Bh 7 2s>pJs9) 3XNX9V (8e4|) ;qNA

—@bL@J8M}2r$K4p$E$/2hA|$+iN>pJsCj=P<jK!—

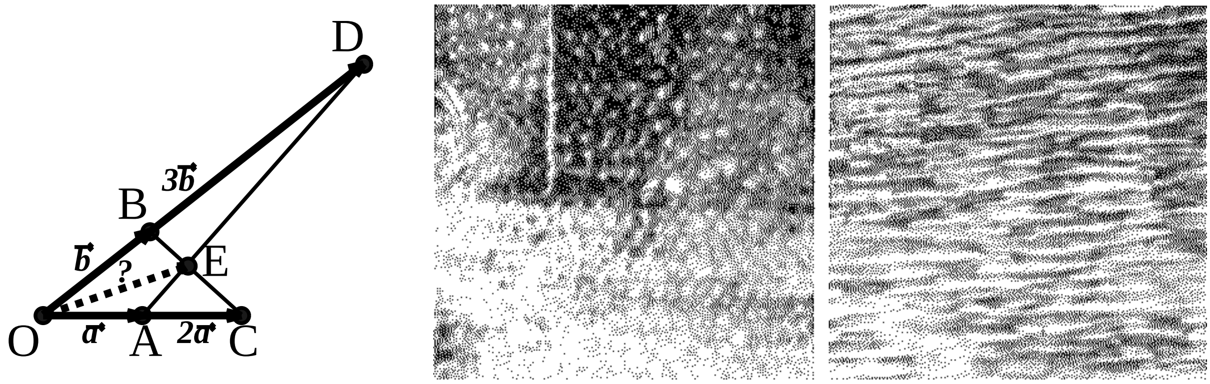
=$;N2]Dx 1 G/ 0f<j 0IO:*

J?@. 6 G/ 11 7n 28 F|

1 O8aK

<!Nh$&$JLdBjKD$$$F9M$($F$_$h$&!#

> !ZLd 1![
> F10lD>@~>eKJ$$ 3 E@ O, A, B $,$"$j!" $\overrightarrow{OA} = \vec{a}, \overrightarrow{OB} = \vec{b}$ H9$k!#
> E@ C, D r=l>$l $\overrightarrow{OC} = 2\vec{a}, \overrightarrow{OD} = 3\vec{b}$ r_$?$9E@H7!"@~J, AD $H@~J, BC $N8rE@$r
> E H9$k!# $\overrightarrow{OE}$ $r $\vec{a}, \vec{b}$ G"io$;!# ;29MJ88% [6] hj (ET9g>e!"0lIt2~JQ7?)



?^ 1: (:8)!ZLd 1![$NLdBj$N;k3P2=, (1&) ?^$@$1GO2?$@$+J,$+$i$J$$Nc

3Nh&$JLdBj$G$O!"$^$:?^ 1(:8) Nh$&$J35?^$r=q$$$F$+$i2r$/$N$,IaDL$@m&!#BjJ8$H?^ 1(:8) HG$O!"I=$9;v<BH7FN>pJsNLO[$\F1$8G"k,!";k3PE*$KI=7?$,?M4V$,9M;!$r7d$9$$$H$$$&E@$G>pJsNL$,B?$$!#

9M$($F$_$k$H!"8&5f$dF|>o@83hNCfG!"bN4H$rI=8=$7$?$j9M;!7?j9$k:]$K>Ohj$O?^$rMQ$$$k3H$,B?$$$3HK5IU/!#$^$?!"8EMh!VI4J9$O01[1]$H$$$&$+$:!Wh&$K!"3($r!V8+$?!WJ}$,D9Bg$J@bL@$r!VJ9$/!W(FI$`) $h$j$bB?$/$N>pJs$r4^$`3Hk3HO8E$/$+$iG'<1$5lF$$$kh&$@!#

*EDCf (1Q) 8&5f<<; ide@mtl.t.u-tokyo.ac.jp

[1] !VI4J9ITG!0l8+!"J<FqSHEY!"?C4jCZ;j6b>k!"T&>eJ}N,!W[4A=q ld=<T"P|]

7+$7!"H?BP$N>l9gb"$k!#?^ 1(1&) $r8+$F$b!"BgJ}$N?M$O2?$@$+J,$+iJ$$$@m& $N<L??$K$OK\Mh$O@bL@J8[2]$,IUB0$7$F$$$kNG!"$=$lrFIs$G=i$a$F2?$@$+J,$+kNG"$k

