

1st case (High accuracy)

Algorithms	Percentage of successful prediction	Absolute number of predictions	Mean Score of valid predicted complexes	Sn	PPV	Acc_g
<u>Krogan dataset</u>						
SideS	46.15%	36/78	0.519	84.29%	56.94%	70.61%
Mcode	31.94%	23/72	0.614	87.00%	70.00%	78.04%
HCS	44.44%	32/72	0.578	88.40%	56.46%	72.43%
RNSC	42.86%	33/77	0.590	90.28%	58.33%	74.31%
EMC	54.84%	17/31	0.665	98.40%	63.30%	78.92%
GAPPI	32.10%	10.8/33.8	0.649	99.37%	94.09%	96.53%
<u>Gavin 2002 dataset</u>						
SideS	51.16%	22/43	0.44	78.57%	57.14%	67.01%
Mcode	35.00%	7/20	0.478	95.08%	50.00%	68.95%
HCS	55.56%	20/36	0.423	89.3%	57.93%	71.93%
RNSC	61.7%	29/47	0.512	85.71%	59.52%	71.43%
EMC	62.96%	17/27	0.539	95.24%	55.78%	72.89%
GAPPI	64.77%	23.9/36.9	0.601	97.17%	67.69%	81.10%
<u>Gavin 2006 dataset</u>						
SideS	37.76%	37/98	0.545	74.86%	57.73%	65.74%
Mcode	50.00%	31/62	0.543	73.44%	51.65%	61.59%
HCS	46.84%	37/79	0.528	81.42%	54.41%	66.56%
RNSC	50.62%	41/81	0.566	74.26%	81.19%	77.65%
EMC	55.17%	16/29	0.678	95.27%	63.51%	77.79%
GAPPI	79.24%	24.5/30.9	0.539	95.01%	65.37%	78.81%
<u>DIP dataset</u>						
SideS	46.07%	41/89	0.478	75.84%	53.56%	63.73%
Mcode	31.82%	21/66	0.515	71.71%	41.47%	54.53%
HCS	47.95%	35/73	0.504	80.34%	50.57%	63.74%
RNSC	47.54%	29/61	0.553	69.23%	92.31%	79.94%
EMC	58.33%	7/12	0.747	100.00%	72.60%	85.21%
GAPPI	53.71%	16.9/31.4	0.596	98.61%	74.85%	85.91%
<u>MIPS dataset</u>						
SideS	42.65%	29/68	0.597	80.11%	49.05%	62.68%
Mcode	43.10%	25/58	0.506	82.47%	44.66%	60.69%
HCS	45.00%	27/60	0.666	83.99%	47.75%	63.33%
RNSC	42.62%	26/61	0.661	86.36%	54.55%	68.63%
EMC	62.50%	20/32	0.657	100.00%	71.77%	84.72%
GAPPI	55.00%	16.5/30	0.649	100.00%	74.46%	86.28%

2nd case (Many clusters)

Algorithms	Percentage of successful prediction	Absolute number of predictions	Mean Score of valid predicted complexes	Sn	PPV	Acc_g
<u>Krogan dataset</u>						
SideS	46.15%	36/78	0.519	84.29%	56.94%	70.61%
Mcode	31.94%	23/72	0.614	87.00%	70.00%	78.04%
HCS	44.44%	32/72	0.578	88.40%	56.46%	72.43%
RNSC	42.86%	33/77	0.590	90.28%	58.33%	74.31%
EMC	54.84%	17/31	0.665	98.40%	63.30%	78.92%
GAPPI	24.17%	58/240	0.484	72.47%	56.57%	64.03%
<u>Gavin 2002 dataset</u>						
SideS	51.16%	22/43	0.44	78.57%	57.14%	67.01%
Mcode	35.00%	7/20	0.478	95.08%	50.00%	68.95%
HCS	55.56%	20/36	0.423	89.3%	57.93%	71.93%
RNSC	61.7%	29/47	0.512	85.71%	59.52%	71.43%
EMC	62.96%	17/27	0.539	95.24%	55.78%	72.89%
GAPPI	45.95%	51/111	0.531	80.04%	57.19%	67.66%
<u>Gavin 2006 dataset</u>						
SideS	37.76%	37/98	0.545	74.86%	57.73%	65.74%
Mcode	50.00%	31/62	0.543	73.44%	51.65%	61.59%
HCS	46.84%	37/79	0.528	81.42%	54.41%	66.56%
RNSC	50.62%	41/81	0.566	74.26%	81.19%	77.65%
EMC	55.17%	16/29	0.678	95.27%	63.51%	77.79%
GAPPI	51.14%	45/88	0.535	84.78%	54.19%	67.78%
<u>DIP dataset</u>						
SideS	46.07%	41/89	0.478	75.84%	53.56%	63.73%
Mcode	31.82%	21/66	0.515	71.71%	41.47%	54.53%
HCS	47.95%	35/73	0.504	80.34%	50.57%	63.74%
RNSC	47.54%	29/61	0.553	69.23%	92.31%	79.94%
EMC	58.33%	7/12	0.747	100.00%	72.60%	85.21%
GAPPI	17.17%	59/343.8	0.467	59.72%	56.25%	57.96%
<u>MIPS dataset</u>						
SideS	42.65%	29/68	0.597	80.11%	49.05%	62.68%
Mcode	43.10%	25/58	0.506	82.47%	44.66%	60.69%
HCS	45.00%	27/60	0.666	83.99%	47.75%	63.33%
RNSC	42.62%	26/61	0.661	86.36%	54.55%	68.63%
EMC	62.50%	20/32	0.657	100.00%	71.77%	84.72%
GAPPI	17.36%	59.4/342.2	0.472	61.20%	56.31%	58.70%

