Ovaj PDF sadrži skenirane postupke svih 1.MI 2013.-2007.

Postupci su poredani od 2013. do 2007

Riješio i ustupio na skeniranje

fer0vac

skenirao

<u>SipE</u>

(a) bar jedam
$$A$$
 (A - miledam A s)

$$F(A) = A - \frac{A}{52}$$
(b) Szarata melitite jative $P(8) = \frac{A}{52}$
(c) G into boja $P(G) = \frac{A}{52}$
(d) G into a suith boja G into suith boja G into suith boja G into a suith boja G into

(a) ne vrata

$$X \sim \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 1 \\ \frac{1}{5} & \frac{1}{5} &$$

doz ne B

THE IS IN THE LADA

$$F(x) = F(x - x) = \frac{P_{1}}{P_{2}} = (4)$$

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$$F(x) = \frac{P_{2}$$

$$\frac{1}{3} = \frac{1}{3} + \frac{1$$

[](b) P(A+A)=P(N)=[] P(A+A) = P(A) + P(A) (A) = P(A) = P(A) => P(A) = 1 - P(A) 2) 7 branch parova 2 5 0906a (a) suit 5 osoba istog spola $P(A) = \frac{\binom{2\sqrt{2}}{5}}{\binom{19}{5}}$ (b) medi tih 5 miti jedan braini por , and 7 parova browns 5 P(B) = (3) (25) 12 til 5 da li je ti iliet (3) ispitable ima bolest test de biti Postivan 0,90 -11- mema _11--11- POZ 19 (VAN 0,05 0,02 POPULACIJE I MA BOLEST NEMA -11-A= " TEST POZITIVAN " the " 130124115 INA BOLEST" P(H1)=0,02 P(H2) = 0, 98 }Z=1W HZ= " -11- NEMA -11- " P(A|H1)=0,9 P(A|H2)=0,05 P(A) = ZP(H;)P(A)H;)=0,02.0,2 +0,98.0,05 =0,067 $P(H_1 \mid A) = \frac{P(H_1)P(A|H_1)}{F(A)P} = \frac{0.02 \cdot 0.2}{F(A)P} = 0.268$ 1,2,...,10 jizvlacimo h tuglice (bez matanja X = drug. majveé. 12 vuceur lorg. X ~ (12 95) 5 12 365 } 5 1203 TTO YAM by ferovac

 $X \sim B(n, p) = B(300, 0, 01) \approx P(N = mp) = P(300.0, 01) = P(N=8)$ P(X=4)=1-7(X=3)-P(X=2)-P(X=0) A(x=F)= VF 6-V $P(X24) = 1 - \frac{3^3}{3!} e^{-3} - \frac{3^2}{2!} e^{-3} - \frac{3^1}{1!} e^{-3} - \frac{3^0}{0!} e^{-3}$ $=1-e^{-3}\left(\frac{23}{6}+\frac{9}{2}+3+1\right)$: $(-13e^{-3})$ brojas XEO, 2J Z= apsolutua urijednost razlise ta dva bro x e Casz 5= Co, 0 B(5<5)=3 2= |x->1 P (1x->1<2)= m (G2) 1x-41 <2 -2< y-x<2/1x x-5 < 2 < x * € (ii) sliza

od 300 projevoda

barem 4 neispravna

7,7

5

0,99

X = broj neisprouvnih

LD 241, 2009 1 X ~ E(N) E(X)=3 = 1 = 1 R= 13 P(2<×<3/×>>2)=? P(2 < X < 3) = F(3) - F(2) = (*) F(x)=1-e-1x =1-e-3x F(2)=1-e-3 H(3)=1-e-3/3=1-e-1 $(*)= (x-e^{-1}-(x-e^{-2/3})=-e^{-1}+e^{-2/3}$ P(X72)=1-F(2)=1-(1-e-2/5)=e-2/3 $P(2 < x < 3 | x > 2) = P(2 < x < 3) = -\frac{e^{-1} - e^{-2/3}}{e^{-2/3}} = 0.28$ TTU YAM

tru

(7) Y= X2

by ferevac

X=jednolitu razdidou [-2,1]

0,000 8) of 08 = N b(P) = 12 (32 /w-1); (4) € m=90 to je 1 (20) w! 2 PAASC < 25 PAADE = 1y-2/ V L25 1y-x1v2 50/v vzNo cm 14-21 < 50 14-2/ 25 -5 6 3-x 65/4x X-5646X45 45 ×4 C 427-2 P(A)= 102-52-52 = 0,75

hy ferbac

[] (a)

(15) (75) m!

