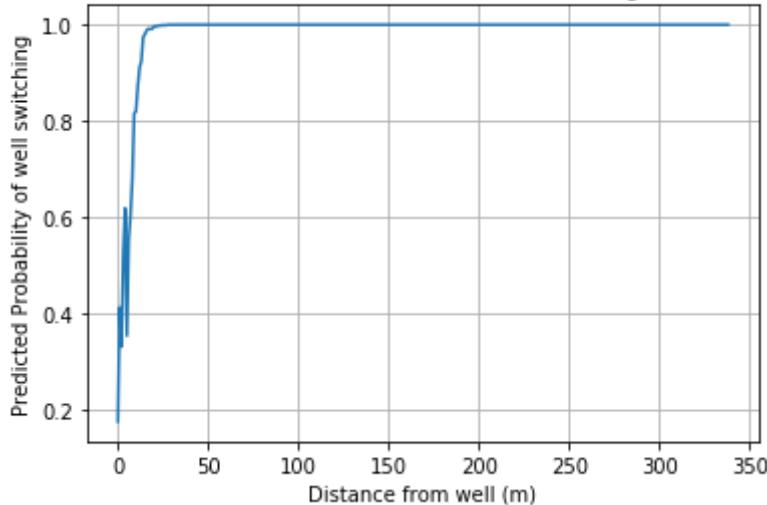
`[[0.16642635 0.51016231 -0.34495391]]`

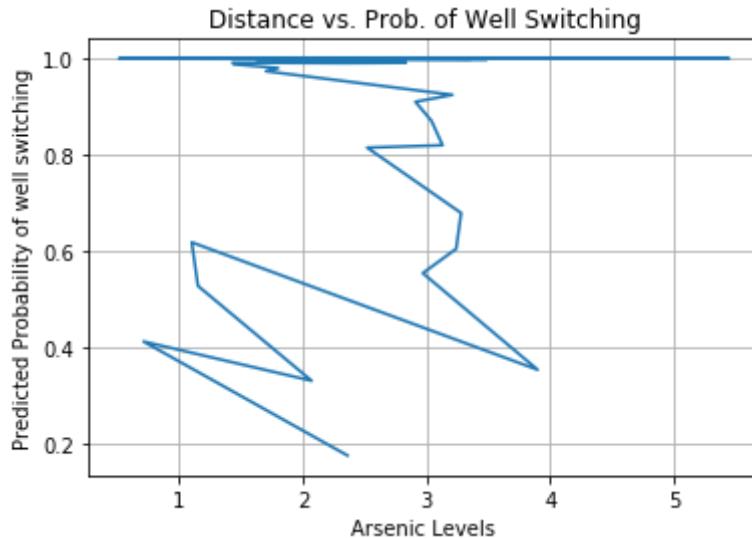
From the coefficients, we can see that arsenic levels impact the probability of switching wells with magnitude 0.51 as opposed to distance that impacts with magnitude -0.345

Thus, it follows that arsenic levels more significantly contribute to the probability of well-switching



Distance vs. Prob. of Well Switching





In [17]:

```

all_features = wells.values[:, 4]
normalized_af = (all_features - np.mean(all_features, axis=0))/np.std(all_features)
all_cols = [regression_X, np.array(wells.values[:, 3]).T, normalized_af]
regression_X2 = np.column_stack(all_cols)

Cs = [10000000, 1000000, 100000, 10000, 1000, 100, 10, 1]

rand_cv = random.randint(10,int(regression_X2.shape[0]/30))
print("CV value: " + str(rand_cv))
clfCV = sklearn.linear_model.LogisticRegressionCV(Cs=Cs, cv=rand_cv).fit(regression_X2, switch)

print("Cross Validation Score = " + str(clfCV.score(regression_X2, switch)))

```

CV value: 15
Cross Validation Score = 0.6165562913907284

In []:

Problem 4:

Logistic Regression and CIFAR-10. In this problem you will explore the data set CIFAR-10, and you will use multinomial (multi-label) Logistic Regression to try to classify it. You will also explore visualizing the solution.

In [11]:

```

import sklearn.datasets as ds
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score
from sklearn.model_selection import cross_val_score

```

In [3]:

```
# Use the fetch_openml command from sklearn.datasets to import the CIFAR-10-Small
cifar = ds.fetch_openml('CIFAR_10_small')
```

In [4]:

```
cifar.data.shape
```

Out[4]: (20000, 3072)

In [5]: cifar

```
Out[5]: {'data':      a0      a1      a2      a3      a4      a5      a6      a7      a8
a9 \
 0      59.0    43.0    50.0    68.0    98.0   119.0   139.0   145.0   149.0   149.0
 1     154.0   126.0   105.0   102.0   125.0   155.0   172.0   180.0   142.0   111.0
 2     255.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0
 3      28.0    37.0    38.0    42.0    44.0    40.0    40.0    24.0    32.0    43.0
 4     170.0   168.0   177.0   183.0   181.0   177.0   181.0   184.0   189.0   189.0
...
 19995   76.0    76.0    77.0    76.0    75.0    76.0    76.0    76.0    76.0    78.0
 19996   81.0    91.0    98.0   106.0   108.0   110.0   80.0    84.0    88.0    90.0
 19997   20.0    19.0    15.0    15.0    14.0    13.0    12.0    11.0    10.0    9.0
 19998   25.0    15.0    23.0    17.0    23.0    51.0    74.0    91.0   114.0   137.0
 19999   73.0    98.0    99.0    77.0    59.0   146.0   214.0   176.0   125.0   218.0

      ...  a3062  a3063  a3064  a3065  a3066  a3067  a3068  a3069  a3070 \
 0      ...  59.0   58.0   65.0   59.0   46.0   57.0  104.0  140.0   84.0
 1      ...  22.0   42.0   67.0  101.0  122.0  133.0  136.0  139.0  142.0
 2      ...  78.0   83.0   80.0   69.0   66.0   72.0   79.0   83.0   83.0
 3      ...  53.0   39.0   59.0   42.0   44.0   48.0   38.0   28.0   37.0
 4      ...  92.0   88.0   85.0   82.0   83.0   79.0   78.0   82.0   78.0
...
 19995   ... 228.0  185.0  177.0  223.0  239.0  239.0  235.0  236.0  234.0
 19996   ... 126.0  107.0  143.0  155.0  156.0  160.0  173.0  129.0  147.0
 19997   ... 114.0  112.0   68.0   50.0   52.0   52.0   51.0   50.0   53.0
 19998   ...  87.0   84.0   83.0   84.0   79.0   78.0   78.0   80.0   81.0
 19999   ...  84.0   89.0   88.0   85.0   93.0   93.0   90.0   94.0   58.0

      a3071
 0      72.0
 1     144.0
 2      84.0
 3      46.0
 4      80.0
...
 19995   236.0
 19996   160.0
 19997   47.0
 19998   80.0
 19999   26.0

[20000 rows x 3072 columns],
'target': 0          6
 1          9
 2          9
 3          4
 4          1
...
 19995     8
 19996     3
 19997     5
 19998     1
 19999     7
Name: class, Length: 20000, dtype: category
Categories (10, object): ['0', '1', '2', '3', ..., '6', '7', '8', '9'],
'frame':      a0      a1      a2      a3      a4      a5      a6      a7      a8
a9 \
 0      59.0    43.0    50.0    68.0    98.0   119.0   139.0   145.0   149.0   149.0
 1     154.0   126.0   105.0   102.0   125.0   155.0   172.0   180.0   142.0   111.0
 2     255.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0
```

