## Tema 4 Bucur Dan-Alexandru (243/2) & Timar Cosmin (243/1)

Aceasta pagina este doar una introductiva restul paginilor reprezinta excelurile printate si imbinate cu paginile de legatura.

## PARTEA 1

Exe	rcitiu 1		Benchmark								
Marime LVPT	Asociativitate	Tip predictie al saltului	tomcatv	mgrid	hydro2d	apsi	applu				
		predictibil	91	5287	104	1912	0				
	VHT mapat direct	inpredictibil	14	7	350	27266	4				
		predictibil	91	5449	104	3097	0				
2	VHT asociativ	inpredictibil	18	190	952	42783	45				
		predictibil	91	5287	104	1912	0				
	VHT mapat direct	inpredictibil	14	7	350	27266	4				
		predictibil	91	5449	153	14067	0				
4	VHT asociativ	inpredictibil	18	190	1112	63411	55				
		predictibil	91	5287	104	1912	0				
	VHT mapat direct	inpredictibil	14	7	350	27266	4				
		predictibil	91	5449	322	39383	1714				
8	VHT asociativ	inpredictibil	26	233	1378	124916	978				
		predictibil	91	5287	105	1945	0				
	VHT mapat direct	inpredictibil	14	24	450	36614	41				
		predictibil	121	5479	2698	96093	158229				
16	VHT asociativ	inpredictibil	49	263	2547	176197	277468				
		predictibil	94	5287	160	28920	28017				
	VHT mapat direct	inpredictibil	21	192	1548	75613	503				
		predictibil	808	6790	8121	121794	324945				
32	VHT asociativ	inpredictibil	386	1127	5080	187371	323469				
		predictibil	135	5529	1445	54413	32889				
	VHT mapat direct	inpredictibil	23	226	1771	106121	54755				
		predictibil	823	7293	11047	241130	325101				
64	VHT asociativ	inpredictibil	423	1382	6193	356941	323731				
		predictibil	179	5744	3880	88971	116076				
	VHT mapat direct	inpredictibil	118	261	3311	153282	137193				
		predictibil	888	7493	12387	272367	325367				
128	VHT asociativ	inpredictibil	532	1518	6559	388971	324153				
		predictibil	348	6183	5838	141729	208627				
	VHT mapat direct	inpredictibil	274	640	4357	237995	284411				
		predictibil	888	7619	13141	293998	325619				
256	VHT asociativ	inpredictibil	542	1604	6844	399458	324306				
		predictibil	630	6938	8692	218710	273018				
	VHT mapat direct	inpredictibil	402	1096	5534	309328	298932				
	,	predictibil	888	7634	14845	475729	329304				
512	VHT asociativ	inpredictibil	542	1633	7372	426642	324702				
		,									

Ca si concluzie VHT mapat asociativ creste gradul de predictie al salturilor fata de cel mapat direct de asemenea size-ul LVPT-ului determina cate instructiuni de salt pot fi prezise

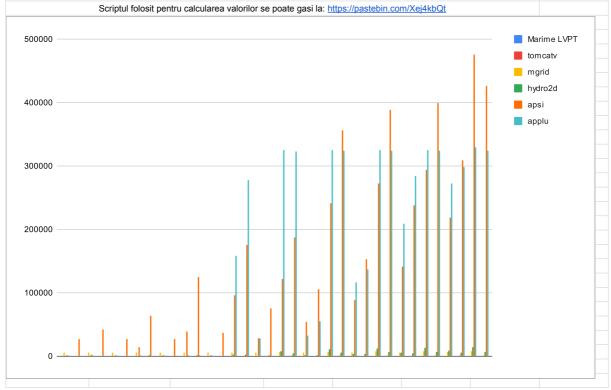
Exercitiul 2	((predictable * 100)/classifiedPred + (predictable * 100)/classifiedPred)/2										
Predictor contextua	ı	Benchmark									
Pattern	tomcatv	tomcatv mgrid hydro2d apsi applu									
1	96.31%	99,15%	95.33%	93.67%	87.68%						
2	96.31%	99.15%	95.33%	93.67%	87.68%						
3	96.31%	99.15%	95.33%	93.67%	87.68%						
4	96.31%	99.15%	95.33%	93.67%	87.68%						
6	96.31%	99.15%	95.33%	93.67%	87.68%						
8	96.31%	99.15%	95.33%	93.67%	87.68%						