-

3 DEFLETOR USINEZI M DION 950 (97 MA LAZE 50 505 A=11 DETERBOR LARI SORE da ISPITANIZ LARE" HA="19PITANIE GOVORI ISTINU" -11- LAZ" P(HA)=0.95 P(He)=0.05 P(A1 H2)=0,99 p(A(H,) = 0,01 (a) RA) = Z P(H;) P(A|H;) =0,059 (6) P(H2/A) = P(H2) P(A/H2) = 0,05.0,99 = 0,839 [217] Koda je bacena 7 picto (a) Sestica dosinena tez u 7. bac. $P(A) = \frac{56 \cdot 6}{67}$ Sestica (b) séstica baren jednou (tj. jesnou, dua puta) P(B) = 1 - P(nijednom šestica) = 1 - 57 (c) řestica torno jednom

P(c) = 56.0 177 | je dobívena řestica

$$P(Y=1|X70) = P(Y=1,X70) = P(Y=1,X=0) + P(Y=1,X=1)$$

$$P(Y=1|X70) = P(X70) = P(X=0) + P(X=1)$$

P(x = 3) = P(x > 3,25) = 1 - P(x = 3) - P(x = 2) - P(x = 1) - P(x = 0)

IMI 2010 1 52 mite P(4) = (a) FLUSH (6) ROYAL FLUSH (4) $(\frac{4}{3})(\frac{4}{2})(\frac{12}{2})$ (c) FULL HOUSE (d) DUA PARA (5-4) (5 (a) x<y y->>1=747 => -4>(y < 4=4 5=118 =72=4 (6) 4>1 X=1 4= 2 - 1 × < 4 $\frac{\frac{2^{2}+2^{2}}{2}-\frac{2}{2}}{5^{2}}=\frac{\frac{4}{2}+\frac{4}{2}}{\frac{25}{25}}=\frac{4}{25}=0.46)\frac{45\times -1}{0-1}=0.4-1$ 4-5-1= 4=4 AM UD by ferbrac

34%

A -> A, 0

2140 3 -> 3,0

(A) X, ~ P(N,) X2 ~ P(N2)

(A) 68 : 4C 258 (a) odjednom zveng s vra Eavjen a i-tom iorlaient de bila c POWER POSUSA $P(\mathbf{B}) = \left(\frac{6}{10}\right)^{\frac{1}{2}} + \left(\frac{6}{10}\right)^{6} \left(\frac{1}{10}\right)^{6} \left(\frac$ da bi bili nezavisni P(ABC)= P(A)P(B)P(C) P(AB) = P(A) P(B) KAO)=P(A) P(C) P(BC)=P(B)P(C) (5) 7(A(B+0))= P(AB)+(AO)=P(AB)+P(AC)-P(ABC) = P(A) P(B) + P(A)P(B) - P(A)P(B)P(C) = P(A) [P(B) 4P(C) - (P(B)P(C)) => P(BC) P(B+0) = P(A).P(B+C) Provaluiz 2:50 3:00 x e [0, 10] Policajac 4 € CO,10] (a) (x2y). 9-8 62 4 < 2+x $P(A) = \frac{40^2 - 8^2 - 2^2}{12} = 0.555$ by fertivac

$$P(H_{2}|A) = P(H_{2})P(A|H_{2}) = 0.32 \cdot 0.49$$

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prije dolara

$$P(x-y=0) = P(x=1,y=-1) + P(x=-1,y=1)$$

THAN OFFE by PerDiac

 $\frac{4 \times | -1|}{-1} \frac{1}{P(x=-1,Y=-1)} \frac{1}{P(x=-1,Y$ -1 - (-1)X-7 poprime -2,0,2