Lab5

	3	28.0	37.0	38.0	42.0	44.0	40.0	40.0	24.0	32.0	43.0
	4	170.0	168.0	177.0	183.0	181.0	177.0	181.0	184.0	189.0	189.0

19995		76.0	76.0	77.0	76.0	75.0	76.0	76.0	76.0	76.0	78.0
19996		81.0	91.0	98.0	106.0	108.0	110.0	80.0	84.0	88.0	90.0
19997		20.0	19.0	15.0	15.0	14.0	13.0	12.0	11.0	10.0	9.0
19998		25.0	15.0	23.0	17.0	23.0	51.0	74.0	91.0	114.0	137.0
19999		73.0	98.0	99.0	77.0	59.0	146.0	214.0	176.0	125.0	218.0

	...	a3063	a3064	a3065	a3066	a3067	a3068	a3069	a3070	a3071	\
0	...	58.0	65.0	59.0	46.0	57.0	104.0	140.0	84.0	72.0	
1	...	42.0	67.0	101.0	122.0	133.0	136.0	139.0	142.0	144.0	
2	...	83.0	80.0	69.0	66.0	72.0	79.0	83.0	83.0	84.0	
3	...	39.0	59.0	42.0	44.0	48.0	38.0	28.0	37.0	46.0	
4	...	88.0	85.0	82.0	83.0	79.0	78.0	82.0	78.0	80.0	
	
19995	...	185.0	177.0	223.0	239.0	239.0	235.0	236.0	234.0	236.0	
19996	...	107.0	143.0	155.0	156.0	160.0	173.0	129.0	147.0	160.0	
19997	...	112.0	68.0	50.0	52.0	52.0	51.0	50.0	53.0	47.0	
19998	...	84.0	83.0	84.0	79.0	78.0	78.0	80.0	81.0	80.0	
19999	...	89.0	88.0	85.0	93.0	93.0	90.0	94.0	58.0	26.0	

