DOMINANCE
MATRICES IN THE AFL,
DO THEY ACTUALLY
WORK?

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OBJECTIVE

Using dominance matrices creates the ability to rank teams accurately even if they haven't competed against each other in a season.

Our goal is to see if the dominance matrix method applied to the 2022 season after a certain number of rounds will give similar team rankings as the actual ladder after round 23.

Via the following calculation, $r1 = D(m)1 - (D(m))^T 1$, a first order ranking (r1) is established which is the most significant indicator in ranking teams.

A second order ranking is then calculated using $r2 = (D(m))^2 1 - ((D(m))^2)T 1$.

Walter (2011) suggests, supported by Swift (2009), that the second order ranking should be multiplied by 0.5 due to being less significant.

Finally, in case when for some rounds two teams played twice only the average of both scores will be considered and the winner awarded from that calculation. Rounds 10, 16 and 22 will be used for calculations for even distribution of early to late season.

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FIGURE 1.1 AFTER ROUND 10 DOMINANCE MATRIX

Name	r	Ranking	Actual Position after 10	Actual position after 23	Difference
geelong	56	7	6	1	-6
melbourne	360	1	1	2	1
sydney	16	9	7	3	-6
collingwood	-8	10	10	4	-6
fremantle	88	6	4	5	-1
brisbane	144	4	2	6	2
richmond	116	5	8	7	2
bulldogs	48	8	9	8	0
carlton	224	2	3	9	7
st kilda	200	3	5	10	7
port adelaide	-64	12	11	11	-1
gold coast	-44	11	12	12	1
hawthorn	-68	13	13	13	0
adelaide	-156	15	15	14	-1
essendon	-184	16	16	15	-1
gws	-112	14	14	16	2
west coast	-328	18	18	17	-1
north	-288	17	17	18	1

FIGURE 1.2 AFTER ROUND 10 RANKING

AFTER 10 ROUNDS

The following dominance matrices show after m rounds, after m rounds squared, after m rounds transposed and finally after m rounds transposed and squared. This was used to calculate r1, r2 and lastly r to determine ranking position, through the formulas displayed earlier.

	geelong	melbourne		collingwood	freo	brisbane	richmond		carlton	saints	port	gold coast		adelaide		gws	eagles	north	SUM
geelong		0 0				0 .	4 /				0 .	4 (4 4		4
nelbourne		0 0		0	0	0 .	4 4	4	4	0	4 .	4 4		1 4	4 /	4 .	4 4	4	4
ydney		4 4		0	0	0 (4	0	0	4 (0 0) 4		0 4	4 .	4 4		4
olingwood		0 4		0	0	4	0 4	0	0	4	4 1	0 4			4 4	4 .	4 6	0	0
remantle		4 4		n	0	0 .	4 4	0	0	4	0 .	4 () 4		4 4	4 .	4 4	4	4
brisbane		0 0					0 0					4 4					4 4		4
richmond		0 0					0 0					4					4		0
buildags		0 0				0 1													4
carlton		0 0										4 6					4 6		4
st kilda		4 6				4 1						0 4					4 6		4
port adelaide		0 0		4	0	0 0	0 0	0	4	0	4 1	0 4			9 4	4 1	0 4	4	4
gold coast		0 0		4	0	4 .	0 4	0	0	4	0	0 0	. 4		4 4	0 1	0 4	4	4
hawshorn		4 0		0	0	0 .	4 4	0	0	0	0 .	4 4				0 1	0 0	0	4
adelaide		0 0				0					0 .	4 4					0 4		4
essendon		0 0				0						0 0			4 4		0 0		0
gws		0 0				0 1						0 4					0 4		4
west coast		0 0) (0	4	0 1	0 0	0	0	0	0 1	0 0				4 1	0 0	0	0
north		0 0)	0	0	0	0 0	0	0	D	0	0 0) (0 0	0 1	0 4	4	0
AFTER 16^2	geelong	mebourne	and an	collingwood	freo	brisbane	richmond	buildogs	carlton	saints	port	gold coast	hawks	adelaide	essendon	EW5	anales.	north	SUM
											4 4						eagles		
geelong			4																90
melbourne	3				4 3						8 6								
sydney	3				18 1						2 6								90
colingwood	4		3	2	0 3	2 4						0 4		113	2 41			0 12	18
fremantle	1	6 0	4	8 4	18	0 4			6	0 €	4 9	6 6	64	91	5 9		4 112	2 12	18
brisbane	3					8			2 4	8 6	4 1						4 117		
richmond	1				12 3														80
hulldnes	3	2 37			6 3						8 3	2 3			4 4		2 8		80
									9 3	4									
carlton	3					0 1					8 4								16
st kilda	3				12 1					2	0 9				0 6				12
port adelaide	3				12 3		3		0 3			0 3							54
gold coast	4	8 32	1	6 1	16	0 3	2 40	8 3	2 1	6 1	6 6	4 6	46	32	2 6	4 4	8 6	4 8	80
hawthorn						0 1				0 3									18
adelaide		0 0					0 0	0 9			6 1	6 4	30	16	6 6			4 3	12
essendon	3					6 1			6 1		0 3					0 1			18
gws	1				6 1						0 3						0 48		18
west coast		0 16					0 0		0 1			0 11							0
north		0 0) (0 1	16	0 1	0 0	0	0	0	0 1	0 0			0 1	6 1	0 0	0	0
AFTER 16 T	geelong	mebourne	sydney	colingwood	freo	brisbane	richmond	buildags	carlton	saints	port	gold coast	hawks	adelaide	essendon	gws	eagles	north	SUM
geelong		0 0		4	0	4 (0 0	0	0	D	4 1	0 0			0 0	0 1	0 0	0	0
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FIGURE 2.1 AFTER ROUND 16 DOMINANCE MATRIX

