1
00:00:06,889 --> 00:00:03,649
good morning everyone

2
00:00:12,910 --> 00:00:06,899
today I'm talking about my study devoted

3
00:00:20,840 --> 00:00:12,920
to field rng random number generator and

4
00:00:23,420 --> 00:00:20,850
just readings right altitude of random

5
00:00:28,099 --> 00:00:23,430
generator during coherent events would

6
00:00:30,700 --> 00:00:28,109
show animalistic statistical biases but

7
00:00:36,530 --> 00:00:30,710
little is known about our energies

8
00:00:38,959 --> 00:00:36,540
output reliability generalization study

9
00:00:47,720 --> 00:00:38,969
for figured energy studies would be

10
00:00:51,680 --> 00:00:47,730
expected but what is reliability define

11
00:00:54,680 --> 00:00:51,690
as consistency or stability of

12
00:00:57,439 --> 00:00:54,690
measurement channel measured be

13
00:01:00,590 --> 00:00:57,449

confirmed by further measurements or

14
00:01:05,539 --> 00:01:00,600
observations if you measure the same

15
00:01:10,310 --> 00:01:05,549
thing would you get the same Sheen same

16
00:01:14,780 --> 00:01:10,320
scope for example case of weight machine

17
00:01:21,770 --> 00:01:14,790
test retest first weight machine shows

18
00:01:24,770 --> 00:01:21,780
52 major 50 kilogram second if the

19
00:01:30,440 --> 00:01:24,780
weight machine has high reliability we

20
00:01:36,550 --> 00:01:30,450
can get same similar value even if

21
00:01:44,400 --> 00:01:36,560
condition differs stable value is got

22
00:01:55,120 --> 00:01:49,090
but if lowly liability so different but

23
00:02:00,640 --> 00:01:55,130
even if same condition so intricate

24
00:02:04,560 --> 00:02:00,650
trust correlation is used in variability

25
00:02:10,240 --> 00:02:04,570
index defined as a ratio of variance I

26
00:02:15,660 --> 00:02:10,250
see she is the ratio of variance within

27
00:02:19,150 --> 00:02:15,670
variance and between variants so become

28
00:02:26,320 --> 00:02:19,160
- between variance is more than within

29
00:02:28,420 --> 00:02:26,330
variance case of arranged outputs we

30
00:02:32,220 --> 00:02:28,430
examine whether measurement can

31
00:02:36,130 --> 00:02:32,230
reproduce same score or - same target

32
00:02:43,000 --> 00:02:36,140
exploring optimal conditions which show

33
00:02:45,990 --> 00:02:43,010
good enough reliability my purpose to

34
00:02:49,000 --> 00:02:46,000
evaluate our energy output reliability

35
00:02:52,770 --> 00:02:49,010
exploratory on the assumption that our

36
00:02:57,759 --> 00:02:52,780
angel which concerns with consciousness

37
00:03:00,940 --> 00:02:57,769
how to apply filter on Angie using same

38
00:03:07,800 --> 00:03:00,950

event repetitions movie theater

39
00:03:21,620 --> 00:03:12,240
assuming audience emotion influence

40
00:03:34,550 --> 00:03:24,470
at which transition pattern depends on

41
00:03:38,660 --> 00:03:34,560
movie scenes different patterns will be

42
00:03:45,560 --> 00:03:38,670
observed in case of other movie in case

43
00:03:50,500 --> 00:03:45,570
of horror movie animation exciting nesaf

44
00:03:55,640 --> 00:03:50,510
and so on and asking how long period

45
00:04:00,770 --> 00:03:55,650
level would be optimal to capture up

46
00:04:07,910 --> 00:04:00,780
down cycle faster cycle or through a

47
00:04:12,910 --> 00:04:07,920
cycle so we analyze the dependent

48
00:04:15,610 --> 00:04:12,920
variable to check the reliability

49
00:04:19,630 --> 00:04:15,620
current study used

50
00:04:24,010 --> 00:04:19,640
DWT discrete discrete wavelet transform

51