class

	0	1	2	3	4	...	19995	19996	19997	19998	19999
0	6					...	8	3	5	1	7
1		9									
2			9								
3				4							
4					1						

```
[20000 rows x 3073 columns],
'categories': None,
'feature_names': ['a0',
 'a1',
 'a2',
 'a3',
 'a4',
 'a5',
 'a6',
 'a7',
 'a8',
 'a9',
 'a10',
 'a11',
 'a12',
 'a13',
 'a14',
 'a15',
 'a16',
 'a17',
 'a18',
 'a19',
 'a20',
 'a21',
 'a22',
 'a23',
 'a24',
 'a25',
 'a26',
 'a27'],
```

```
'a28',
'a29',
'a30',
'a31',
'a32',
'a33',
'a34',
'a35',
'a36',
'a37',
'a38',
'a39',
'a40',
'a41',
'a42',
'a43',
'a44',
'a45',
'a46',
'a47',
'a48',
'a49',
'a50',
'a51',
'a52',
'a53',
'a54',
'a55',
'a56',
'a57',
'a58',
'a59',
'a60',
'a61',
'a62',
'a63',
'a64',
'a65',
'a66',
'a67',
'a68',
'a69',
'a70',
'a71',
'a72',
'a73',
'a74',
'a75',
'a76',
'a77',
'a78',
'a79',
'a80',
'a81',
'a82',
'a83',
'a84',
'a85',
'a86',
'a87',
'a88',
'a89',
'a90',
'a91',
'a92',
```

```
'a93',
'a94',
'a95',
'a96',
'a97',
'a98',
'a99',
'a100',
'a101',
'a102',
'a103',
'a104',
'a105',
'a106',
'a107',
'a108',
'a109',
'a110',
'a111',
'a112',
'a113',
'a114',
'a115',
'a116',
'a117',
'a118',
'a119',
'a120',
'a121',
'a122',
'a123',
'a124',
'a125',
'a126',
'a127',
'a128',
'a129',
'a130',
'a131',
'a132',
'a133',
'a134',
'a135',
'a136',
'a137',
'a138',
'a139',
'a140',
'a141',
'a142',
'a143',
'a144',
'a145',
'a146',
'a147',
'a148',
'a149',
'a149',
'a150',
'a151',
'a152',
'a153',
'a154',
'a155',
'a156',
'a157',
```

```
'a158',
'a159',
'a160',
'a161',
'a162',
'a163',
'a164',
'a165',
'a166',
'a167',
'a168',
'a169',
'a170',
'a171',
'a172',
'a173',
'a174',
'a175',
'a176',
'a177',
'a178',
'a179',
'a180',
'a181',
'a182',
'a183',
'a184',
'a185',
'a186',
'a187',
'a188',
'a189',
'a190',
'a191',
'a192',
'a193',
'a194',
'a195',
'a196',
'a197',
'a198',
'a199',
'a200',
'a201',
'a202',
'a203',
'a204',
'a205',
'a206',
'a207',
'a208',
'a209',
'a210',
'a211',
'a212',
'a213',
'a214',
'a215',
'a216',
'a217',
'a218',
'a219',
'a220',
'a221',
'a222',
```

```
'a223',
'a224',
'a225',
'a226',
'a227',
'a228',
'a229',
'a230',
'a231',
'a232',
'a233',
'a234',
'a235',
'a236',
'a237',
'a238',
'a239',
'a240',
'a241',
'a242',
'a243',
'a244',
'a245',
'a246',
'a247',
'a248',
'a249',
'a250',
'a251',
'a252',
'a253',
'a254',
'a255',
'a256',
'a257',
'a258',
'a259',
'a260',
'a261',
'a262',
'a263',
'a264',
'a265',
'a266',
'a267',
'a268',
'a269',
'a270',
'a271',
'a272',
'a273',
'a274',
'a275',
'a276',
'a277',
'a278',
'a279',
'a280',
'a281',
'a282',
'a283',
'a284',
'a285',
'a286',
'a287',
```

```
'a288',
'a289',
'a290',
'a291',
'a292',
'a293',
'a294',
'a295',
'a296',
'a297',
'a298',
'a299',
'a300',
'a301',
'a302',
'a303',
'a304',
'a305',
'a306',
'a307',
'a308',
'a309',
'a310',
'a311',
'a312',
'a313',
'a314',
'a315',
'a316',
'a317',
'a318',
'a319',
'a320',
'a321',
'a322',
'a323',
'a324',
'a325',
'a326',
'a327',
'a328',
'a329',
'a330',
'a331',
'a332',
'a333',
'a334',
'a335',
'a336',
'a337',
'a338',
'a339',
'a340',
'a341',
'a342',
'a343',
'a344',
'a345',
'a346',
'a347',
'a348',
'a349',
'a350',
'a351',
'a352',
```

```
'a353',
'a354',
'a355',
'a356',
'a357',
'a358',
'a359',
'a360',
'a361',
'a362',
'a363',
'a364',
'a365',
'a366',
'a367',
'a368',
'a369',
'a370',
'a371',
'a372',
'a373',
'a374',
'a375',
'a376',
'a377',
'a378',
'a379',
'a380',
'a381',
'a382',
'a383',
'a384',
'a385',
'a386',
'a387',
'a388',
'a389',
'a390',
'a391',
'a392',
'a393',
'a394',
'a395',
'a396',
'a397',
'a398',
'a399',
'a400',
'a401',
'a402',
'a403',
'a404',
'a405',
'a406',
'a407',
'a408',
'a409',
'a410',
'a411',
'a412',
'a413',
'a414',
'a415',
'a416',
'a417',
```

```
'a418',
'a419',
'a420',
'a421',
'a422',
'a423',
'a424',
'a425',
'a426',
'a427',
'a428',
'a429',
'a430',
'a431',
'a432',
'a433',
'a434',
'a435',
'a436',
'a437',
'a438',
'a439',
'a440',
'a441',
'a442',
'a443',
'a444',
'a445',
'a446',
'a447',
'a448',
'a449',
'a450',
'a451',
'a452',
'a453',
'a454',
'a455',
'a456',
'a457',
'a458',
'a459',
'a460',
'a461',
'a462',
'a463',
'a464',
'a465',
'a466',
'a467',
'a468',
'a469',
'a470',
'a471',
'a472',
'a473',
'a474',
'a475',
'a476',
'a477',
'a478',
'a479',
'a480',
'a481',
'a482',
```

```
'a483',
'a484',
'a485',
'a486',
'a487',
'a488',
'a489',
'a490',
'a491',
'a492',
'a493',
'a494',
'a495',
'a496',
'a497',
'a498',
'a499',
'a500',
'a501',
'a502',
'a503',
'a504',
'a505',
'a506',
'a507',
'a508',
'a509',
'a510',
'a511',
'a512',
'a513',
'a514',
'a515',
'a516',
'a517',
'a518',
'a519',
'a520',
'a521',
'a522',
'a523',
'a524',
'a525',
'a526',
'a527',
'a528',
'a529',
'a530',
'a531',
'a532',
'a533',
'a534',
'a535',
'a536',
'a537',
'a538',
'a539',
'a540',
'a541',
'a542',
'a543',
'a544',
'a545',
'a546',
'a547',
```

```
'a548',
'a549',
'a550',
'a551',
'a552',
'a553',
'a554',
'a555',
'a556',
'a557',
'a558',
'a559',
'a560',
'a561',
'a562',
'a563',
'a564',
'a565',
'a566',
'a567',
'a568',
'a569',
'a570',
'a571',
'a572',
'a573',
'a574',
'a575',
'a576',
'a577',
'a578',
'a579',
'a580',
'a581',
'a582',
'a583',
'a584',
'a585',
'a586',
'a587',
'a588',
'a589',
'a590',
'a591',
'a592',
'a593',
'a594',
'a595',
'a596',
'a597',
'a598',
'a599',
'a600',
'a601',
'a602',
'a603',
'a604',
'a605',
'a606',
'a607',
'a608',
'a609',
'a610',
'a611',
'a612',
```

```
'a613',
'a614',
'a615',
'a616',
'a617',
'a618',
'a619',
'a620',
'a621',
'a622',
'a623',
'a624',
'a625',
'a626',
'a627',
'a628',
'a629',
'a630',
'a631',
'a632',
'a633',
'a634',
'a635',
'a636',
'a637',
'a638',
'a639',
'a640',
'a641',
'a642',
'a643',
'a644',
'a645',
'a646',
'a647',
'a648',
'a649',
'a650',
'a651',
'a652',
'a653',
'a654',
'a655',
'a656',
'a657',
'a658',
'a659',
'a660',
'a661',
'a662',
'a663',
'a664',
'a665',
'a666',
'a667',
'a668',
'a669',
'a670',
'a671',
'a672',
'a673',
'a674',
'a675',
'a676',
'a677',
```

```
'a678',
'a679',
'a680',
'a681',
'a682',
'a683',
'a684',
'a685',
'a686',
'a687',
'a688',
'a689',
'a690',
'a691',
'a692',
'a693',
'a694',
'a695',
'a696',
'a697',
'a698',
'a699',
'a700',
'a701',
'a702',
'a703',
'a704',
'a705',
'a706',
'a707',
'a708',
'a709',
'a710',
'a711',
'a712',
'a713',
'a714',
'a715',
'a716',
'a717',
'a718',
'a719',
'a720',
'a721',
'a722',
'a723',
'a724',
'a725',
'a726',
'a727',
'a728',
'a729',
'a730',
'a731',
'a732',
'a733',
'a734',
'a735',
'a736',
'a737',
'a738',
'a739',
'a740',
'a741',
'a742',
```

```
'a743',
'a744',
'a745',
'a746',
'a747',
'a748',
'a749',
'a750',
'a751',
'a752',
'a753',
'a754',
'a755',
'a756',
'a757',
'a758',
'a759',
'a760',
'a761',
'a762',
'a763',
'a764',
'a765',
'a766',
'a767',
'a768',
'a769',
'a770',
'a771',
'a772',
'a773',
'a774',
'a775',
'a776',
'a777',
'a778',
'a779',
'a780',
'a781',
'a782',
'a783',
'a784',
'a785',
'a786',
'a787',
'a788',
'a789',
'a790',
'a791',
'a792',
'a793',
'a794',
'a795',
'a796',
'a797',
'a798',
'a799',
'a800',
'a801',
'a802',
'a803',
'a804',
'a805',
'a806',
'a807',
```

```
'a808',
'a809',
'a810',
'a811',
'a812',
'a813',
'a814',
'a815',
'a816',
'a817',
'a818',
'a819',
'a820',
'a821',
'a822',
'a823',
'a824',
'a825',
'a826',
'a827',
'a828',
'a829',
'a830',
'a831',
'a832',
'a833',
'a834',
'a835',
'a836',
'a837',
'a838',
'a839',
'a840',
'a841',
'a842',
'a843',
'a844',
'a845',
'a846',
'a847',
'a848',
'a849',
'a850',
'a851',
'a852',
'a853',
'a854',
'a855',
'a856',
'a857',
'a858',
'a859',
'a860',
'a861',
'a862',
'a863',
'a864',
'a865',
'a866',
'a867',
'a868',
'a869',
'a870',
'a871',
'a872',
```

```
'a873',
'a874',
'a875',
'a876',
'a877',
'a878',
'a879',
'a880',
'a881',
'a882',
'a883',
'a884',
'a885',
'a886',
'a887',
'a888',
'a889',
'a890',
'a891',
'a892',
'a893',
'a894',
'a895',
'a896',
'a897',
'a898',
'a899',
'a900',
'a901',
'a902',
'a903',
'a904',
'a905',
'a906',
'a907',
'a908',
'a909',
'a910',
'a911',
'a912',
'a913',
'a914',
'a915',
'a916',
'a917',
'a918',
'a919',
'a920',
'a921',
'a922',
'a923',
'a924',
'a925',
'a926',
'a927',
'a928',
'a929',
'a930',
'a931',
'a932',
'a933',
'a934',
'a935',
'a936',
'a937',
```

```
'a938',
'a939',
'a940',
'a941',
'a942',
'a943',
'a944',
'a945',
'a946',
'a947',
'a948',
'a949',
'a950',
'a951',
'a952',
'a953',
'a954',
'a955',
'a956',
'a957',
'a958',
'a959',
'a960',
'a961',
'a962',
'a963',
'a964',
'a965',
'a966',
'a967',
'a968',
'a969',
'a970',
'a971',
'a972',
'a973',
'a974',
'a975',
'a976',
'a977',
'a978',
'a979',
'a980',
'a981',
'a982',
'a983',
'a984',
'a985',
'a986',
'a987',
'a988',
'a989',
'a990',
'a991',
'a992',
'a993',
'a994',
'a995',
'a996',
'a997',
'a998',
'a999',
...],
'target_names': ['class'],
'DESCRIPTION': '**Author**: Alex Krizhevsky, Vinod Nair, and Geoffrey Hinton \n**S
```

