

Document Collection

Visual Question Answering

ICDAR LAUSANNE 2021

Rubèn Tito, Dimosthenis Karatzas, Ernest Valveny

Computer Vision Center, UAB, Spain

PUBLIC DISCLOSURE COMMISSION 711 CAPITOL WAY RM 206 PO BOX 49908 OLYMPIA WA 98504-0908 (360) 753-1111	Candidate Registration	C1	DATE FILED PDC	
Toll Free 1-877-601-2828			JUN 19 2008	
lidate's Name, (Give candidate's full name.) LESHE KAE HAMAD	<i>a</i>		(253)6313895	
date's Committee Name (Do not abbreviate.) CUMMUMCATING - CUNN'Y	Sering - CHANGE VOTE	LESLIE	Fax Number (253)631-1929	
28026 189711 Aver	lue SE	:	Candidate's E-Mail Address LOSTIE, MAHANA OYAhu	: cum
KLANT	County King 9	8042-5450	Campaign E-Mail Address	HIY, RA
What office are you running for? Howasi = REDKISIA PTVE	Legislative District, County or City 47 KING	Position No.	Do you now hold this office? Yes No	7.
Political party (if partisan office)		3. Date of general or speci	al election	
fow much do you plan to spend during your e	ntire election campaion, including the primary a	nd general elections? Ba	ased on that estimate, choose one of	
How much do you plan to spend during your et how much do you plan to spend during your et he reporting options below. If no box is checked and changing reporting options. Option I MINI REPORTING: In addition to a local voters pamphlets. I will not accept more Option I EILL REPORTING: Using the	ntire election campaign, including the primary a ed you are obligated to use Option II, Full Reporting. my filing fee of \$ 500 ⁴² . I will raise and spend no than \$500 in the aggregate from any contributor except Full Reporting system. Livil file the frequent, detailed c	Ind general elections? B: See instruction manuals for more than \$5,000, including t myself.	ased on that estimate, choose one of or information about reports required any charges for inclusion in state and law	
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Committee Officers and other persons who author SIEN HAMMON, CA	ntire election campaign, including the primary a d you are obligated to use Option II, Full Reporting. my filing fee of $$ 500^{42}$ will raise and spend no than \$500 in the aggregate from any contributor except Full Reporting system. I will file the frequent, detailed cr errorm only ministerial functions? Yes N_0 See d sheet. EXECT, WA 98012 your behalf and on behalf of other candidates or political arm phick make decisions on your behalf. List P_{M} by $M P N SGL$	In general elections? Bi See instruction manuals for imore than \$5,000, including t myself. ampaign reports required by VMAC 390-05-243 and next Continued on attached sheet. al committees. List name, titl t name, title and address. Se	ased on that estimate, choose one of or information about reports required any charges for inclusion in state and aw. Daytime Telephone Number (253) 631-3895 e and address of these persons. See WAC Continued on attached sheet.	
Def Inition Classifier How much do you plan to spend during your et How much do you plan to spend during your et In reporting options below. If no box is checked and changing reporting options. Initian control option is milling reporting options. Initian control option is reported and Address. Does treasurer page for details. List deputy treasurers on attacher Clew HAMMOR 28026 18974 Persons who perform only ministerial functions on 390-05-243 and next page for details. Committee Officers and other persons who authorn of Clew HAMMOR, cr 28026 18974 28026 18974 28026 18974 AUGAR, WA 98042 Committee Officers and other persons who authorn of the page for details.	ntire election campaign, including the primary a Ind you are obligated to use Option II, Full Reporting. my filing fee of $$500^{\circ\circ}$ I will raise and spend no than \$500 in the aggregate from any contributor except Full Reporting system. I will file the frequent, detailed co erform only ministerial functions? Yes N_0 See d sheet. $E \ Kech, WA \ 98042$ your behalf and on behalf of other candidates or political $P \ Phi \in M \ M \ Fhi \in G$	In general elections? Bi See instruction manuals for imore than \$5,000, including t myself. ampaign reports required by WAC 390-05-243 and next Continued on attached sheet. al committees. List name, titl t name, title and address. Se	ased on that estimate, choose one of or information about reports required any charges for inclusion in state and aw. Daytime Telephone Number (253) £31-3895 e and address of these persons. See WAC Continued on attached sheet.	