3Nh&$K!"2hA|$H<+A38@8l$O8_$$$KF1$8>pJs$rI=$9$3Hb$"$l$P!"C1FH$G$O@eB- $JItJ,$rJd$$9g$&$3Hb$"$k!#

Kb$+$+oi$:!">pJs=hM}$NJ,LnGO!"2hA|=hM}$H<+A38@8l=hM}$H$O=>MhFH<+$NJ, 7FH/E8$7$F$-$?!#7+$7!"6aG/$NN>J,Ln$N@.=O$KH<$$!"APJ}$K6u4V9=B$4X78$d;X<($ $?F1<!85$N>pJs$,4^$^lF$$$F!"AjJdE*JJ,LnG$"$k3H$,G'<1$5$l;O$aF-$?!#$3$ <+A38@8l>pJs$H2hA|>pJs$NE}9g$H$$$&=c3XLdE*$J4X?4$Kbhk,!"%^%k%A%a%G%#%";~ E~Mh$r95$(!"EE;R?^=q4[$dEE;RH~=Q4[$H$$$C$?%G!<%?%Y!<%9$r:n@.9kNK<+A38@8l A|$rE}9g$7$F=hM}$7J1lP<B8=$,Fq$7$$$3H,G'<1$5$l;Oa?3HKhkH3m$, $$$H;Wol$k!#

$=$3$G!"K\NX9V$G$O!"?7J95-;vCf$N<L??H=$N@bL@J8$+$iF@$ilk>pJs$rE}9g$7$F ??$K<LCF$$$k?MJ*$rFCDj$9$k%7%9%F%`[1] $r>R2p$7!"<+A38@8l$H2hA|$rE}9g7?=hM} CVIU1HM-8z@-$*$h$SLdBjE@$r@v$$=P$7!":G8e$K>-Mh$NE8K>$r=RYk!#

2 @bL@J8hj@8@.5l$k6u4V9=B$$rMQ$$$?<L??$NM}2r ([1] $h

2.1 35MW

K\O@J8GO!"<L??$KIU?o$9$k@bL@J8$K4p$E$$$F!"<L??$r!VM}2r!W$9$k7W;;%b%G%k$r 9k!#?MJ*$dJ*BN$rG'<1$9$k3H$r<L??$NM}2r$H9M$(k3H,G-$k!#<L??$H@bL@J8 2r$O!":G=*E*$K$OAPJ}$N>pJs8;$+$iF@il$?>pJs$NE}9grb$?$i$7!"CNE*$J>pJs8!:w $$$k3H$,$G$-$k!#

;vA0>pJsJ7$K0lHLE*$J2hA|M}2r$r9T$&3H$O:$FqJN$G!"4{B8$N2hA|=hM}%7%9%F% 2hA|$K4X$9$k0lHLE*$J>pJs$r;vA0$KM?$($k3HKh$jG'<1$r9TCF$$$k!#7+$7!"K\ $GDs0F$9$kJ}<0$O!"0lHLE*$J>pJs$N$_$Ji:!"8D!9$N<L??$N@bL@J8$bMxMQ$7$F$$$kN Nh$&$JJ}<0hj5iK0lJbF'$_9~$s$G$$$k$H8@$($k!#0J2<$G<BNcH7$F!"@bL@J8$r 7F<L??Cf$N?MJ*$rFCDj9k%7%9%F%` *PICTION* $r>R2p$9$k!#