ource**: [University of Toronto](<https://www.cs.toronto.edu/~kriz/cifar.html>) - 2009
 Please cite: Alex Krizhevsky (2009) Learning Multiple Layers of Features from Tiny Images, Tech Report.
 n**CIFAR-10 small** nThis is a 20,000 instance sample of the original CIFAR-10 dataset. Sampled randomly and stratified, with 2000 examples per class. Training and test set are merged. Find the corresponding task for the original train-test splits.nnCIFAR-10 is a labeled subset of the [80 million tiny images dataset](<http://groups.csail.mit.edu/vision/TinyImages/>). It (originally) consists 32x32 color images representing 10 classes of objects:
 n0. airplane n1. automobile n2. bird n3. cat
 n4. deer n5. dog n6. frog n7. horse n8. ship n9. truck
 nThe classes are completely mutually exclusive. There is no overlap between automobiles and trucks. "Automobile" includes sedans, SUVs, things of that sort. "Truck" includes only big trucks. Neither includes pickup trucks.nnThe original CIFAR-10 dataset contains 6000 images per class. The original train-test split randomly divided these into 5000 train and 1000 test images per class.nn### Attribute description nnEach instance represents a 32x32 colour image as a 3072-value array. The first 1024 entries contain the red channel values, the next 1024 the green, and the final 1024 the blue. The image is stored in row-major order, so that the first 32 entries of the array are the red channel values of the first row of the image.nnThe labels are encoded as integers in the range 0-9, corresponding to the numbered classes listed above.nDownloaded from openml.org.'

```
'details': {'id': '40926',
  'name': 'CIFAR_10_small',
  'version': '1',
  'format': 'ARFF',
  'upload_date': '2017-09-26T23:24:38',
  'licence': 'Public',
  'url': 'https://www.openml.org/data/v1/download/16797612/CIFAR_10_small.arff',
  'file_id': '16797612',
  'default_target_attribute': 'class',
  'tag': 'derived',
  'visibility': 'public',
  'status': 'active',
  'processing_date': '2018-10-04 07:18:53',
  'md5_checksum': '060250588efa7a126a72ab523c8f824c'},
  'url': 'https://www.openml.org/d/40926'}
```

In [7]:

```
df = pd.DataFrame(data=np.c_[cifar['data'], cifar['target']], columns=cifar['fea
```

In [8]:

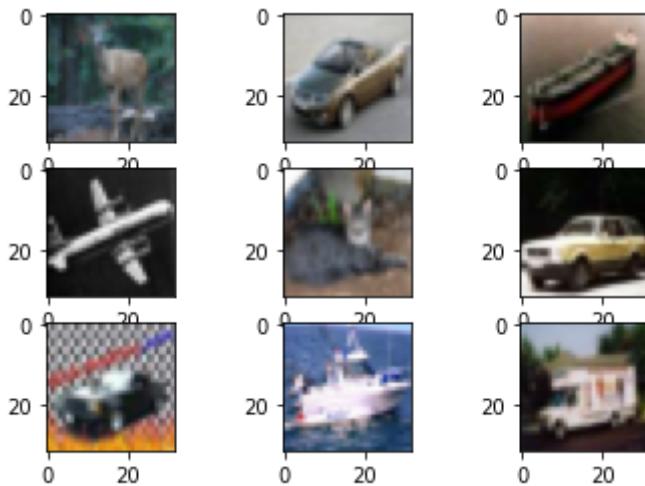
```
# Figure out how to display some of the images in this data set, and display a c
# While not high resolution, these should be recognizable if you are doing it co
```

```
# Generate 3d img array from dataset
def create_img_array(df):
    img_array = np.zeros((32,32,3))
    for i in range(32):
        for k in range(32):
            img_array[i][k][0] = int(img[i*32 + k])
            img_array[i][k][1] = int(img[i*32 + k + 1024])
            img_array[i][k][2] = int(img[i*32 + k + 2048])
    return img_array

# Plot 9 random images
fig, ax = plt.subplots(nrows=3, ncols=3)

for row in ax:
    for col in row:
        index = np.random.randint(2000, size=1)
        img = df.loc[index[0]][:-1]
```

```
col.imshow(create_img_array(img).astype(np.uint8))
```



In [147...]

```
X_train, X_test, y_train, y_test = train_test_split(cifar.data, cifar.target, test_size=0.3)
model = LogisticRegression(multi_class='multinomial', solver='saga')
clf = model.fit(X_train, y_train)
```

```
/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
```

In [166...]

```
y_pred = clf.predict(X_test)

score = accuracy_score(y_test, y_pred)
# print('Test Accuracy Score', score)

score = cross_val_score(clf, X_test, y_test, cv=5)
print('CV Score', score)
```

```
/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
```

```
/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
```

```
/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
```

```
/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
```

```
CV Score [0.346 0.348 0.363 0.345 0.339]
```

```
/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
```

In [168...]

```
print("%0.2f accuracy with a standard deviation of %0.2f" % (score.mean(), score.std()))
```

```
0.35 accuracy with a standard deviation of 0.01
```

In [170...]

```
# cross validate to find as good regularization coefficients as you can,
```

```
# for l1 and l2 regularization (called penalties), which are naturally supported
# in sklearn.linear_model.LogisticRegression. I recommend you use the solver saga

from sklearn.linear_model import LogisticRegressionCV

clf_l1 = LogisticRegressionCV(penalty='l1', tol=0.1, solver='saga')
clf_l1.fit(X_train, y_train)
```

Out[170]: LogisticRegressionCV(penalty='l1', solver='saga', tol=0.1)

In [171]:

```
clf_l2 = LogisticRegressionCV(penalty='l2', tol=0.1, solver='saga')
clf_l2.fit(X_train, y_train)
```

Out[171]: LogisticRegressionCV(solver='saga', tol=0.1)

In [179]:

```
coef_l1 = clf_l1.coef_.ravel()
coef_l2 = clf_l2.coef_.ravel()

print("Score with L1 penalty:", clf_l1.score(X_test, y_test))
print("Score with L2 penalty:", clf_l2.score(X_test, y_test))
```

Score with L1 penalty: 0.3738

Score with L2 penalty: 0.3842

In [14]:

```
# How sparse can you make your solutions without deteriorating your testing error?
# Here, I am asking you to try to obtain a sparse solution that has test accuracy
# close to the best solution you found.
```

```
for C in (1, 0.1, 0.01):
    print("When C = ", C)

    clf_l1 = LogisticRegression(C=C, penalty='l1', tol=0.1, solver='saga')
    clf_l2 = LogisticRegression(C=C, penalty='l2', tol=0.1, solver='saga')

    clf_l1.fit(X_train, y_train)
    clf_l2.fit(X_train, y_train)

    print("Score with L1 penalty:", clf_l1.score(X_test, y_test))
    print("Score with L2 penalty:", clf_l2.score(X_test, y_test))
    print()
```