<u>45</u>

A CONTRACTOR	711 CAPITOL WAY RM 206 PO BOX 40908	Candidate		C1	100621693
	OLYMPIA WA 98504-0908 (360) 753-1111 Toll Free 1-877-601-2828	Registration		(1/2008)	01-08-2015
Candidate's Name (Give o	andidate's full name.)				Telephone Number
ANNA M DIVEDO					360-450-7994
Candidate's Committee Na	me (Do not abbreviate.)				Fax Number
FDIENDS OF ANN	DIVEDO				
Mailing Address	KI VERS				Candidate's E-Mail Address
PO BOX 957					ANNETVERS180COMCAST N
City		County		Zip + 4	Campaign E-Mail Address
LA CENTER	CLA	BK	9863	29	lizbryden@yahoo.com
1. What office are you	running for?	Legislative District, Cou	nty or City	Position No.	Do you now hold this office?
STATE SENATOR		LEG DISTRICT 17 -	- SENATE	N/A	Yes X No
2. Political party (if part	isan office)		3	. Date of general or spec	ial election
REPUBLICAN			1	1-08-2016	
and local voters Option II FULL 5. Treasurer's Name ar next page for details. FRED RIVERS PO BOX 957, L7 6. Persons who perform WAC 390-05-243 an LIZ COLEMAN, M	pamphlets. I will not accept mo REPORTING: I will use the Fund Address. Does treasurer peri- List deputy treasurers on attact A CENTER WA 98629 In only ministerial functions on your d next page for details. MINISTERIAL EMPLO	ver than \$500 in the aggregate from a ill Reporting system. I will file the fre form <u>only</u> ministerial functions? Yes thed sheet. our behalf <u>and</u> on behalf of other can YEE, 887 CALVARY CO	ny contributor exc quent, detailed car No X. See V didates or political URT SE, TU	ept myself. mpaign reports required to NAC 390-05-243 and Continued on attached sheet committees. List name, UMWATER WA 98	py law. Daytime Telephone Number 360-931-3403 title and address of these persons. See Continued on attached sheet. 501
 Committee Officers : ANN RIVERS, C2 	and other persons who authorize	expenditures or make decisions on 957, LA CENTER WA 9	your behalf. List r 8629	name, title and address.	See next page for definition of "officer."
8. Campaign Bank or D	Depository	Branch			City
FIBRE FEDERAL	CREDIT UNION	WOODLA	ND		WOODLAND
9. Related or Affiliated	Political Committees. List name	e, address and relationship.			Continued on attached sheet.

a books must be open to the public by appointment between 8 a.m. and 8 p.m. during the eight days before the election, except Saturdays, Sundays, and legal
In the space below, provide contact information for scheduling an appointment and the address where the inspection will take place. It is not acceptable to provide
ice box or an out-of-area address