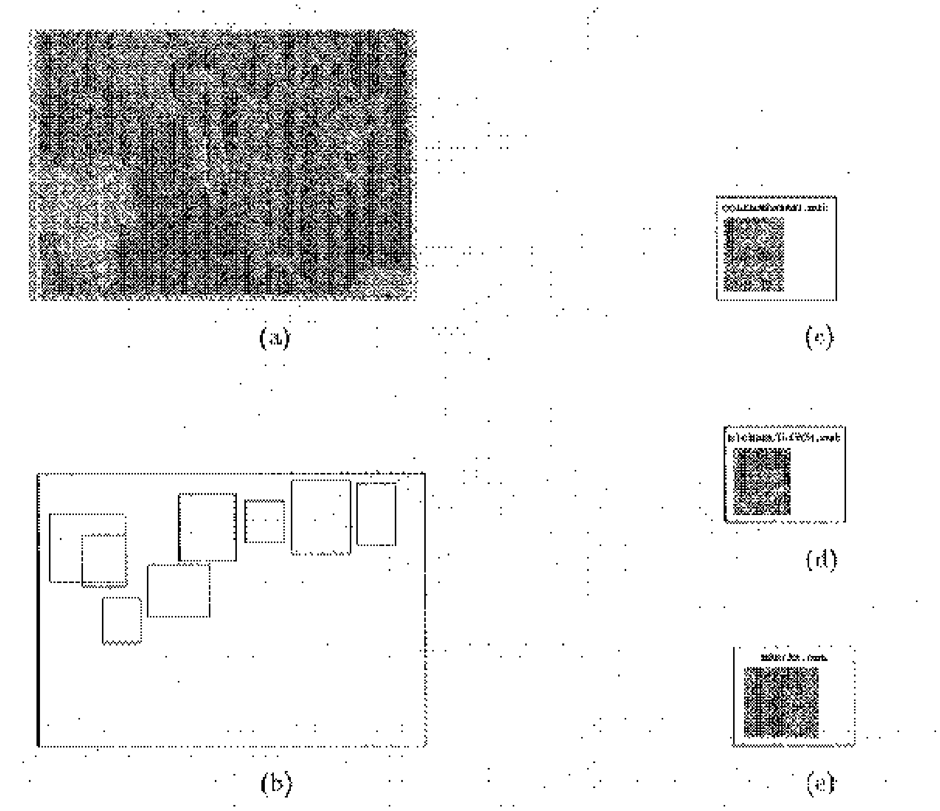
2.2 *PICTION* –@bL@J8$K4p$E$$$?4iG'<1%7%9%F%`– $N>R2p

<!@a$G>R2p$9$k7W;;%b%G%k$O!"<L??$K@bL@J8$,IU?o7F$$$lPINh$&$J>l9gKb G-$k!#<BNc$KB'7F@bL@7?$J}$,J,$+$jd9$$$N$G!"IU?o$9$k@bL@J8$K4p$E$$$F?7 ;v$N<L??$K<LCF$$$k?MJ*$NG'<1$r9T$& *PICTION* %7%9%F%`$r8+$J$,$i%b%G%k$N@bL@$r $&!#4JC1$K8@$&$H!"%G%#%8%?%k2=$5$l$?<L??$H$=$N@bL@J8$N%F%-%9%H!&%U%!%$%k$rM? $P!"%7%9%F%`$OJ*BN$N0LCV$rFCDj$7!"%i%Y%kIU$1$r9T$C$F7k2L$r=PNO9k!#

?7J9$N0lLL<L??$NB?$/$O;v<BKB'7$F$$$FIA<LE*G"$j!"K\%7%9%F%`$G<h$j07$&$&$K $J>pJs$rbC$F$$$k!# *PICTION* $O4{B8$N4i2hA|G'<1$N<jK!$HHf3S7F>/$J$$$7W;;NL$C

[2] 1U>=Kh$kK`;$$N%"%/%F%#%V@)8f!V1U>=$NGv$$Kl$KEE>l$r0u2C$9$k$H!"$=$NJ,;R$NG[Ns9=B$$,JQ2=$ $3$N8=>]$rMxMQ$7$?K`;$$N@)8f$N8&5f$r9TJC$F$$$k!#?^$OJP8w82Hy6@$G1U>=$NGvKl$r4Q;!7?Nc$G! $NEE>l$N$_$r0u2C7?GvKlK;sCGr2C$($k$H!"G[Ns9=B$$NJQ2=$,1&?^$Nh&$K8=$l$k!#W

$‘!#$H$$$&NO!"4{B8$N%7%9%F%‘$G$OG’<1$9k9YF$N?MJ*$N4i%b%G%kr"i+8a
7J$/$FOJiJ$$$,!"*PICTION* GOI,MW$J$$$+iG$"$k!#
?^ 2$KG’<1$NNcr"2k!#