00:04:27,650 --> 00:04:24,020
the compulsion with heart filter

52
00:04:32,920 --> 00:04:27,660
computing scale questions and detail

53
00:04:42,340 --> 00:04:32,930
coefficients both of them is

54
00:04:46,910 --> 00:04:42,350
standardized score for example creating

55
00:04:50,540 --> 00:04:46,920
the detail squad first DJ's question is

56
00:05:00,800 --> 00:04:50,550
computed by difference between two sets

57
00:05:02,900 --> 00:05:00,810
for us and second is the same and scale

58
00:05:06,890 --> 00:05:02,910
coefficient is computed by summation

59
00:05:14,690 --> 00:05:06,900
between original to Rosco us in the same

60
00:05:20,660 --> 00:05:14,700
same same and now we get information of

61
00:05:23,120 --> 00:05:20,670
details coefficients so DWT decomposed

62
00:05:27,260 --> 00:05:23,130
original outputs into information of

63
00:05:29,180 --> 00:05:27,270

detail coefficients all the and detailed

64
00:05:32,480 --> 00:05:29,190
coefficients are independent from each

65
00:05:33,930 --> 00:05:32,490
other including information of period

66
00:05:39,060 --> 00:05:33,940
ranks

67
00:05:44,200 --> 00:05:41,500
compressive making it possible to

68
00:05:50,110 --> 00:05:44,210
examine how long period with length

69
00:05:55,480 --> 00:05:50,120
would be optimal so data structure

70
00:06:01,480 --> 00:05:55,490
becomes repetition and time length for

71
00:06:08,260 --> 00:06:01,490
each level as she she become high

72
00:06:13,150 --> 00:06:08,270
between balances higher than with vision

73
00:06:16,750 --> 00:06:13,160
variants for each level time index P is

74
00:06:20,020 --> 00:06:16,760
created when level one sample sizes Raj

75
00:06:25,050 --> 00:06:20,030
and whereas upper levels have small size

76
00:06:34,900 --> 00:06:31,440
procedure we conducted at movie theaters

77
00:06:38,530 --> 00:06:34,910
experiment experiment to run on the mg

78
00:06:50,650 --> 00:06:38,540
connected with PC in the baggage by not

79
00:06:55,210 --> 00:06:50,660
yet be a movie being a movie and doing

80
00:07:08,550 --> 00:07:03,659
so our previous data set URIs departures

81
00:07:12,730 --> 00:07:08,560
which is suddenly bit for shoot movies

82
00:07:16,840 --> 00:07:12,740
at the classes and Japanese animation

83
00:07:23,400 --> 00:07:16,850
movies and newly fizzy experiments

84
00:07:30,040 --> 00:07:23,410
conducted additional horror movies and

85
00:07:32,890 --> 00:07:30,050
Star Wars and mystical results show for

86
00:07:38,860 --> 00:07:32,900
each level J using detail coefficients

87
00:07:42,219 --> 00:07:38,870
to this range 90% confidence interval I

88
00:07:50,439 --> 00:07:42,229

she she arranged from negative infinity

89
00:07:57,060 --> 00:07:50,449
to 1 point 2 0 maximally expecting 0 is

90
00:07:57,070 --> 00:08:01,420
short movies and is out

91
00:08:13,760 --> 00:08:07,279
to small sample size becoming Erebus Raj

92
00:08:16,279 --> 00:08:13,770
so examination period and the animation

93
00:08:21,100 --> 00:08:16,289
movie showed partially hided abilities

94
00:08:26,659 --> 00:08:21,110
at especially longer periods from movies

95
00:08:33,190 --> 00:08:26,669
showed no reliability Star Wars Episode

96
00:08:41,199 --> 00:08:37,279
mystery horror showing partially high at

97
00:08:45,130 --> 00:08:41,209
longer periods at game using Sairam

98
00:08:49,760 --> 00:08:45,140
so the trend study analyzed and

99
00:08:53,060 --> 00:08:49,770
evaluated interim Obi reliabilities of

100
00:08:55,430 --> 00:08:53,070
our energy outputs ashes were used to

101