Candic Conditional And Also Also Conversa Also Conse Conversa Conversa Conversa Conse Conversa Con	late ration	C1	DATE FILED PDO JUL 95 2008
Candidate's Name (Give candidate s full name) Lucius Dyge Candidate's Committee Name (Do not abbreviate)			Telephone Number (360) 459-4986 Fax Number
Committee to Elect Lucius I Mailing Address 1401 MARVIN Rd NF Suite 307 #	183		Candidate's E-Mail Address
City County County	J - 98516	6	Campaign E-Mail Address
1. What office are you running for? Thurston Co. Commission Diff. 2. Political party (if partisan office)	Struct 2 3. Date of or	Position No.	Yes No
2. Pointeal party (in particular onice)		1 ~~	8 No. mo
and changing reporting options. Select. In the dot is checked you are obligated to be and changing reporting options. Doption I MINI REPORTING: In addition to my filing fee of \$ <u>978.7</u> local voters pamphlets. I will not accept more than \$500 in the aggregate Doption II FULL REPORTING: I will use the Full Reporting system. I will Through the magnetized difference on additions. Does to accurate address and for the set of th	A will raise and spend no more than \$5. Form any contributor except myself. If the frequent, detailed campaign report Incore 2 Yes. See MAC 200 05.	000, including	any charges for inclusion in state a law.
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 Treasurer's Name and Address. Does treasurer perform only ministerial functions on your behalf and on behalf of the aggregation of the ag	Be Option II, Full Reporting, See instruction See Option II, Full Reporting, See instruction from any contributor except myself. If file the frequent, detailed campaign report tions? Yes No See WAC 390-05 Continued on at of other candidates or political committees. ecisions on your behalf. List name, little an Branch	di manuals i 000, including 1s required by 243 and next lached sheet. List name, titl d address. Se	er information about reports required in the second

ID: 8358			
PUBLIC DISCLOSURE COMMISSION 711 CAPITOL WAY RM 206 PO BOX 40968 01 VMPIA WA 88564-0908 (360) 753-111 Toll Free 1-877-601-2828	Candidate Registration	C1 (1/2008)	100862363 AMENDS 100832055 10-01-2018
Candidate's Name (Give candidate's full name.)			Telephone Number
CLIFFORD M GREENE			253-838-1838
Candidate's Committee Name (Do not abbreviate.)			Fax Number
MARK GREENE FOR REPRESENTATIV	E		
Mailing Address			Candidate's E-Mail Address
P.O. BOX 25781			MARK@PARTYOFCOMMONS.
City	County	Zip + 4	Campaign E-Mail Address
FEDERAL WAY K	ING	98093	mark@partyofcommons.
 What office are you running for? 	Legislative District, County or City	Position No.	Do you now hold this office?
STATE REPRESENTATIVE	LEG DISTRICT 30 - HOUSE	2	
2. Political party (il partisan office)		3. Date of general of speci	arelection
REPUBLICAN 4. How much do you plan to spend during your e the reporting options below. If no box is check and changing reporting options. Option I MINI REPORTING: In addition to and local voters pamphlets. I will not accept Option II FULL REPORTING: I will use the	entire election campaign, including the primary ed you are obligated to use Option II, Full Report my filing fee of \$477,76_, I will raise and spen more than \$500 in the aggregate from any contribu Full Reporting system. I will file the frequent, detail	and general elections? Ba and general elections? Ba ing. See instruction manuals d no more than \$5,000, includir or except myself. ed campaign reports required b	sed on that estimate, choose one o for information about reports require ing any charges for inclusion in state y law.
 Treasurer's Name and Address. Does treasurer j next page for details. List deputy treasurers on al CLIFFORD M GREENE P.O. BOX 25781, FEDERAL WAY V 	va 98093	Continued on attached sheet	253-838-1838
 Persons who perform only ministerial functions of WAC 390-05-243 and next page for details. 	n your benair <u>arts</u> on benair or other candidates or p	Jilicai committees. List name,	Continued on attached sheet
7. Committee Officers and other persons who autho KENNETH PEARSON, CAMPAIGN MAI 98093	rize expenditures or make decisions on your behalf.	List name, title and address. 3	See next page for definition of "officer."

3.	Campaign Bank or Depository	Branch			City	
MP	QUA BANK	1900 :	5. 320т	H STREET	FEDERAL	WAY
9.	Related or Affiliated Political Committees. List name, address and relationsh	nip.			□ c	Continued on attached sheet.