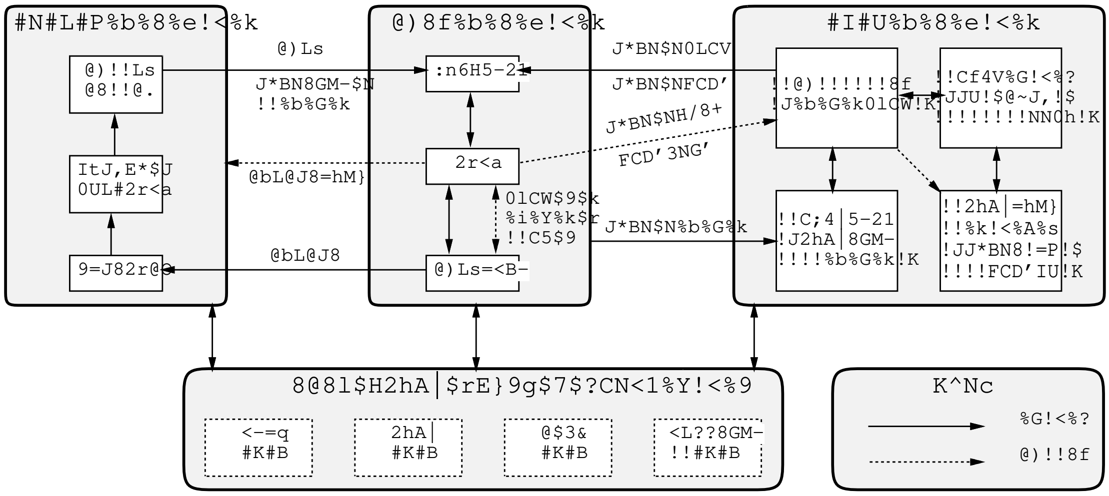
?^ 2: (a) %G%#%8%?%k2=5l$?<L?? (@bL@J8$O!V@h=5$N **N.A.A.C.P.** M<?)2q$G$N%3!<%k%^%s
%G%H%m%$%H;TD9 (1&)!#;TD9$O%G%H%m%$%H!&%l%C%I!&%&%#%s%0%9$N%*!<%J!<$N%^%$%1%k
%j%C%A$HF1IW?M%^%j%"%s$HF1@J7?!#W(%K%e!<%h!<%/!&%?%$%‘%9;f 1989 G/ 5 7n 1 F|)) (
4i2hA|$N8uJd!# 0lIt$O4iGO$J$$$H3m$r8mG’<1$7$F$$$k!# (c)!A(e) =PNO7k2L

2.3 @bL@J8$K4p$E$/2hA|M}2r$N7W;;%b%G%k

K\%b%G%k$O 4 DNItJ,$+$i9=@.5l$F$$$k!#

- 8@8l$H2hA|$rE}9g7?CN<1%Y!<%9
- @)8f%b%8%e!<%k
- <+A38@8l=hM} (NLP) %b%8%e!<%k
- 2hA|M}2r (IU) %b%8%e!<%k

0J2<!"3F!9KD$$$F4JC1$K@bL@$9$k!#



?^ 3: @bL@J8$K4p$E$/2hA|=hM}$N7W;;%b%G%k

2.3.1 8@8l$H2hA|$rE}9g7?CN<1%Y!<%9

J8>O$+$i2hA|>pJs$rCj=P$9$k:]$K!"8@8l$H2hA|$rE}9g7?CN<1%Y!<%9 (KB) $OIT2D7
$"$k!#K\%b%G%kGO 4 <oN`$N KB $rMQ0U$7$?!#

1. <-=q **KB**

   8l$NI=5-$H0UL#$*$h$S!"8l$NAj8_4X78$r5-=R

2. 2hA| **KB**

   BP>]J*%9%-!<%^ (J*BN$N7A>u$NI=8=) $*$h$S!"$=$N%*%s%H%m%8!<$r5-=R

3. @$3& **KB**

   ?M, >l=j, ;v>], 01HLE*$J@)Ls$K4X9k;v<B$r5-=R

4. <L??8GM- **KB**

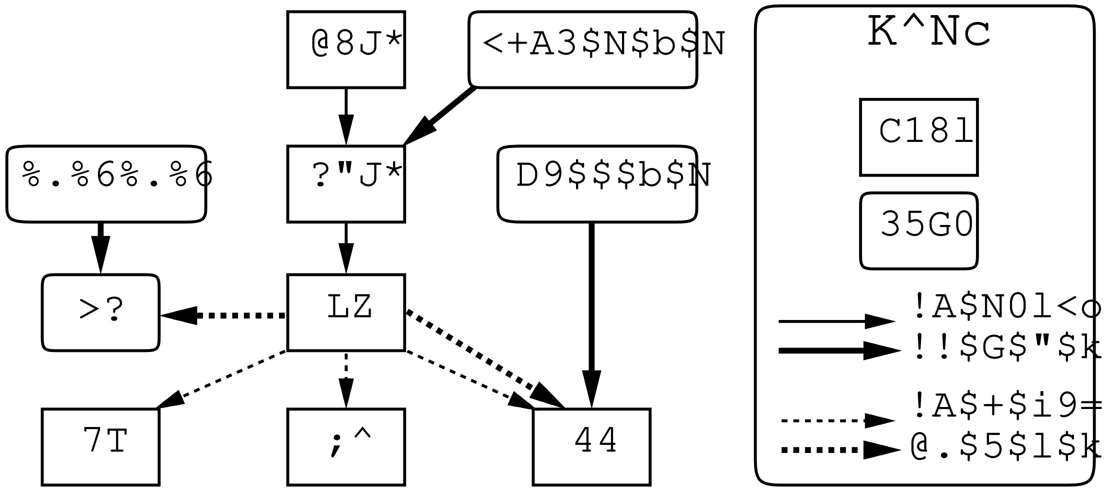
   9G$K=hM}$7$?<L??$d@bL@J8$K8GM-$N;v<B$r5-=R