E(x)=1.1 +2.3 +... + + 13 = 36 = 5.14

-1 - (1)

1 - (-1)

 $\begin{array}{ccc}
\gamma \sim \begin{pmatrix} -1 & 1 \\ \frac{5}{6} & \frac{3}{6} \end{pmatrix}
\end{array}$

[5] X= maks od 2 broja { 1, ..., 7}

X=3 => 43 23 33 34 32

 $\times \sim \begin{pmatrix} 1 & 2 & 3 & 4 \\ \frac{4}{7} \end{pmatrix}^2 \qquad \frac{3}{49} \qquad \frac{5}{49} \qquad \frac{3}{49}$

13 12 Roptica h defeatur 8 dobrih D (a) toôno 1. Sef EX4) (12) (b) vajvice 1. Sef S(B)= (4)(3) (12) (12) 1.5ef 3 647-4 4-475 3L > 4 P(A) P(A)-丁) タく> 9= 1-4X profes > 2 F

Hi = " u prvom bacunic pas je broj i" =7 1 + 1 + 1 = 6 = 1 N P(A/44) = 0 $P(A|H_2) = 0$ => azo pe u prvom bacamin pa o br. 1; zolita je $P(A|H_2) = \frac{\binom{2}{2}}{\binom{2}{2}}$ ma dvije se pash: dvije s-ize p(A/Hz) = (3) (5) — 7 bilo storia suoj weli soja nije 5 P(A(H6)= (6)57 $p(A|H_4) = \frac{\binom{4}{5}}{5^2}$ $p(A|H_5) = \frac{\binom{4}{5}}{5^2} = \frac{624}{\binom{5}{5}}$ P(A) = = THi) P(A(Hi) = 0,136 P(H5|A) = P(H5) P(A|H5) = 16 - (5) 54 - 0,402 H2="II M M" 0,4 0,6 TV 0,8 (a) meta ée biti pogodena 1- F(nje pogodena) P(A) = 1 - 0.80,4.0,3.0,2=1-9=0,3856 (6) B-11 neta il popodera o tocho o metra" HA= "ABC 5" P(HA)= 0,4.0,6.0,7.0,2.0,0336 P(B) HA)=1 #2= " ABZD" P(H2)= 0,4.0,6.0,3.0,8=0,0576 7(3)H2=1 9(H3) =0,4.0,4.0,7.98-0,0896 9(3/H3)=1 H3="ARCD" 7(+4)=0,6.0,6.0,2.0,8=0,2016 9(3/4)=1 Hu="ABCD" P(H, B) = 0,0336 H5 - H16 NEBITHO 7 = 7 7 (8) 45)=0 0,0336+0,0576+0,0836+0,2016 P(H, IR) = 1 MERG

[4]. A=" pale sa obvije 5-ice"

(a)
$$y = x_1 + x_2$$

 $x_{21} \times x_1 \times x_2$
 $y = x_1 + x_2$
 $y = x_1 + x_2 \times x_2$
 $y = x_1 + x_2 \times x_2$
(1-p) p (1-p) p (1-p) p (1-p) p (1-p) p (1-p) p

R = 180 mailoval 1h. 180 / 60 = 3 maila / min P(X23) = 1 - P(X=0) - P(X=1) - P(X=2) $= 1 - \frac{30}{0!} e^{-3} - \frac{3^{1}}{1!} e^{-3} - \frac{3^{2}}{2!} e^{-3}$