ID: 10901

	URE COMMISSION 711 CAPITOL WAY RM 206 PO BOX 40908 OLYMPIA WA 98504-0908 (360) 753-1111	Candidate Registratio	n	C1	100752373
	Toll Free 1-877-601-2828			(03-11-2017
Candidate's Name (Give o	candidate's full name.)				Telephone Number
NNA M RIVERS					360-931-3403
Candidate's Committee Na	ame (Do not abbreviate.)				Fax Number
RIENDS OF ANN	RIVERS				
lailing Address					Candidate's E-Mail Address
O BOX 957					ANNRIVERS18@COMCAST.
ity		County	Zip 4	4	Campaign E-Mail Address
A CENTER	CLA	ARK	98629		ANNRIVERS18@COMCAST.
What office are you	running for?	Legislative District, Co	ounty or City	Position No.	Do you now hold this office?
TATE SENATOR		LEG DISTRICT 18	- SENATE	NA	Yes 🗶 No 🗋
Political party (if part	tisan office)		3. Dat	e of general or spec	ial election
EPUBLICAN			11/	03/2020	
How much do you pl the reporting options and changing reportir	lan to spend during your enti below. If no box is checked ng options.	re election campaign, including you are obligated to use Option	the primary and gene I, Full Reporting. See ir	ral elections? Ba struction manuals	sed on that estimate, choose one o for information about reports require
Option I MINI and local voters	REPORTING: In addition to my pamphlets. I will not accept mo L REPORTING: I will use the Fu	r filing fee of \$, I will n ore than \$500 in the aggregate from Il Reporting system. I will file the fi	aise and spend no more any contributor except r equent, detailed campai	than \$5,000, includir nyself. gn reports required b	ng any charges for inclusion in state by law.
Treasurer's Name a	nd Address Does treasurer per	form only ministerial functions? Ye	s X No See WAC	390-05-243 and	Davtime Telephone Number
next page for details	. List deputy treasurers on attac	hed sheet.	Conti	nued on attached sheet	
OM PERRY	0.0371 MA				253-988-2455
0 DON 1200, 1	Contributor with 50071				
Persons who perforn WAC 390-05-243 an	n only ministerial functions on yo id next page for details.	our behaif <u>and</u> on behaif of other ca	ndidates or political com	nittees. List name,	title and address of these persons. See
Committee Officers a	and other persons who authorize	e expenditures or make decisions o	n your behalf. List name	, title and address.	See next page for definition of "officer." Continued on attached sheet
. Campaign Bank or [Depository	Branch			City
IBRE FEDERAL	CREDIT UNION	WOODL	AND		WOODLAND
Related or Affiliated	Political Committees. List name	e, address and relationship.			Continued on attached sheet
 Campaign books mu holidays. In the spa- a post office box or ; 	ust be open to the public by appo ce below, provide contact inform an out-of-area address.	pintment between 8 a.m. and 8 p.m lation for scheduling an appointmer	during the eight days be at and the address where	fore the election, ex the inspection will t	cept Saturdays, Sundays, and legal ake place. It is not acceptable to provide

post onice box or an out-of-area address.			
Street Address, Room Number, City where campaign books will be available for 38026 18974 AVIS SE KELL, WA	inspection 8042		
In order to make an appointment, contact the campaign at (telephone, fax, e-mail): (23) 631-	38.25	
11. CERTIFICATION: I certify that this report is true, complete and correct to the best of my knowledge.			
Candidate's Signature		Date	1 01 -1
Listie Her Hamada			6-18-08
			SEE INSTRUCTIONS ON NEXT PAGE

33911 NE 24TH AVE, LA CENTER	
In order to make an appointment, contact the campaig	n at (telephone, fax, e-mail):360-450-7994 ANNRIVERS18@COMCAST.NET
 CERTIFICATION: I certify that this report is true, complete and correct to 	the best of my knowledge.
	-
Candidate's Signature	Date

	Street Address, Room Number, City where campaign books will be available for inspection \int	Acey Community	mi Laceysma
F	11. CERTIFICATION: I certify that this report is true, complete and correct to the best of my knowledge.		
	Candidate's Signature	Date 7/	105/08
L			SEE INSTRUCTIONS ON NEXT F