Din oarecare motive patternul nu influenteaza acuratetea de predictie a predictorului contextual Scriptul folosit pentru calcularea valorilor se poate gasi la: <a href="https://pastebin.com/YjSEHCHU">https://pastebin.com/YjSEHCHU</a>

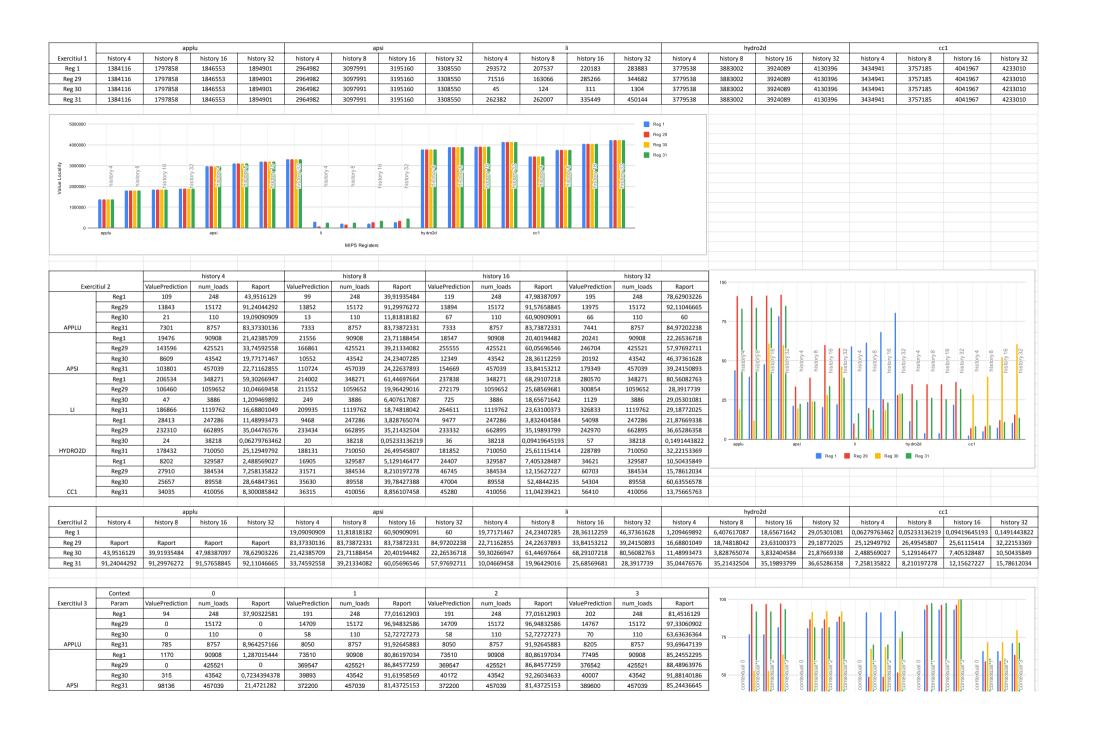
Exercitiul 3		((predictable * 100)/classifiedPred + (predictable * 100)/classifiedPred)/2												
Predictor hibrid			Benchmark											
Indexare tabela	Pattern	tomcatv	hydro2d	apsi	applu									
	1	58.78%	21.21%	47.34%	84%	86.45%								
	2	58.78%	21.21%	47.34%	84%	86.45%								
	3	58.78%	21.21%	47.34%	84%	86.45%								
	4	58.78%	21.21%	47.34%	84%	86.45%								
	6	58.78%	21.21%	47.34%	84%	86.45%								
Instr. adr.	8	58.78%	21.21%	47.34%	84%	86.45%								
	1	26.5%	10.85%	40.57%	49.65%	0.47%								