3rd case (High prediction rate)

Algorithms	Percentage of successful prediction	Absolute number of predictions	Mean Score of valid predicted complexes	Sn	PPV	Acc_g
<u>Krogan dataset</u>						
SideS	46.15%	36/78	0.519	84.29%	56.94%	70.61%
Mcode	31.94%	23/72	0.614	87.00%	70.00%	78.04%
HCS	44.44%	32/72	0.578	88.40%	56.46%	72.43%
RNSC	42.86%	33/77	0.590	90.28%	58.33%	74.31%
EMC	54.84%	17/31	0.665	98.40%	63.30%	78.92%
GAPPI	58.66%	18.3/31.2	0.467	91.57%	57.93%	72.84%
<u>Gavin 2002 dataset</u>						
SideS	51.16%	22/43	0.44	78.57%	57.14%	67.01%
Mcode	35.00%	7/20	0.478	95.08%	50.00%	68.95%
HCS	55.56%	20/36	0.423	89.3%	57.93%	71.93%
RNSC	61.7%	29/47	0.512	85.71%	59.52%	71.43%
EMC	62.96%	17/27	0.539	95.24%	55.78%	72.89%
GAPPI	74.19%	23/31	0.507	92.94%	55.76%	71.99%
<u>Gavin 2006 dataset</u>						
SideS	37.76%	37/98	0.545	74.86%	57.73%	65.74%
Mcode	50.00%	31/62	0.543	73.44%	51.65%	61.59%
HCS	46.84%	37/79	0.528	81.42%	54.41%	66.56%
RNSC	50.62%	41/81	0.566	74.26%	81.19%	77.65%
EMC	55.17%	16/29	0.678	95.27%	63.51%	77.79%
GAPPI	83.82%	25.9/30.9	0.520	94.20%	56.28%	72.81%
<u>DIP dataset</u>						
SideS	46.07%	41/89	0.478	75.84%	53.56%	63.73%
Mcode	31.82%	21/66	0.515	71.71%	41.47%	54.53%
HCS	47.95%	35/73	0.504	80.34%	50.57%	63.74%
RNSC	47.54%	29/61	0.553	69.23%	92.31%	79.94%
EMC	58.33%	7/12	0.747	100.00%	72.60%	85.21%
GAPPI	58.82%	20/34	0.594	95.24%	63.10%	77.52%
<u>MIPS dataset</u>						
SideS	42.65%	29/68	0.597	80.11%	49.05%	62.68%
Mcode	43.10%	25/58	0.506	82.47%	44.66%	60.69%
HCS	45.00%	27/60	0.666	83.99%	47.75%	63.33%
RNSC	42.62%	26/61	0.661	86.36%	54.55%	68.63%
EMC	62.50%	20/32	0.657	100.00%	71.77%	84.72%
GAPPI	55.33%	16.6/30	0.642	100.00%	74.06%	86.05%