Question: In which years did Anna M. Rivers run for the State senator office? **Answer**: [2016, 2020] **Evidences**: [454, 10901]

Overview

- Motivation: Lack of high-level purpose of DAR and dataset collection tasks.
- Images are the US Candidate Registration form, sourced from the Open data portal of the Public Disclosure Commission.
- 20 Questions posed over 14,362 document images.
- Methods must provide the answer to the question but also the document IDs of the documents used to obtain the answer (positive evidence).
- New metric based on ANLS to assess methods answering performance on a set of answers regardless of their order.
- New baselines are proposed and evaluated to showcase the performance of different approaches on this task.

Metric: Average Normalized Levenshtein Similarity for Lists (ANLSL)

• Based on string edit distance.

• Smoothly penalizes OCR recognition errors while evaluating method's reasoning

Street Address, Room Number, City where campaign books will be available for inspection					
In order to make an appointment, contact the campaign at (telephone, fax, e-mail):253-838-18	38 MARK@PARTYOFCOMMONS.COM				
11. CERTIFICATION: 12 Certification					
Candidate's Signature CLIFFORD M GREENE	Date 10-01-2018				

	a post office box of all out of all datable.	
	Street Address, Room Number, City where campaign books will be available for inspection 33911 NE 24TH AVE, LA CENTER	
	In order to make an appointment, contact the campaign at (telephone, fax, e-mail):253-988-2455	DAWGPERRY@GMAIL.COM
1.	CERTIFICATION: I certify that this report is true, complete and correct to the best of my knowledge.	
	Candidate's Signature	Date
AN	INA M RIVERS 03	3-11-2017

Question: Have there been any representative of the Green Party in Seattle? Answer: Yes **Evidences**: [4000]

DocCVQA

Field	Туре	# Values	# Unique Values
Candidate name	Text	14362	9309
Party	Text	14161	10
Office	Text	14362	43
Candidate city	Text	14361	476
Candidate county	Text	14343	39
Election date	Date	14362	27
Reporting option	Checkbox	14357	2
Treasurer name	Text	14362	10197



• Hungarian Matching (Ψ) to find closest predictions-ground truth pairs (U).

capabilities on itemized answers.

$$\Psi(NLS(G,P))$$
 $ANLSL = \frac{1}{\max(M,N)} \sum_{z=1}^{K} NLS(u_z)$

Baselines

U =

Text Spotting + BERT



1. Rank documents according to edit distance from relevant question words to recognized words in documents.

2. Get the answer from the most relevant documents with BERT reading comprehension method.



Num Relev 10^{0} Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q2 Q3 Q4 Q5 Q6 Q0 Q1 Sample set Test set

Results

Retrieval method	Answering Method	ΜΑΡ	ANLSL
Text spotting	BERT	72.84	0.4513
Database	BERT	71.06	0.5411
Database	Database	71.06	0.7068
GT	BERT	100.00	0.5818
GT	Database	100.00	0.8473



[PRP] [DT] **[NN]** [VRB] **[NN] [NN]** [VRB] [PRP] [DT] **[NN]** [NN] [NN]

Rivers

run

for

М.

Anna

Database

which

years

did

In



the State senator office

1. Extract key-value relations on documents and dump it into

2. Manually parse the question into Structured Query Language to get both relevant documents and the answer.

Name	Office	City	County	 Phone Number
Anna M. Rivers	State Senator	La Center	Clark	 360-931-3403
Clifford M Greene	State Represent.	Federal Way	King	 253-838-1838
Lucius Dave	Thurston Comm.	Lacey	Thurston	 (360)459-4986
Anna M. Rivers	State Senator	La Center	Clark	 360-450-7994
Robert Reedy	County Charter	Mount Lake Terrace	Snohomish	 (425)6724042