	2	26.5%	10.85%	40.57%	49.65%	0.47%
	3	26.5%	10.85%	40.57%	49.65%	0.47%
	4	26.5%	10.85%	40.57%	49.65%	0.47%
	6	26.5%	10.85%	40.57%	49.65%	0.47%
Data adr.	8	26.5%	10.85%	40.57%	49.65%	0.47%

Din oarecare motive patternul nu influenteaza acuratetea de predictie a predictorului hibrid dar indexarea in tabela influenteaza



## PARTEA 2



	Reg1	6976	348271	2,003037864	317894	348271	91,27776932	317894	348271	91,27776932	321239	348271	92,23822828	1 1	n dan dan 🗆	THE THE THE	11 100 100 1	m inna	n me i m	CIDE DE LE
	Reg29	1	1059652	,00009437060469	516499	1059652	48,74232295	517239	1059652	48,8121572	547393	1059652	51,65780841	1						/ III III
	Reg30	45	3886	1,158003088	2611	3886	67,18991251	2664	3886	68,55378281	2887	3886	74,29233145	25						<b></b>
l		262403			786440		-	786440			881113		-	+						<i>i</i> III III - H
LI	Reg31		1119762	23,43381897		1119762	70,23278161		1119762	70,23278161		1119762	78,68752467	-						/ III III H
	Reg1	12709	247286	5,139393253	230651	247286	93,27297138	230651	247286	93,27297138	230872	247286	93,36234158							<i>i</i> III III H
	Reg29	0	662895	0	637864	662895	96,22398721	637864	662895	96,22398721	638266	662895	96,2846303	,			1.			
	Reg30	0	38218	0	86	38218	0,2250248574	86	38218	0,2250248574	38217	38218	99,99738343	applu apsi li hydro2d cc1						
HYDRO2D	Reg31	178710	710050	25,1686501	693727	710050	97,70114781	693727	710050	97,70114781	710049	710050	99,99985916	Reg 1 Reg 29 Reg 30 Reg 31						
	Reg1	5917	329587	1,79527712	216.653	329.587	65,73469221	216653	329587	65,73469221	233989	329587	70,9946084							
	Reg29	374	384534	0,09726058034	226.977	384.534	59,02651001	227465	384534	59,15341686	243346	384534	63,28335076							
	Reg30	7763	89558	8,668125684	64051	89558	71,51901561	64081	89558	71,55251345	71349	89558	79,6679247							
CC1	Reg31	3175	410056	0,774284488	249.017	410056	60,72755916	249017	410056	60,72755916	292601	410056	71,35635133							
		ар	plu			ар	osi		li li			hyd	ro2d		cc1					
Exercitiul 3	contextual 0	contextual 1	contextual 2	contextual 3	contextual 0	contextual 1	contextual 2	contextual 3	contextual 0	contextual 1	contextual 2	contextual 3	contextual 0	contextual 1	contextual 2	contextual 3	contextual 0	contextual 1	contextual 2	contextual 3
Reg 1	Raport	Raport	Raport	Raport	8,964257166	91,92645883	91,92645883	93,69647139	21,4721282	81,43725153	81,43725153	85,24436645	23,43381897	70,23278161	70,23278161	78,68752467	25,1686501	97,70114781	97,70114781	99,99985916
Reg 29	37,90322581	77,01612903	77,01612903	81,4516129	1,287015444	80,86197034	80,86197034	85,24552295	2,003037864	91,27776932	91,27776932	92,23822828	5,139393253	93,27297138	93,27297138	93,36234158	1,79527712	65,73469221	65,73469221	70,9946084
Reg 30	0	96,94832586	96,94832586	97,33060902	0	86,84577259	86,84577259	88,48963976	,0000943706046	48,74232295	48,8121572	51,65780841	0	96,22398721	96,22398721	96,2846303	0,09726058034	59,02651001	59,15341686	63,28335076
Reg 31	0	52,72727273	52,72727273	63,63636364	0,7234394378	91,61958569	92,26034633	91,88140186	1,158003088	67,18991251	68,55378281	74,29233145	0	0,2250248574	0,2250248574	99,99738343	8,668125684	71,51901561	71,55251345	79,6679247