





 It gives more powerfull analysis and improved insight!

Data froi Brock indivio senso Prefei	m: hoff and dual diffe ory evalu <i>rence</i> 5, 3	Sko eren atior 215-2	vgaard (19 ces betwee ns. <i>Food G</i> 224.	994): Moc en asses Quality an	lelling sors in d	
Source	SS	DF	MS	F	P Value	
Source	<b>SS</b>	DF	MS	<b>F</b>	P Value	
Assessor	1636.8	6	272.8	9.60	<0.001	
Source	SS	<b>DF</b>	MS	<b>F</b>	P Value	
Assessor	1636.8	6	272.8	9.60	<0.001	
Product	1329.5	4	332.4	11.70	<0.001	
Source	<b>SS</b>	<b>DF</b>	MS	<b>F</b>	P Value	
Assessor	1636.8	6	272.8	9.60	<0.001	
Product	1329.5	4	332.4	11.70	<0.001	
Interaction	681.8	24	28.41	5.42	<0.001	

Ar	Data from Brockl individ senson Prefer	of Varia n: hoff and lual diffe ry evalua ence 5, 2	Sko erend atior 215-2	ygaard (19 ces betwee s. <i>Food Q</i> 224.	994): Moo en asses uality an	lelling sors in d	
	Source	SS	DF	MS	F	P Value	
	Assessor	1636.8	6	272.8	9.60	<0.001	
	Product	1329.5	4	332.4	11.70	<0.001	
	Interaction	681.8	24	28.41	5.42	<0.001	
	Error	569.57	105	5.24			
DTU Co	"Us	ual" m	ixe	d model	ANOVA		

AI	Data fror Brock indivic senso Prefer	of Varia n: hoff and lual diffe ry evalua ence 5, 2	Sko ereno atior 215-2	ygaard (19 ces betwee is. <i>Food</i> Q 224.	994): Moc en asses Quality an	lelling sors in d	#
	Source	SS	DF	MS	F	P Value	
	Assessor	1636.8	6	272.8	9.60	<0.001	
	Product	1329.5	4	332.4	11.70	<0.001	
	Interaction	681.8	24	28.41	5.42	<0.001	
	Interaction Error	681.8 569.57	24 105	28.41 5.24	5.42	<0.001	

Aı	Data fror Data fror Brock indivic senso Prefer	of Varia n: hoff and dual diffe ry evalua ence 5, 2	Sko erene atior 215-2	e vgaard (19 ces betwe ns. <i>Food G</i> 224.	994): Moc en assess Quality an	lelling sors in d	DTU
	Source	SS	DF	MS	F	P Value	
	Assessor	1636.8	6	272.8	9.60	<0.001	
	Product	1329.5	4	332.4	11.70	<0.001	
	Interaction	681.8	24	28.41	5.42	<0.001	
	Error	569.57	105	5.24			
<b>рти с</b> е Depart	"Us mpute ment of Applied Mather	sual" m	ixe er Science	d model	ANOVA		

























Source	SS	DF	MS	F	P Value
Assessor	1636.8	6	272.8	9.60	<0.001
Product	1329.5	4	332.4	57.69	<0.001
Scaling	578.10	6	96.35	16.72	<0.001
Disagree	103.71	18	5.76	1.06	0.4003
Error	569.57	105	5.24		

Source	SS	DF	MS	F	P Value
Assessor	1636.8	6	272.8	9.60	<0.001
Product	1329.5	4	332.4	57.69	<0.001
Scaling	578.10	6	96.35	16.72	<0.001
Disagree	103.71	18	5.76	1.06	0.4003
Error	569.57	105	5.24		

Assessor 1636.8 6 272.8 9.60 <0.001	P Value	F	MS	DF	SS	Source
Product 1329.5 4 332.4 57.69 <0.001   Scaling 578.10 6 96.35 16.72 <0.001	60 <0.001	9.60	272.8	6	1636.8	Assessor
Scaling 578.10 6 96.35 16.72 <0.001	.69 <0.001	57.69	332.4	4	1329.5	Product
	6.72 <0.001	16.72	96.35	6	578.10	Scaling
Disagree 103.71 18 5.76 1.06 0.4003	0.4003	1.06	5.76	18	103.71	Disagree
Error 569.57 105 5.24			5.24	105	569.57	Error









	P-value C	lasses	DTU ##
	Classes		
	>0.20		
	0.10-0.20		
	0.05-0.10		
	0.01-0.05		
	0.001-0.01		
	<0.001		
Compute artment of Applied Mathematics	and Computer Science		



## Sensobase results (8091 attributes) Product structure

DTU

73

- 34% have P-values between 0.001 and 0.20 by ORIGINAL approach
  - 43% of these by move DOWN in P-value class by NEW approach
  - 11% of these by move DOWN MORE than ONE P-value class by NEW approach

## Confidence Intervals (CIs) for an pairwise differences

- Simple correction method OK for overall F test AND post-hoc pairwise null hypotheses.
- BUT for CIs a NEW method is necessary presented in the paper no details here.
- A potential large difference value induces larger variance than a smaller one – due to the "random scaling effect"

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In	dividua m	al perfo easure	ormanc s	e 🚆
Overall A	ANOVA ta	ble:		
	Source	SS	DF	
	Assessor	SS(Ass)	I-1	
	Product	SS(Prod)	J-1	
	Scaling	SS(Scal)	I-1	
	Disagreement	SS(Dis)	(I-1)(J-2)	
	-	00/5		