00:08:57,650 --> 00:08:55,440
measure the reproducibility of our range

102
00:09:04,850 --> 00:08:57,660
at which corresponding to particular

103
00:09:07,850 --> 00:09:04,860
movie scenes we found January 5th our

104
00:09:11,810 --> 00:09:07,860
energy outputs are not reliable but

105
00:09:19,600 --> 00:09:11,820
siren produced relative high as she is

106
00:09:31,189 --> 00:09:22,699
negative liabilities were often a shown

107
00:09:38,519 --> 00:09:35,670
some results remain unexplained the

108
00:09:41,610 --> 00:09:38,529
movie departure showed quite lowly

109
00:09:45,780 --> 00:09:41,620
liability during control conditions and

110
00:09:49,949 --> 00:09:45,790
expected to be but we are unable to

111
00:09:53,460 --> 00:09:49,959
interpret this data because the

112
00:09:56,280 --> 00:09:53,470
experimental travel to both the pre and

113
00:10:04,079 --> 00:09:56,290

post measurement sessions of the batch

114
00:10:08,869 --> 00:10:04,089
of beer train or car so I cannot explain

115
00:10:14,520 --> 00:10:08,879
the death dater okay first the

116
00:10:22,549 --> 00:10:16,790
[Music]

117
00:10:28,379 --> 00:10:22,559
thank you Shimizu son questions Garrett

118
00:10:33,569 --> 00:10:28,389
so as you know I think that your effect

119
00:10:36,059 --> 00:10:33,579
may be an experiment or effect and in

120
00:10:40,319 --> 00:10:36,069
which you have an expectation of what

121
00:10:45,090 --> 00:10:40,329
the RNG will do and it does it so you

122
00:10:49,439 --> 00:10:45,100
said that the output direction depends

123
00:10:52,949 --> 00:10:49,449
upon the movie scenes that happy ones go

124
00:10:58,530 --> 00:10:52,959
one direction sad ones the other or or

125
00:11:02,519 --> 00:10:58,540
whatever if you have somebody different

126
00:11:06,329 --> 00:11:02,529
who runs the RNG do you get the same

127
00:11:13,919 --> 00:11:06,339
directions other people and try to

128
00:11:15,809 --> 00:11:13,929
experiment yes so I think including

129
00:11:20,519 --> 00:11:15,819
experiment effect

130
00:11:22,290 --> 00:11:20,529
so without different becomes different

131
00:11:27,400 --> 00:11:22,300
so different people get different

132
00:11:37,310 --> 00:11:33,500
experiment effect cannot explain all of

133
00:11:45,700 --> 00:11:37,320
the variants I think what can it not

134
00:11:57,020 --> 00:11:45,710
explain because random number generator

135
00:12:01,790 --> 00:11:57,030
detect the nature characteristics not

136
00:12:08,000 --> 00:12:01,800
only experimental effect I think okay I

137
00:12:10,460 --> 00:12:08,010
hope you will write more about this yeah

138
00:12:11,990 --> 00:12:10,470

that was my question as well but I

139
00:12:15,170 --> 00:12:12,000
wanted to follow up did you ever run

140
00:12:16,910 --> 00:12:15,180
with no one no experimenter just leave

141
00:12:18,910 --> 00:12:16,920
the random number generator when the

142
00:12:22,100 --> 00:12:18,920
movie is running

143
00:12:24,530 --> 00:12:22,110
no no experimenter just the random

144
00:12:31,300 --> 00:12:24,540
number generator in the movie when

145
00:12:36,320 --> 00:12:31,310
you're not there so you said my

146
00:12:40,340 --> 00:12:36,330
experiment if you are not there there is

147
00:12:44,600 --> 00:12:40,350
no experimenter in fact so is the movie

148
00:12:49,340 --> 00:12:44,610
affecting it or if you're not there so I

149
00:12:53,579 --> 00:12:51,869
thank you and I believe now we need to

150
00:12:54,170 --> 00:12:53,589
go here Chantal for the pictures all