Different genetic algorithm operators

Operators	Percentage of successful prediction	Absolute number of predictions	Mean Score of valid predicted complexes	Sn	PPV	Acc_g
<u>Krogan dataset</u>						
uniform-flip	48.14%	15.9/33	0.493	90.13%	50.54%	67.47%
uniform-swap	57.49%	17.9/31.1	0.470	91.29%	55.51%	71.12%
uniform-gaussian	58.71%	18.2/31.2	0.469	91.80%	58.26%	73.13%
one point-flip	48.40%	15.14/31.29	0.509	91.54%	50.72%	68.12%
one point-swap	58.98%	18.4/31.2	0.468	91.59%	57.90%	72.82%
one point-gaussian	58.66%	18.3/31.2	0.467	91.57%	57.93%	72.84%
twopoint-flip	48.56%	15.1/31.1	0.507	91.79%	51.22%	68.54%
twopoint-swap	57.30%	17.6/30.7	0.474	91.34%	55.81%	71.34%
twopoint-gaussian	54.53%	15.2/31.2	0.482	91.38%	54.74%	70.67%
<u>Gavin 2002 dataset</u>						
uniform-flip	74.19%	23/31	0.507	92.94%	55.76%	71.99%
uniform-swap	74.19%	23/31	0.507	92.94%	55.76%	71.99%
uniform-gaussian	74.11%	22.9/30.9	0.510	93.12%	55.20%	71.68%
one point-flip	73.87%	22.9/31	0.508	93.06%	56.12%	72.27%
one point-swap	74.19%	23/31	0.507	92.94%	55.76%	71.99%
one point-gaussian	74.19%	23/31	0.507	92.94%	55.76%	71.99%
twopoint-flip	74.19%	23/31	0.507	92.94%	55.76%	71.99%
twopoint-swap	70.09%	23/31	0.501	92.62%	55.63%	71.77%
twopoint-gaussian	74.19%	23/31	0.507	92.94%	55.76%	71.99%
<u>Gavin 2006 dataset</u>						
uniform-flip	77.14%	27/35	0.529	93.47%	54.29%	71.23%
uniform-swap	83.87%	26/31	0.521	94.20%	56.25%	72.79%
uniform-gaussian	83.87%	26/31	0.521	94.20%	56.25%	72.79%
one point-flip	77.08%	26.9/34.9	0.530	93.72%	54.35%	71.37%
one point-swap	83.87%	26/31	0.521	94.20%	56.25%	72.79%
one point-gaussian	83.82%	25.9/30.9	0.520	94.20%	56.28%	72.81%
twopoint-flip	77.01%	26.8/34.8	0.531	93.97%	54.41%	71.50%
twopoint-swap	83.87%	26/31	0.521	94.20%	56.25%	72.79%
twopoint-gaussian	77.01%	26.8/34.8	0.531	93.97%	54.41%	71.50%

DIP dataset						
uniform-flip	59.53%	18.8/31.4	0.601	95.02%	61.39%	76.37%
uniform-swap	59.06%	19.6/33.2	0.599	95.16%	62.53%	77.14%
uniform-gaussian	58.82%	20/34	0.597	95.24%	63.10%	77.52%
one point-flip	58.94%	19.8/33.6	0.598	95.20%	62.81%	77.33%
one point-swap	57.57%	19.2/33.3	0.594	95.55%	63.76%	78.04%
one point-gaussian	58.82%	20/34	0.597	95.68%	63.76%	77.52%
twopoint-flip	58.54%	18.5/31	0.597	95.42%	63.36%	77.60%
twopoint-swap	58.94%	19.8/33.6	0.597	95.20%	62.81%	77.33%
twopoint-gaussian	59.53%	19.3/32.5	0.601	95.02%	61.39%	76.37%
MIPS dataset						
uniform-flip	56.11%	16.9/30	0.627	100.00%	73.21%	85.56%
uniform-swap	55.67%	16.7/30	0.636	100.00%	73.71%	85.85%
uniform-gaussian	56.00%	16.8/30	0.629	100.00%	73.25%	85.58%
one point-flip	56.67%	17/30	0.616	100.00%	72.54%	85.17%
one point-swap	56.33%	16.9/30	0.622	100.00%	72.96%	85.42%
one point-gaussian	56.33%	16.9/31	1.622	100.00%	74.06%	86.05%
twopoint-flip	56.11%	16.8/30	0.627	100.00%	73.03%	85.45%
twopoint-swap	55.67%	16.7/30	0.636	100.00%	73.71%	85.85%
twopoint-gaussian	55.56%	16.7/30	0.638	100.00%	73.82%	85.91%