<-=q KB $O!"0J2<$N>pJs8;$+$i@8@.7?!#

1. Longman's Dictionary of Contemporary English (LDOCE)
2. Oxford Advanced Learner's Dictionary (OALD)
3. WordNet
4. <jKh$kF~NO

3liN<-=q$NA4C18l$KBP7FCN<1$,IU2C$5$l!"CN<1%Y!<%9$,9=@.5l$F$$$k!#$3
<1%Y!<%9$r LOOM CN<1%Y!<%9$H8F$V!#$3$3$G8@$&CN<1$H$O!"?^ 4$K<(9h$&$K!"C18l$
8l$rJ,N`$7$?35G0$H$N4V$N4X78H7$F!V!A$N0l<oG"$k!W$d!V!A$+$i9=@.5l$k!W$H
$?>pJs$G$"$k!#

<L??$,<!!9$H=hM}5l$F$$$/KD$l!"@$3& KB KO?o;~?7$?$J;v<B$,IU$12CoC$F$$



?^ 4: CN<1%Y!<%9$N3,AX4X78$NNc

BP>]J*%9%-!<%^$O8GDjE*$GOJ$/!"@)Ls@8@.It$KhjF0E*$KFC<l2=$5$lF@$k!#3l
2hA|=hM}It0J30GOBP>]J*%9%-!<%^$,8GDjE*$J4{B8$N2hA|=hM}%7%9%F%`$H0[JkE@G
0lJ}!">lLL%9%-!<%^$O!">lLL$K4XO"9k%b%G%k$,$"i+8aDj5A5lF*i:!"@bL@
$iF@$ilk>pJs$K4p$E$$$FF0E*$K@8@.$5lk!#

2.3.2 <+A38@8l=hM} (NLP) %b%8%e!<%k

NLP %b%8%e!<%kXNF~NO$O<L??$N@bL@J8!"=PNO$O%7%9%F%`$,?MJ*$rG'<1$G$-$kh&$
$k<L??$KBP9k@)LsG"$k!#NLP %b%8%e!<%k$O<!$N 3 CJ3,$N=hM}$r7P$k!#

1. 9=J82r@O

   $^$:!"0LCV4X78JI$rI=$9!VV:GA0Ns$N!W$d!V!A$N:8$K!W$H$$$C$?8l$d!"8GM-L>;
   @Z$j=P$7!"$=$N8e$G0LCV4X78$rI=$98l$H8GM-L>;l$N4X78$r2r@O9k!#

2. ItJ,E*$J0UL#2r@O (2DG=$JHO0O$G9T$J$&)

3. @)Ls@8@.

   @)Ls@8@.It$O!"2hA|$N0UL#$r3d$jEvFk$?$a$K<-=q KB $r!"8GM-$N2hA|J*BN%b%G%
   @8@.9k$?$a$K2hA| KB $r!"$=7F4{CN$N?MJ*, >l=j, ;v>]$JIK4X9k>pJs$rF@
   $?$a$K@$3& KB $rMxMQ$7$F$$$k!#

   @8@.5l$k@)Ls$K$O!"<!$N 4 DLj,$"$k!#

   (a) 6u4VE*@)Ls

       J*BN$N6u4VE*$JAj8_4X78$N@)Ls

       (*ex.*) B<;3<sAj$O%/%j%s%H%sBgE}NN$N1&$K:B$C$F$$$k!#

   (b) 0LCV$N@)Ls

       FCDj$N4p=`$KBP9kJ*BN$N0LCV$N@)Ls

       (*ex.*) B<;3<sAj$OIt20$N6y$K:B$C$F$$$k!#

(c) @-<A$N@)Ls

J*BN$N@-<A$N@)Ls

(*ex.*) B<;3<sAjOCKG$"$k!#

(d) J8L.$N@)Ls

@bL@J8Cf$KM[$K5-=R5l$?J*BN$K4X9k@)Ls

(*ex.*) B<;3<sAj$H%/%j%s%H%sBgE}NN$,<LCF$$$k!#

2.3.3 @)8f%b%8%e!<%k

@)8f%b%8%e!<%kGO!":n6HMQ5-21$H@)Ls=<B-It$+iJ$k!#

:n6HMQ5-21KO8=:_07CF$$$k2hA|$H@bL@J8$N=hM}$K4X$9$k>pJs$r3JG<7F$$$k!#E*KO!"