When C = 1

Score with L1 penalty: 0.3938

Score with L2 penalty: 0.3932

When C = 0.1

Score with L1 penalty: 0.3916

Score with L2 penalty: 0.3922

When C = 0.01

Score with L1 penalty: 0.3916

Score with L2 penalty: 0.387

In []:

```
In [128]: import matplotlib.pyplot as plt
import numpy as np
import scipy as sci
import pandas as pd
import seaborn as sns
import matplotlib
import sklearn.datasets as data
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
```

```
In [129]: mnist = data.fetch_openml('mnist_784')
```

```
In [130]: X = mnist['data']
y = mnist['target']
columns = mnist['feature_names']
```

```
In [131]: df = pd.DataFrame(X,y, columns=columns)
```

```
In [132]: mnist_np = df.to_numpy()
```

```
In [133]: Xtrain, Xtest, Ytrain, Ytest = train_test_split(mnist_np, df.index, test_size = .1)
```

```
In [146]: lr = LogisticRegression('none',solver ='saga', multi_class='multinomial',max_iter= 100, random_state=0).fit(Xtrain, Ytrain)
l1 = LogisticRegression('l1',solver ='saga', multi_class='multinomial', max_iter = 100, random_state=0).fit(Xtrain, Ytrain)
l2 = LogisticRegression('l2',solver ='saga', multi_class='multinomial', max_iter=100, random_state=0).fit(Xtrain, Ytrain)
```

F:\Anaconda\lib\site-packages\sklearn\linear_model\sag.py:329: ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
 warnings.warn("The max_iter was reached which means "
 F:\Anaconda\lib\site-packages\sklearn\linear_model\sag.py:329: ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
 warnings.warn("The max_iter was reached which means "
 F:\Anaconda\lib\site-packages\sklearn\linear_model\sag.py:329: ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
 warnings.warn("The max_iter was reached which means "

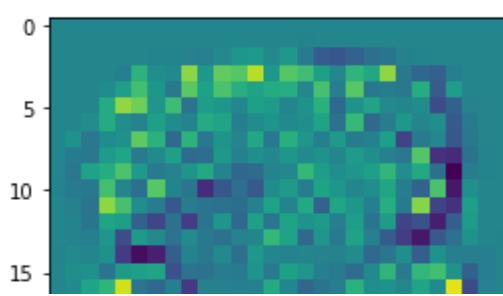
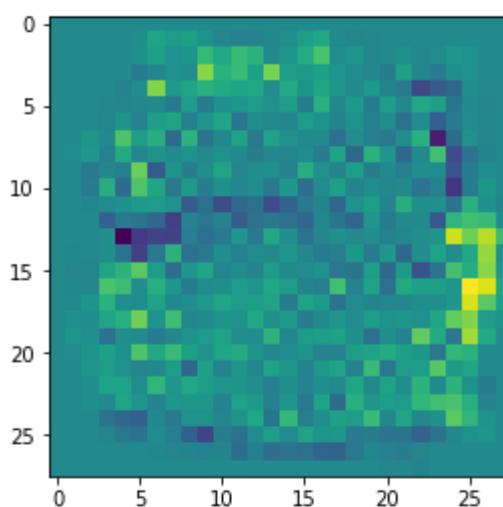
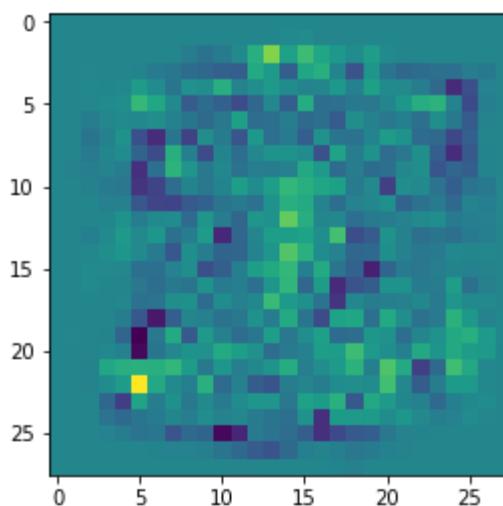
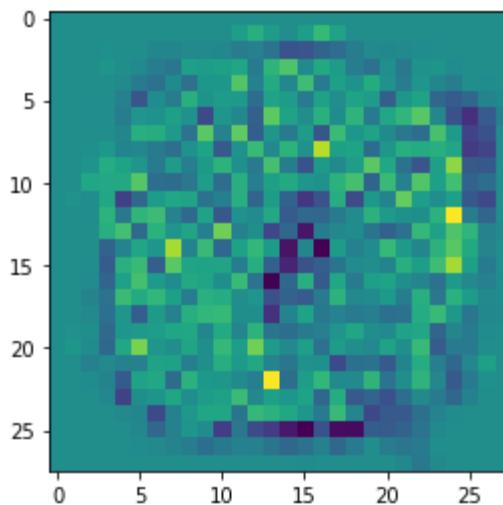
```
In [147]: score_lr_test = lr.score(Xtest, Ytest)
score_l1_test = l1.score(Xtest, Ytest)
score_l2_test = l2.score(Xtest, Ytest)
```

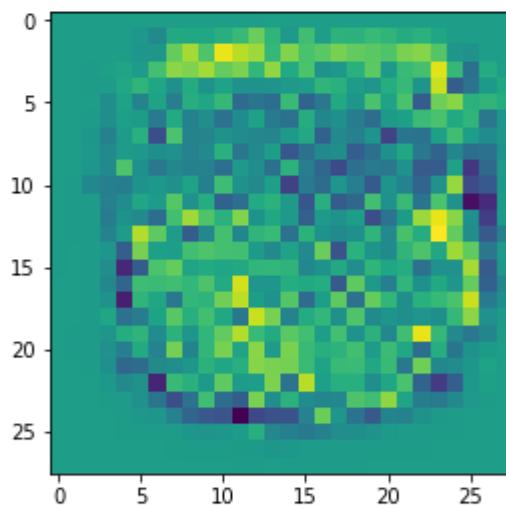
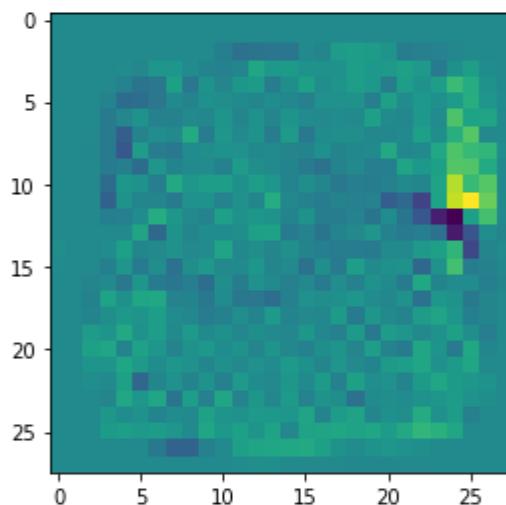
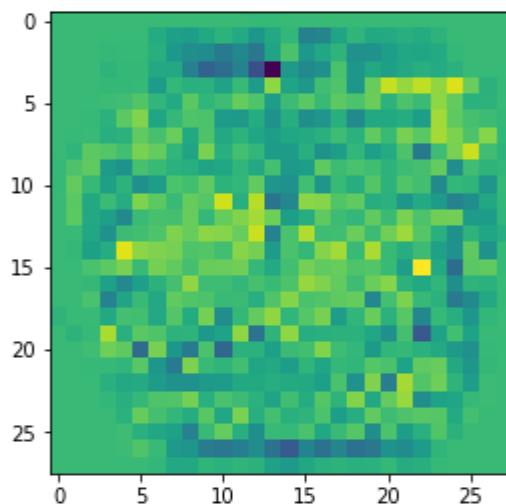
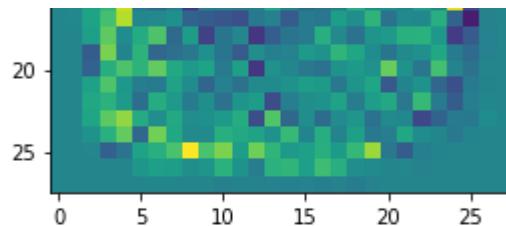
```
In [148]: score_lr_train = lr.score(Xtrain, Ytrain)
score_l1_train = l1.score(Xtrain, Ytrain)
score_l2_train = l2.score(Xtrain, Ytrain)
```

