UNIVERSITAS PAMULANG
KARTU UJIAN AKHIR SEMESTER GENAP 2021/2022
NOMOR UJIAN : 924867041374

FAKULTAS / PRODI : TEKNIK / TEKNIK INFORMATIKA S1

NAMA MAHASISWA : WISNU AGUS SEPTIAN

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SHIFT : REGULER B

No	Hari/ Tanggal	Waktu	Ruang	Kelas	Mata Kuliah	Paraf
1	-			06TPLM003	KOMPUTER GRAFIK I	1
2	-			06TPLM003	PEMROGRAMAN WEB 2	2
3	-			06TPLM003	REKAYASA PERANGKAT LUNAK	3
4	-			06TPLM003	SISTEM INFORMASI MANAJEMEN	4
5	-			06TPLM003	KECERDASAN BUATAN	5
6	-			06TPLM003	TEKNIK KOMPILASI	6
7	-			06TPLM003	KERJA PRAKTEK	7
8	-			06TPLM003	MOBILE PROGRAMMING	8

Peraturan dan Tata Tertib Peserta Ujian

1. Peserta ujian harus berpakaian rapi, sopan dan memakai jaket Almamater
2. Peserta ujian sudah berada di ruangan sepuluh menit sebelum ujian dimulai
3. Peserta ujian yang terlambat diperkenankan mengikuti ujian setelah mendapat ijin, tanpa perpanjangan waktu
4. Peserta ujian hanya diperkenankan membawa alat-alat yang ditentukan oleh panitia ujian
5. Peserta ujian dilarang membantu teman, mencontoh dari teman dan tindakan-tindakan lainnya yang mengganggu peserta ujian lain
6. Peserta ujian yang melanggar tata tertib ujian dikenakan sanksi akademik

Tangerang Selatan, 4 Juli 2022
Ketua Panitia Ujian

UBAID AL FARUQ, S.Pd., M. Pd
NIDN. 0418028702

No
Date

contoh perhitungan manual

a) berapa kecepatan jika
- 63 F°
- 35 %

Solusi
+ 63° F => cool = 0.25 warm = 0.75
+ 35 % => Partly cloudy = 0.83

If Cool and Partly cloudy then Slow (rule 5)
0.25 ∧ 0.8 = 0.25 -> Slow

If warm and Partly cloudy then Fast (rule ke 8)
0.75 ∧ 0.83 = 0.75 -> Fast

$$\text{Speed} = \frac{(\text{Slow} \times 25) + (\text{Fast} \times 75)}{\text{Slow} + \text{Fast}}$$

$$= \frac{(0.25 \times 25) + (0.75 \times 75)}{0.75 + 0.25}$$

$$= \frac{6.25 + 56.25}{1} = 62.5$$ solusi sesuai

No
Date

1) cloud (< 20)
Sunny = 1
Partly cloudy = 0
Overcast = 0

2) cloud (> 20 and < 40)
Sunny = $\frac{40 - \text{cloud}}{40 - 20}$
Overcast = 0

3) cloud (> 20 and < 50)
Partly cloudy = $\frac{\text{cloud} - 20}{50 - 20}$

4) cloud (50)
Sunny = 0
Partly cloud = 1
Overcast = 0

5) cloud (> 50 and < 80)
Sunny = 0
Partly cloudy = $\frac{80 - \text{cloud}}{80 - 50}$

6) cloud (> 60 and < 80)
Sunny = 0
Overcast = $\frac{\text{cloud} - 60}{80 - 60}$

7) cloud (>= 80)
Sunny = 0
Partly cloudy = 0
Overcast = 1

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NIM : 1910114100313

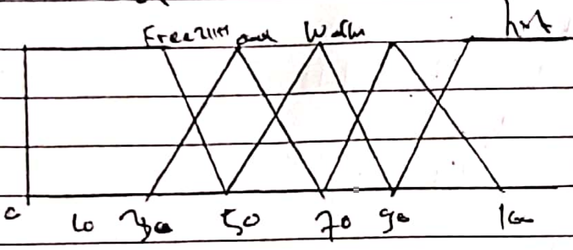
06TPLM003

kecerdasan buatan

Menghitung kec. mobil berdasarkan Suhu dan Cuaca?

Fuzzifikasi

Terdapat 2 variabel yaitu temperatur dan cloud
temperatur punya 4 linguistik yaitu freezing, cool, warm, hot
cloud mempunyai 3 nilai linguistik yaitu Sunny, Partly cloudy, overcast



1.) Temp (<= 30)
Freezing = 1
cool = 0
warm = 0
hot = 0

2.) Temp (> 30 dan < 50)
freezing = $\frac{50 - temp}{50 - 30}$
cool = $\frac{temp - 30}{50 - 30}$
warm = 0
hot = 0

3.) Temp (= 50)
freezing = 0
cool = 1
warm = 0
hot = 0

4.) Temp (> 50 < 70)
freezing = 0
cool = $\frac{70 - temp}{70 - 50}$
warm = $\frac{temp - 50}{70 - 50}$
hot = 0

5.) temp (= 70)
Freezing = 0
cool = 0
warm = 1
hot = 0

7.) temp (> 70 dan < 90)
freezing = 0
cool = 0
warm = $\frac{90 - temp}{90 - 70}$
hot = $\frac{temp - 70}{90 - 70}$

8) temp (>= 90)
freezing = 0
cool = 0
warm = 0
hot = 1

No
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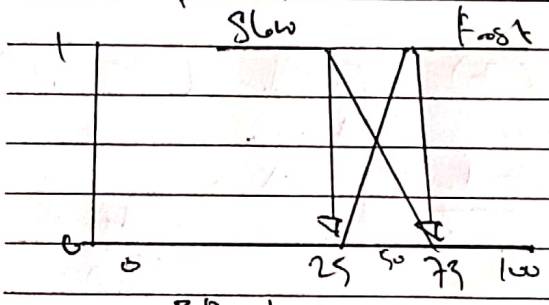
* Sistem Inferensi
membuat aturan. Jumlah aturan = ∑ Var temperatur x ∑ Var cloud cover
= 4 x 3 = 12

rules
1. If Freezing and Sunny then Slow
2. If Freezing and Partly cloudy then Slow
3. If Freezing and Overcast then Slow
4. If cool and Partly cloudy then Slow
5. If cool and Sunny then Slow
6. If cool and Overcast then Slow

fungsi pembobotan memakai konjungasi. contoh:
1.) If it's Sunny and Warm, leave Fast
Sunny (cover) ^ Warm (temp) => Fast (speed)
Fast = (Min (Sunny (cover), Warm (Temp))

E) Defuzzifikasi



Speed is 20% slow
70% fast

Speed : weighted mean
= (Slow * 25 + Fast * 75) / (Slow + Fast)
= 2 mph