1. <L??$K<L$C$F$$$k$HM=A[$5lkJ*BN/?MJ*$K8GM-$NBP>]J*%9%-!<%^
2. @)Ls@8@.It$G@8@.$5l?MM!9$J@)Ls

$+$iJj!"$3$3$G@bL@J8$+$iF@$ilk>pJs$H2hA|$+$iF@$ilk>pJsH,E}9g5lkN$G

1. **NLP** %b%8%e!<%kHNAj8_:nMQ

   @)8f%b%8%e!<%k$O@)Ls=<B-It$r!"@)Ls=<B-It$O NLP %b%8%e!<%k$N9=J82r@OIt$r8F$
   @)Ls$r@8@.$7$F:n6HMQ5-21$K>pJsrJV9!#NLP %b%8%e!<%kXN@)8f$O:G=i$N0lE
   $+9T$ol:!"8mC?2r@OJIKBP9$k%U%#!<%I%P%C%/$O9Tol$J$$!#

   NLP %b%8%e!<%kGO!"V!A$N6a$/$N!W$d!V!ANNYN!W$H$$$C$?Dj@-E*$JI=8=$r4^$
   IY$J6u4VE*%W%j%_%F%#%V$N=89g$rMxMQ$7$F$$$k!#@)8f%b%8%e!<%k$O!"J*BN$NNX3T
   8_4X78$H$$$&7A$G!"6u4VE*%W%j%_%F%#%V$KBP7FDjNLE*$J2r<a$r9TJ&!#$3$3$G
   <+A38@8lE*$J>p7JIA<L$r9TJ&$H$$$&hj$O!">p7J2r<a$K6u4VE*%W%j%_%F%#%V$rM
   7F$$$kNG!"6u4VE*%W%j%_%F%#%V$OB>$N%7%9%F%`$HHf3S$7$FLr3d$,7Z$$!#NX3T
   ?M4V$N4i$rI=9NKO==J,$JD9J}7A$NOH$rMQ$$$F$$$k$,!"4i0J30$NJ*BN$r07$(k
   K9k?aK$O!"$h$j=@Fp$J7A>uI=8=$,I,MW$KJk$@$m$&!#

2. **IU** %b%8%e!<%kHNAj8_:nMQ

   @)8f%b%8%e!<%k$O IU %b%8%e!<%k$KBP7FM?$($kL?Na$O 3 CJ3,$KJ,$+$l$k!#

   (a) 9b5iL?Na

   IU %b%8%e!<%k$r%V%i%C%/!&%\%C%/%9$H$_$J7F!"J*BN$r8!=P$7$F!"$=li$N
   D'$rCj=P$9$kL?Na!#

   (b) Cf5iL?Na

   J*BN8!=P$H@)Ls$r=<B-9kbN$NC5:w$r9TJ&L?Na!#

   (c) Dc5iL?Na

   J*BN$K8GM-$NBP>]J*%9%-!<%^$r;HMQ$9$k:]$KMQ$$$ilkL?Na!#3Nh&$JL?
   $NB8:_$Khj!"NLP $G?7$?$J%Q%i%a!<%?$r:n$j=P$7$F!"$=lrG'<1$KMQ$$$k
   H,G-$k!#

2.3.4 2hA|M}2r (IU) %b%8%e!<%k

IU %b%8%e!<%kKO!"J*BN$N0LCV8!=P$HFCD'H=JL$N 2 DN5!G=$,$"$k!#;DG0J,$i!"8
PICTION $,07$($kJ*BN (?) $O?M$N4i$@$1G"$k!#8=;~E@$G!"4i$+$iCj=P7F$$$kFCD'$
@-JL, F,NFE2 6q9g, ?M<o (Gr?M$+9u?M$+) G"$k!#