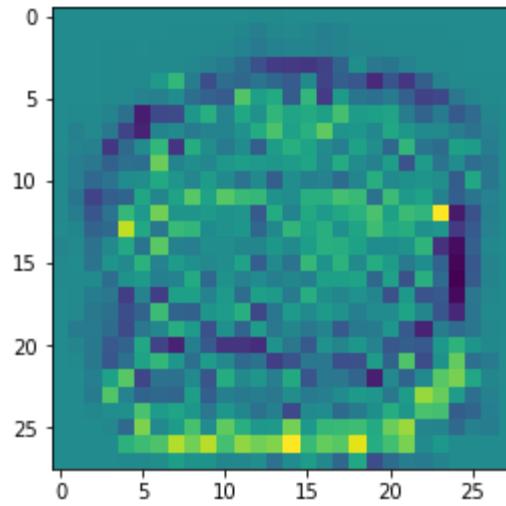
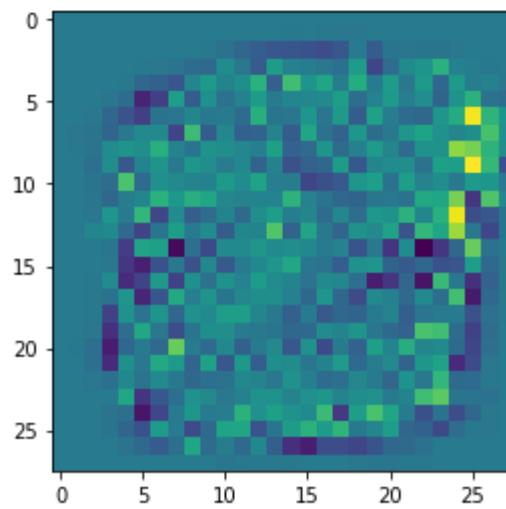
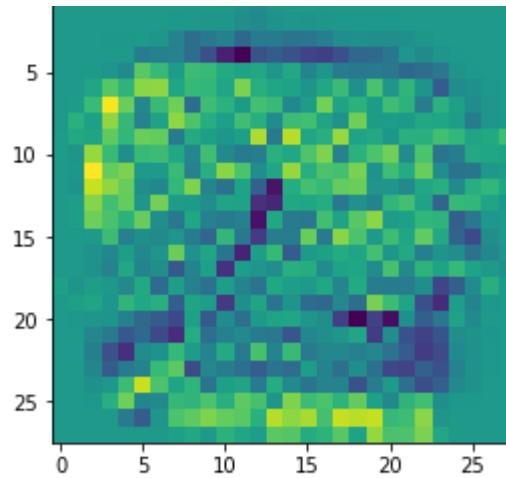
```
In [149]: img = lr.coef_
```

```
In [150]: fig = plt.figure(figsize=(50, 50))

for i in range(10):
    sub = fig.add_subplot(10, 1, i + 1)
    sub.imshow(img[i,:].reshape(28,28), interpolation='nearest')
```



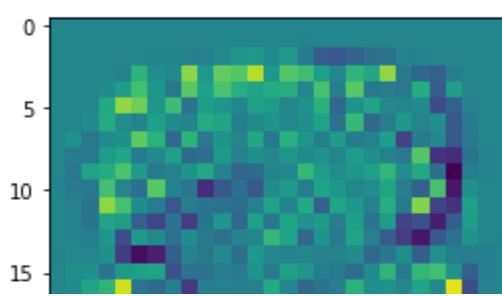
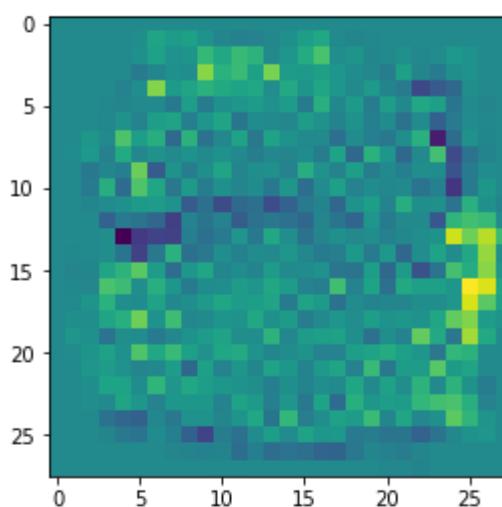
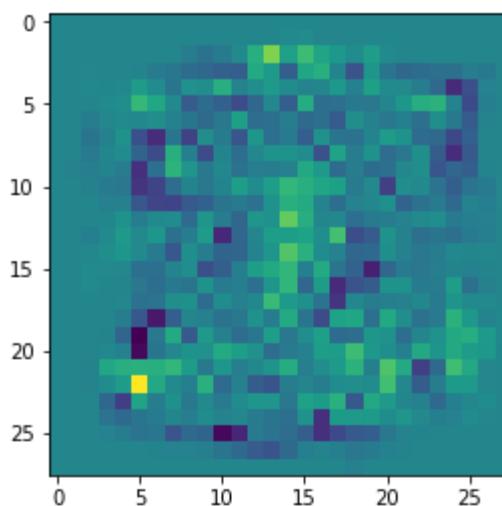
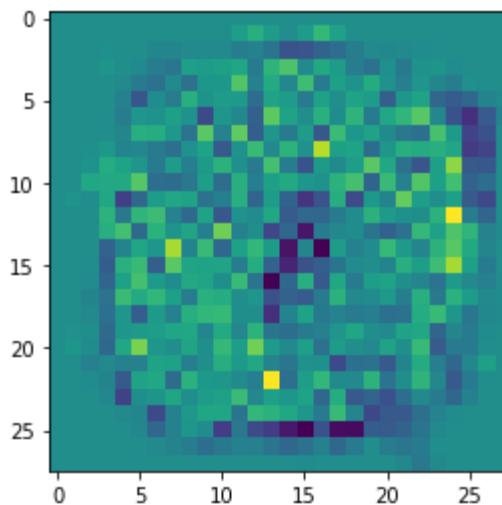


