During the last sprint, metrics **Lcom1,Lcom2** and **Lcom3** were implemented and integrated to the **Jpeek** project:

https://github.com/HSE-Eolang/jpeek/tree/master/src/eo

The tests for the metrics are the following:

test project:

https://github.com/eclipse/deeplearning4j-examples/tree/master/dl4j-examples

the result:



Overall score¹ is **8.24** out of 10. Here is the matrix.



Metric	E/C ²	μ^3	σ^3	^B M	lin M	ax Gr	reen ⁴ Yellov	v ⁴ Red	d ⁴ Sco	ore ⁵ I	Defects ⁶	Graph
EO_LCOM1		30/123 0%	17.33	37.89	1.00	117.00	30 24%	0 0%	0 0%	10.00 21%	13%	
EO_LCOM2		30/123 0%	0.69	0.17	0.33	0.95	19 15%	10 8%	1 1%	7.18 -13%	50%	
EO_LCOM3		26/123 0%	0.92	0.13	0.62	1.20	26 21%	0 0%	0 0%	10.00 21%	27%	. 11amle
LCOM		30/123 0%	17.33	37.89	1.00	117.00	13 11%	7 6%	10 8%	5.08 -38%	13%	Land Control
LCOM2		30/123 0%	0.69	0.17	0.33	0.95	19 15%	10 8%	1 1%	7.18 -13%	50%	
LCOM3		26/123 0%	0.92	0.13	0.62	1.20	26 21%	0 0%	0 0%	10.00 21%	27%	. Heading

test project:

https://github.com/javaparser/javaparser

the result:



Overall score¹ is **8.33** out of 10. Here is the matrix.



Metric	E/C ² μ ³	3 σ	3 Mir	n Max	Green ⁴	Yellow ⁴	Red ⁴	Sco	re ⁵ Defec	ts ⁶ Graph	
EO_LCOM1	3/32 0%	5.50	4.50	1.00	10.00	3 9%	0 0%	0 0%	10.00 20%	0%	
EO_LCOM2	2/32 0%	0.68	0.18	0.50	0.87	1 3%	1 3%	0 0%	6.25 -25%	0%	
EO_LCOM3	2/32 0%	1.08	0.08	1.00	1.17	2 6%	0 0%	0 0%	10.00 20%	0%	
LCOM	3/32 0%	5.50	4.50	1.00	10.00	2 6%	1 3%	0 0%	7.50 -10%	0%	
LCOM2	2/32 0%	0.68	0.18	0.50	0.87	1 3%	1 3%	0 0%	6.25 -25%	0%	
LCOM3	2/32 0%	1.08	0.08	1.00	1.17	2 6%	0 0%	0 0%	10.00	0%	

test projects:

https://github.com/json-iterator/java

the result:



7.2802

Overall score¹ is **7.28** out of 10. Here is the matrix.

Metric	E/C ²	μ^3	σ^3	Min I	Max	Green ⁴	Yellow ⁴	Red ⁴	Score ⁵	Defects ⁶	Graph
EO_LCOM1	56/15	1 60.7	9 200.18	1.00	885.00	56 37%	0%	6 09	0 10.00 6 37%	6%	<u>L</u>
EO_LCOM2	41/15	1 0.5	7 0.25	0.08	0.95	20 13%	12 89	6 69	5.72 6 -21%	37%	ե. լ.Խ <u>ա</u> ա.
EO_LCOM3	44/15	1 0.7	7 0.31	0.09	1.33	33 22%	€ 4%	S .	5 7.90	25%	و والعامون
LCOM	56/15	1 60.7	9 200.18	1.00	885.00	34 23%	. Ę	5 1	7 6.45 6.11%	6%	L
LCOM2	41/15	1 0.5	7 0.25	0.08	0.95	20 13%	12 89	6 69	9 5.72 6 -21%	37%	L. լ. հասա
LCOM3	44/15	1 0.7	7 0.31	0.09	1.33	33 22%	4%	S !	7.90 8%	25%	و والمعاون و

Overall:

As it well-seen above, the result index of each tested project shows the greater results of eo_metrics(EO_LCOM1/LCOM, EO_LCOM1 score is higher than original solution), other implemented metrics show the same result with original solution.