1. 4i$N0LCV8!=P

   @bL@J8$$+$i4i (?M) $N?t$H!">l9gKhCF$O4i$NBg$-$5$K4X$9$k<c43$N>pJs$,F@$i
   3liN>pJs$r85$K7F0LCV8!=P$r9T$J$&!#%"%k%4%j%:%`Cf$K$O!"4i$O$[$\BJ1_
   7F$$$k$H$$$C$?>pJs$,AH$_9~$^lF$$$k!#RH$?$S4i8uJd$N0LCV$,8!=P5l$
   $i!"$=l,K\Ev$K4i$+I&$+$rH=Dj9k!#4i$H?dDj$5lkNN0h$OD9J}7A$NNN0hH
   JV5lk,!"H-KO8mC?4i8uJd$,JV$5l?$j!"5)$K4i$rG'<1$G$-$J$+$C$?$j$
   3Hb"$k!#

   4i$N0LCV8!=P$OHf3SE*$&$^$/$$$/$,!"30OH$O$"$/$^$G$b4i$NNX3TGOJ/!"D9J}7
   NN0hJN$G!"8!=P8e$NFCD'Cj=PJI$N=hM}$r9T$&:]$K$O!"@53N$JNX3TCj=P$,MW5a$
   $k!#$=3G!"*snakes* $H8F$Plk<jK!$rMQ$$$F!"D9J}7A$G0O$^l?NN0h$NF~NO$KBP
   $F!"$=$NNN0h$NCf$G4i$NNX3T$rC5$9!#$?$@$7!"4i$OI,$:$7$bOHFb$K<}$^$C$F$$$k$
   GO$J$$$N$G!"<B:]$OOH30KO$_=P$FC5$7$Fbh$$$h$&$K7F$"$k!#

2. 4i$NFCD'Cj=P

   $3$3GO!"G'<12aDx$GLrN)$Dh&$J2hA|>pJs$NCj=P$r9T$JCF$$$k!#

   @-JL$NH=JL$K$D$$$F8@$($P!"%K%e!<%i%k!&%M%C%H%o!<%/E*$J9=B$$N%W%m%0%i%`$rN
   $F!"4i$N@5LL$N2hA|$r85$K71N}$r7+jJV7$F3X=,$5$;$F$$$k!#<B:]KO$"$ifk4
   8~$-$KBP1~7J1lPJiJ$$$,!"$=$l$O:#8e$N2]BjG"$k!#

2.4 <B83

K\%7%9%F%`$r!V%P%C%U%!%m!<!&%K%e!<%9!W$H!V%K%e!<%h!<%/!&%?%$%`%9!W$NFs;f$+
il$? 50 $N@bL@J8IU$-$N<L??$KBP7FE,MQ7?!#E}7WE*$J7k2L$rO@$:$kKO%5%s%W%k
>/$J$$$,!"7k2LH7$F 65% $OA4?MJ*$r0l0U$KG'<1$9k3HK@.8y7?!#0lJ}!"<:GT$NF
$O!"4i$NG'<1$N8m$jKhkbNG$"$C$?!#9=J82r@O$N8mjKhk<:GTOo$:$+ 1 Nc$K
J+C?!#

8=:_!"K\%7%9%F%`KBP7$F 500!A1,000 $N%G!<%?$rM?$($k<B83$r9T$C$F$$$k!#3N<B83
$O!"DL?.<R$+$iD>@\2hA|$NDs6!$r<u$1$F$$$kNG!"%9%-%c%sKh$k2hA|$NNt2=$rL5;k
kh$&$KJk!#

3 $*$ojK

0J>e$G>R2p$7$?$? *PICTION* $H$$$&%7%9%F%`$N<h$j07$&J*BN$O?7J9$N<L??Cf$N4i$K8BDj
lk$,!"%7%9%F%`$N4pK\E*$J;WA[$OINh&$J<L??$KbE,MQG$-$k$@$m$&!#EvA3$J$,
lr<BAu9kHJkHFq$7$$$@m&$,!":#8e%^%k%A%a%G%#%"!&%G!<%?%Y!<%9$r9=C[$9
KO;29MK9Y-8&5f$@$H;W$&!#

8=:_$N%G!<%?%Y!<%9!&%7%9%F%`$NB?$/$O!"%-!<%o!<%I$rF~NO$7$F8!:w$9kbN@$, $N%-!<%o!<%I$O4pK\E*KO$"$i$+$8$a?M4V$,<L??$r8+$F%-!<%o!<%IrIU1J/FO$J $$!#<L??$+$i%-!<%o!<%I$r<+F0E*$KCj=P9kh&$J8&5f$b?JailF$$$kh&$@$,!" l?BP>] (6u73$NHt9T5!$d!"3$73$N4OA%JI) KHI^k3H,B?$$!#$=$Nh&$K8BDj krF@$J$$$N$O!"2hA|>pJs$N$_$+$i>pJs$rCj=P7h$&$H9k$+$iG"$k!#