Name	r	Ranking	Actual Position after 16	Actual position after 23	Difference
geelong	304	4	2	1	-3
melbourne	500	1	1	2	1
sydney	200	8	8	3	-5
collingwood	272	5	6	4	-1
fremantle	432	2	4	5	3
brisbane	388	3	3	6	3
richmond	112	9	7	7	-2
bulldogs	48	10	10	8	-2
carlton	252	6	5	9	3
st kilda	204	7	9	10	3
port adelaide	-52	11	12	11	0
gold coast	-68	12	11	12	0
hawthorn	-340	15	15	13	-2
adelaide	-328	14	14	14	0
essendon	-376	16	16	15	-1
gws	-244	13	13	16	3
west coast	-600	17	17	17	0
north	-704	18	18	18	0

FIGURE 2.2 AFTER ROUND 16 RANKING

AFTER 16 ROUNDS

The following dominance matrices show after m rounds, after m rounds squared, after m rounds transposed and finally after m rounds transposed and squared. This was used to calculate r1, r2 and lastly r to determine ranking position, through the formulas displayed earlier.

FTER 22	geelong	melbourne	sydney	collingwood	freo	brisbane	richmond	buildogs	carlton	saints	port	gold coast	hawks	adelaide	essendon	gws	eagles	north	SUM
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relbourne			0 (4 4							4
ydney			4 (4 0						0 0							4
olingwood			4 (4 (0		4 .				4 4				4
remantle			4 (0 .			4 4					4
risbane			0 4								4 .								4
chmond			0 0			2 4		0	4		0 .			4 0	9 4				0
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ariton			0 4						4		0 .								4
t kilda			0 0			4 0			0		0 1				4 0	,			4
ort adelaide			0 4					0	4		4 1	0 4			9 4				4
old coast			0 4						0		0 1								4
awthorn			0 0								0 .								4
delaide			0 0					4			0 .								4
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isbane :hmond	3							4 4											60 36
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FIGURE 3.1 AFTER ROUND 22 DOMINANCE MATRIX

Name	r	Ranking	Actual Position after 22	Actual position after 23	Difference						
geelong	620	1	1	1	0						
nelbourne	nelbourne 620		3	2	0	DUE TO	EQUAL R VALI	JES HIGHER			
ydney	476	5	2	3	-2	RANKING	G WAS GIVEN	TO TEAM			
collingwood	340	6	5	4	-2			OSITION AFTER			
remantle	552	3	6	5	2	ROUND	ROUND 22				
orisbane	484	4	4	6	2						
ichmond	136	9	7	7	-2						
oulldogs	104	10	9	8	-2						
arlton	212	7	8	9	2						
it kilda	204	8	10	10	2						
ort adelaide	-68	11	11	11	0						
sold coast	-204	12	12	12	0						
nawthorn	-340	13	13	13	0						
adelaide	-536	16	14	14	-2						
essendon	-476	15	15	15	0						
ţws	-340	14	16	16	2						
vest coast	-892	17	17	17	0						
north	-892	18	18	18	0						

FIGURE 3.2 AFTER ROUND 22 RANKING

AFTER 22 ROUNDS

The following dominance matrices show after m rounds, after m rounds squared, after m rounds transposed and finally after m rounds transposed and squared. This was used to calculate r1, r2 and lastly r to determine ranking position, through the formulas displayed earlier.

DISCUSSION

In the case of these results the most accurate representation was after 22 rounds, followed by 16 and finally 10. However due to the chaotic nature of the season after round 16 provided accurate results.

Discussing the reliability of this method is peculiar. Early in the season I would not trust this method as there are many factors including team chemistry and finding form etc. that come into play before a team's ability can be accurately shown. An example of this includes that 3 teams were inside the top 8 after round 10 and the eventual premiers who finished first were in 6th position. From a mathematical and statistical point of view I do feel like it can be reliable as long as each team's predicted ranking is taken with a grain of salt, for example after 10 rounds instead of assuming Geelong will finish 7th we can use the data to say, Geelong are on track to finish 7th at this given pace and therefore must change something tactically.

Discussion 2.0

A limitation of the dominance matrix which is vital to AFL as it's a national level game is there is no way to account for home and away advantages. For example, its much harder to defeat Fremantle at their home ground compared to the MCG which is a Victorian home ground. Another limitation this cannot account for is injuries, coaching staff changes, and a plethora of other internal factors a team must face through a season. Lastly there is not any consideration of tactics that teams use simply are they successful or not which is not particularly useful data for coaching staff.

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