by ferovac

(c) 18 · 180 pomita

四、22、30,47 (a) 2 vaznobojne zuglice $R(A) = (\frac{2}{3})(\frac{3}{3}) + (\frac{3}{3})(\frac{1}{3}) + (\frac{3}{3})(\frac{1}{3}) = \frac{(\frac{3}{3})(\frac{1}{3})}{(\frac{3}{3})(\frac{1}{3})}$ (b) roputa po 2 suglice baren 2 puts bile izvacène tuglice iste boje extrumo suprotno: nijedauput i jedauput se izvuitu istobojne $P(B) = 1 - \left(\frac{13}{18}\right)^{10} - \left(\frac{5}{18}\right)^{1} \left(\frac{13}{18}\right)^{3} \left(\frac{10}{10}\right)$ to puta rashicite boje) 29 puta rasmobogine - odabit poèusa u rojem su pale iste ruglice [0,60], 20 min na tran x, y & [0, 60] 1x-y1 <20 tada de se srestu -20 Lx-y 20 /-x -20-x2-y220-x/(-1) 2042747 8-20 $\mathcal{H}(A) = \frac{\mathcal{U}(A)}{\mathcal{U}(A)} = \frac{\omega_3 - \frac{2}{40} - \frac{2}{40}}{\omega_3 - \frac{2}{40}}$ P(A) = = = 0,55 6 by ferbrace 20

$$\frac{x/7}{1} = \frac{1}{112} \frac{1112}{112} \frac{1112}{113} \frac{1112}$$

$$\sum_{k=0}^{2} \frac{1}{2} \left(\frac{1}{2} \right)^{2} \left(\frac{1}{2} \right)^{3} 2 \cdot \left(\frac{1}{2} \right)^{4} \dots 2 \cdot \left(\frac{1}{2} \right)^{6} \dots 2 \cdot \left(\frac{1}{2} \right)^{6$$

 $E(\chi)=2\left(\frac{\frac{1}{2}}{\left(1-\frac{1}{2}\right)^2}-\frac{1}{2}\right)$

E(Y)=4 => 12=E(Y)=4

[3] b) $E(x)=3 \Rightarrow \sqrt{=E(x)}=3$

b(x+ 1=10)=3

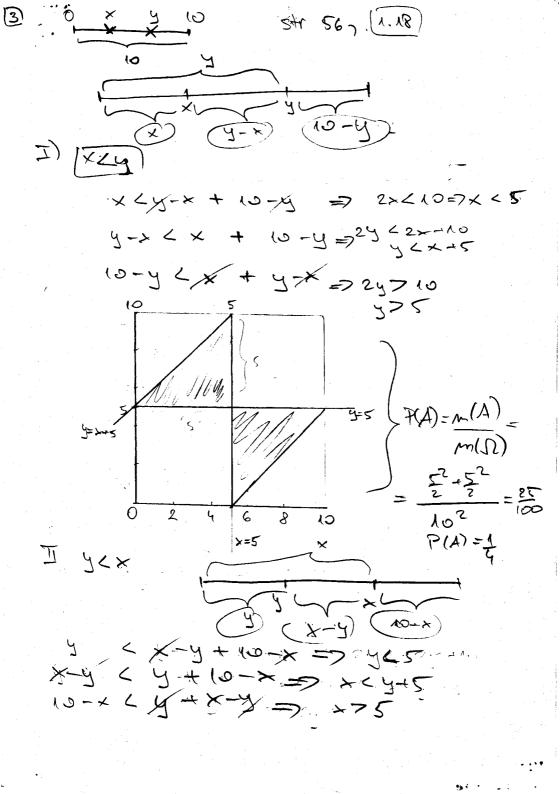
E(x)= 2 (2-1)= 2(3)=3

N=N, + N2=7 (for su nez.)

 $f(x+y=10) = \frac{f}{1-1} e^{-\frac{f}{f}} = (0) = f + \chi + \chi = 0$

. .

(1) b(4/8)=0'35 => b(4/8)=0'25



23 c 3C A= " IZVUCENA JE C " Hx=" 2810" + 8= " 1BZC" +13="30" P(#3/A)=? $P(H) = \frac{3}{3}(3)^{2} = \frac{3}{10}$ $P(H_{2}) = \frac{3}{3}(3)(3)^{2} = \frac{3}{10}$ $P(H_{2}) = \frac{3}{3}(3)(3)^{2} = \frac{3}{10}$ P(48) = (8) (3) 2000 (3) - 10 p(A/H2) - (2) = 2 (,H) x) q(, H) = = (H) P(A(H3) = (3) = 1 T(A)= 2 1 1 10 2 10 P(Hg/A) = P(Hg)P(A(Hg) = 10. MAN UTD by ferduac

2810 18 50

5 6 x 3 su/3 = 2 vj. X= broi ba canja