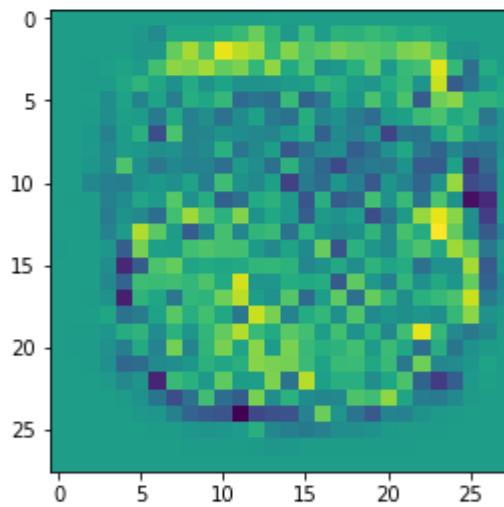
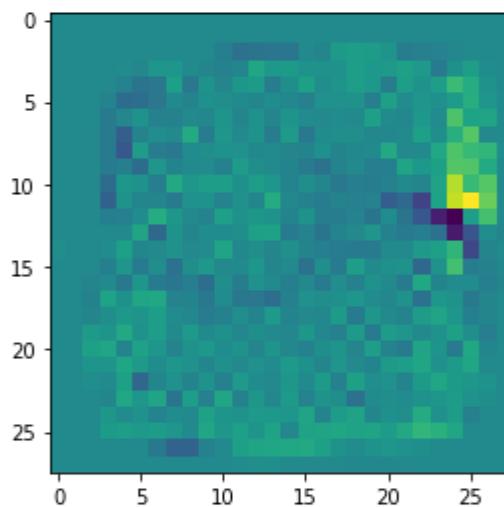
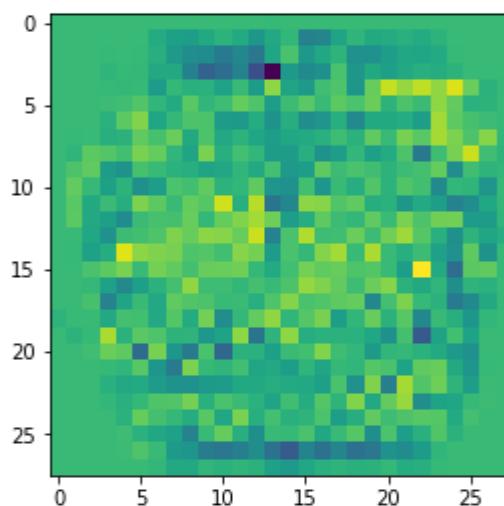
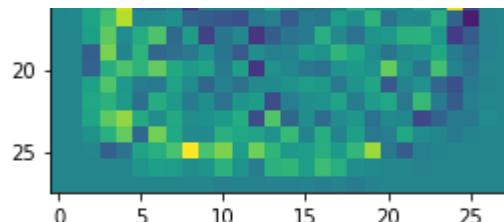


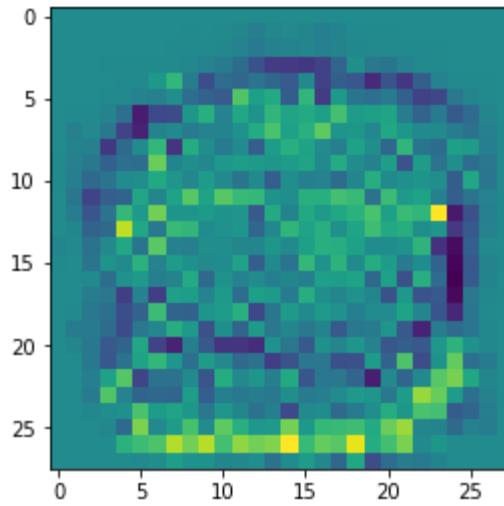
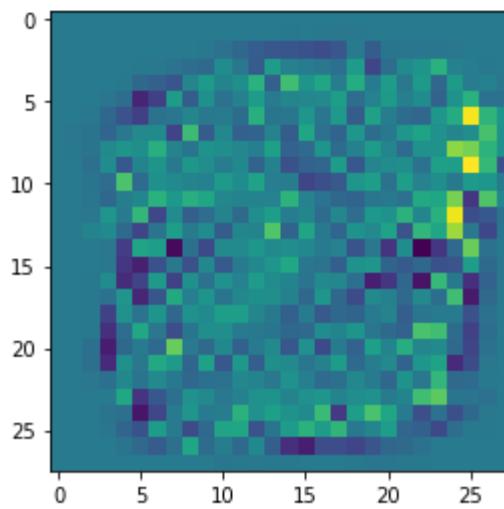
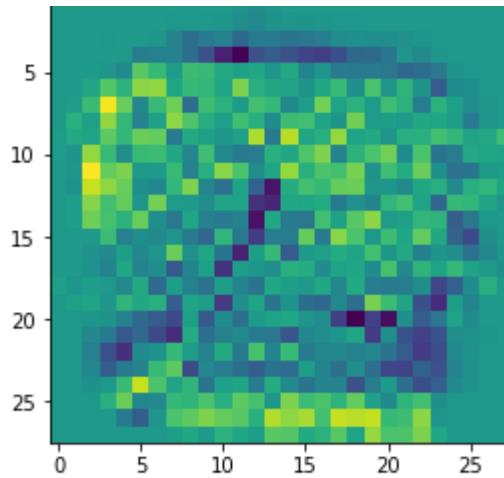
```
In [151]: imgl1 = l1.coef_
```

```
In [152]: fig = plt.figure(figsize=(50, 50))

for i in range(10):
    sub = fig.add_subplot(10, 1, i + 1)
    sub.imshow(imgl1[i,:].reshape(28,28), interpolation='nearest')
```



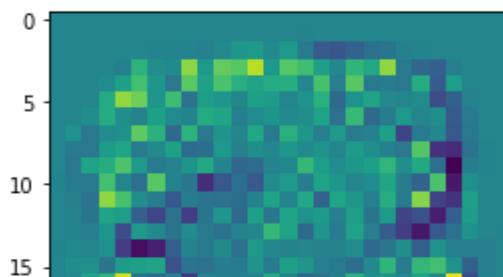
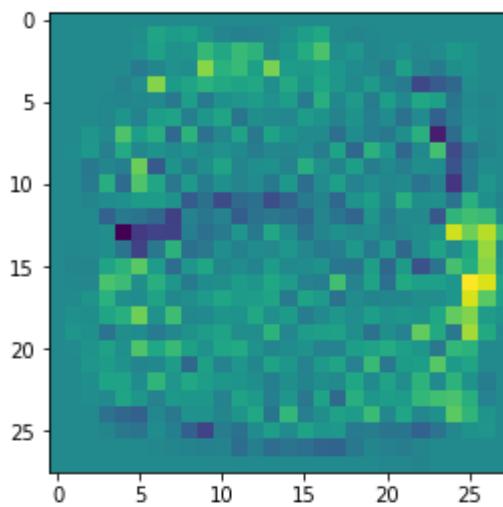
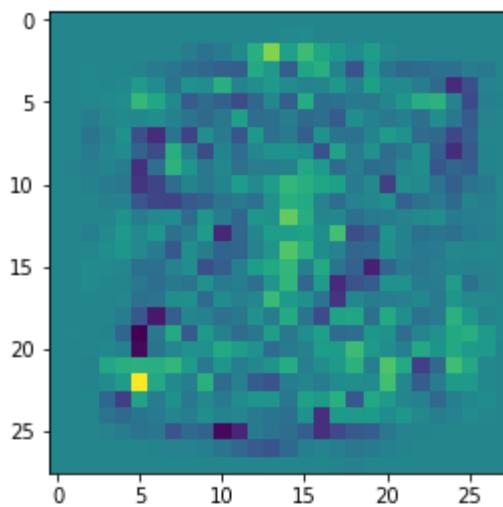
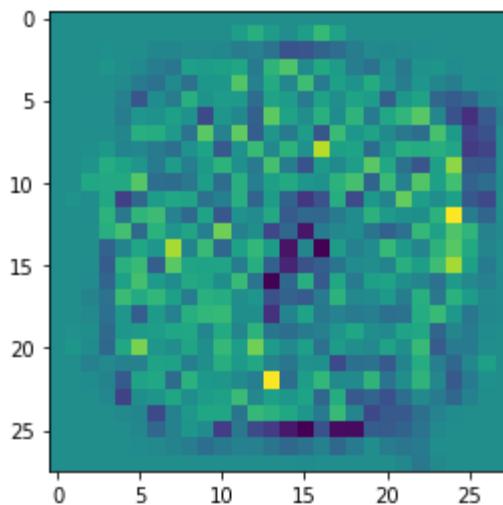