K\%7%9%F%`$N$h$&$K!"IUB0$9$k@bL@J8$rMQ$$$F%-!<%o!<%I$rCj=P$9$k$H$$$&<jK!$O!" $F$_$l$P!"$"$i$+$8$a%-!<%o!<%I$N8uJd$,$D$1$i$l$F$$$k$b$N$rBP>]$H$9$k$h$&$J$b $"$k!#$3$l$G$O4{B8$N%7%9%F%`HOHf3S$NBP>]$KJi$J$$$+b7lJ$$$,!">/J/$H J9$H$$$&F|!9BgNL$KN.F~$9$k0B2A$J>pJs8;$r85$K7F$$$kNG!"KDBgJNLG$+$D<o!9 >]$K4X$9$k%G!<%?%Y!<%9$rMF0W$K9=C[$G$-$k!#

$=$N$?$aKO!"J*BN$,$INh$&$J8~$-$G<LCF$$$F$bG'<1$G$-$kh&$J[3]%"%k%4%j%:%` 7A>u$N0[$J$kF1<o$N$b$N$rG'<1$9$k$h$&$J%"%k%4%j%:%`$N8&5f$,9T$JolJ1lP $J$$!#

7+$7!"$=lr<B8=7?$@$1GO2hA|$H<+A38@8l$NM;9gKOJi$J$$!#%-!<%o!<%I $k8!:w$K94E%9k8BjO!"<+A38@8lKh$k8!:w$H$$$&BgA0Ds$,$"k,!"??$N%^%k%A%a %"!&%G!<%?%Y!<%9GO2hA|Kh$k8!:w$b<+A38@8lKh$k8!:w$HF1Ey$K9T$J$($J$/$F$O $J$$!#$=$N$?$aKO!"F~=PNO$NE@$G$b%7%9%F%`Fb$G$N%G!<%?I=8=$NE@Gb!"2hA|$H<+ 8l$,F1Ey$K=hM}$5lJ$/$FOJiJ$$$@m&!#

$^$?!"K\NX9VGO@E;_2h$K8B$C$?OC$r7?$,!"%^%k%A%a%G%#%"$H$$$&$+$iKO!">- F02hA|%G!<%?%Y!<%9$rBP>]$K7?%7[4]%9%F%`$b07$($k$h$&$J%7%9%F%`$K4X$9$k8&5f$b 9TJolJ1lPJiJ$$$@m&!#

;29MJ88%

1. *Photo Understanding Using Visual Constraints Generated from Accompanying Text*
   Rohini K. Srihari; AAAI-94 Workshop –Integration of Natural Language and Vision procesing–
2. *PICTION: A System that Uses Captions to Label Human Faces in Newspaper Photographs*
   Rohini K. Srihari; AAAI-94 proceedings.
3. *A Computational Model for Face Location based on Cognitive Principles*
   Venu Govindaraju, Sargur N. Srihari, David Sher; AAAI-92 proceedings.
4. *Visual Semantics: Extracting Visual Information from Text Accompanying Pictures*
   Rohini K. Srihari, Debra T. Burhans; AAAI-94 proceedings.
5. FC=8!!V?^Kh$k?dO@!W
   @>ED K-L@, 0B@>M40lO: Ey; ?M9)CNG=3X2q;o Vol. 9 No. 2 (1993 G/ 3 7n).
6. Z 2q [<u83JT] Be?t!&4v2?$N%H%l!<%K%s%0
   EZ;U @/M:, F#ED ?JJ?; A}?J2q=PHG<R (1987 G/ 9 7n 20 F|).
7. El5~Bg3X@8;:5;=Q8&5f=j 1994!A1995
   El5~Bg3X@8;:5;=Q8&5f=j JT.

[3] 3Nh&$J%"%k%4%j%:%`$O4{$K8&5f$5lF$$$F!"FCDj$NJ*BN$KBP7F$O@.8y$7$F$$$k$,!"0lHLE*$K $r9T$J$($kh&JbNO$^$@K\3JE*KOEP>l7F$$$J$$

[4] F02hA|$+$i>pJsCj=P$r9T$J$&8&5f$O NHK JI$G9T$JolO8aF$$$k