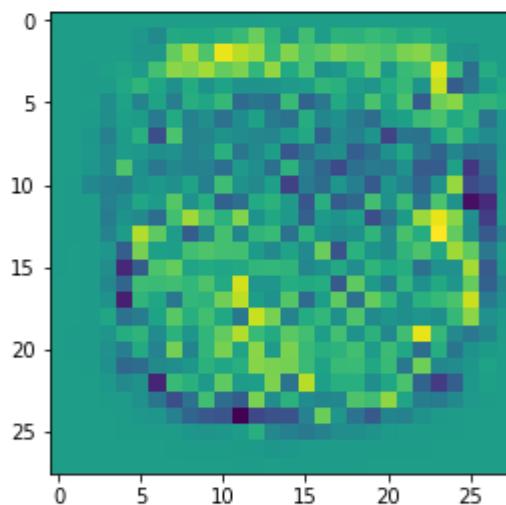
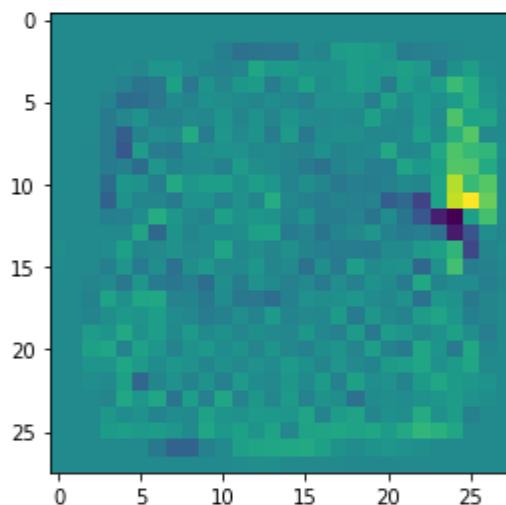
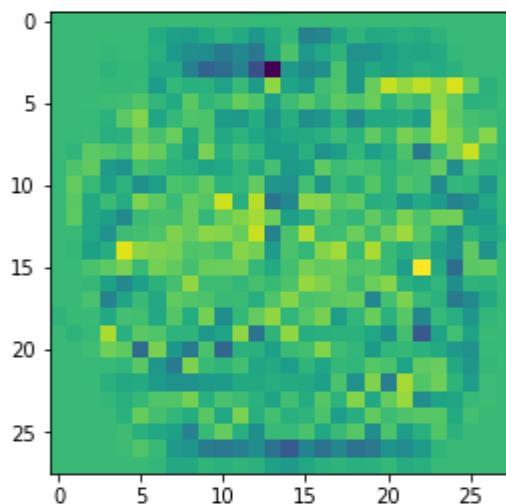
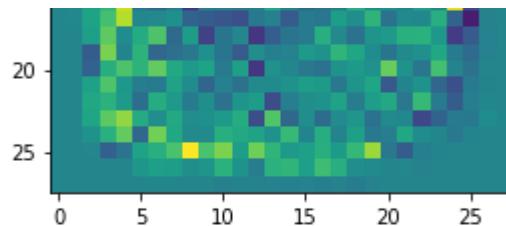


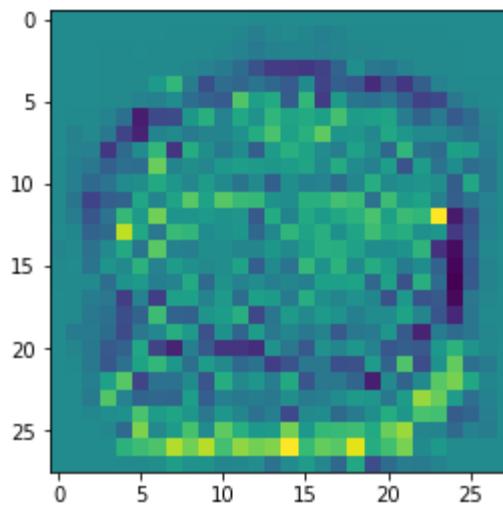
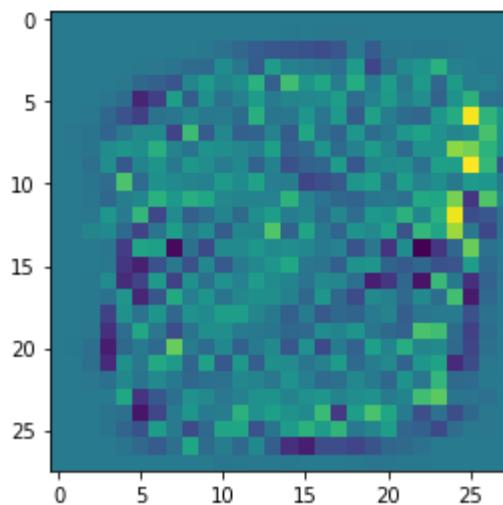
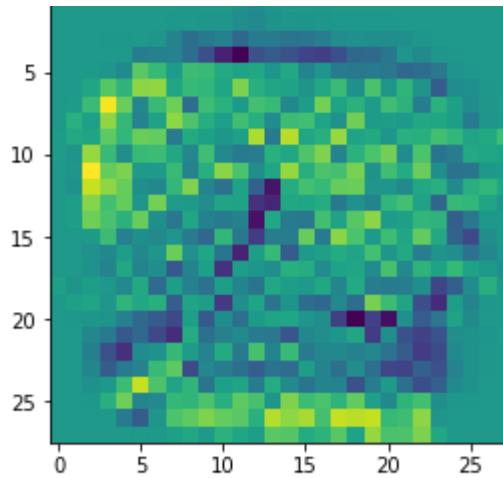
```
In [153]: img12 = 12.coef_
```

```
In [154]: fig = plt.figure(figsize=(50, 50))

for i in range(10):
    sub = fig.add_subplot(10, 1, i + 1)
    sub.imshow(img12[i,:].reshape(28,28), interpolation='nearest')
```







```
In [155]: print(score_lr_train, score_lr_test)
```

```
0.9387936507936508 0.92
```

```
In [156]: print(score_l1_train, score_l1_test)
```

```
0.9387460317460318 0.92
```

```
In [157]: print(score_l2_train, score_l2_test)
```

```
0.9387936507936508 0.92
```

```
In [ ]:
```