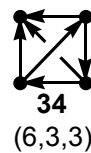
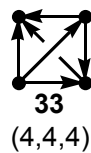
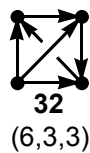
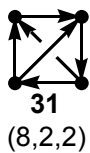
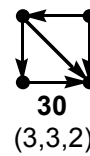
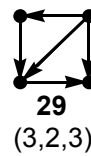
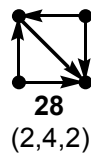
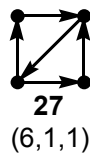
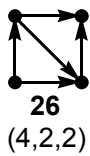
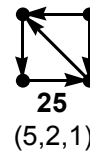
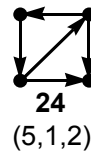
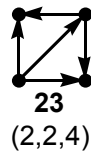
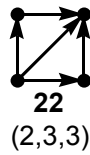
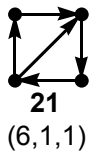
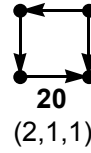
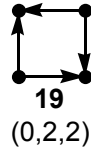
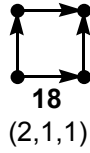
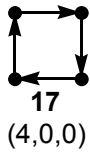
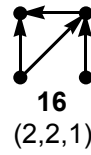
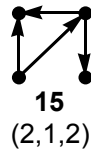
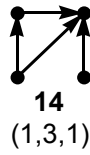
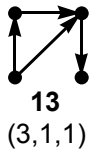
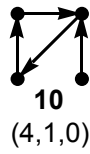
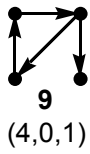
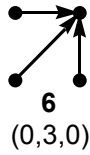
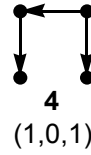
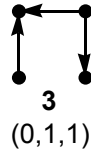
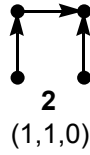
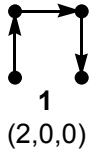


Complexity and Diversity of Digraphs

S.H. Bertz, G. Pereira and C.M.D. Zamfirescu

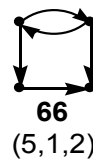
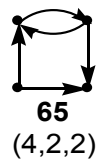
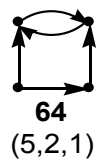
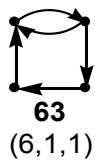
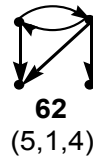
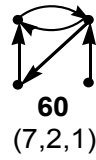
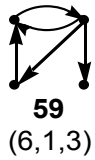
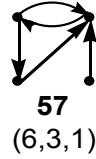
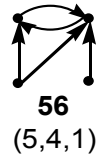
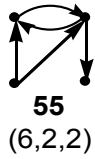
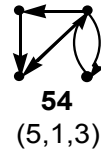
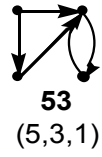
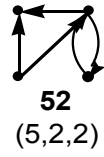
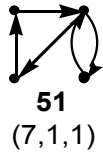
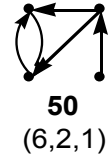
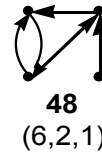
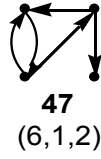
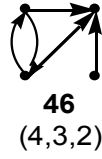
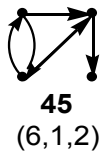
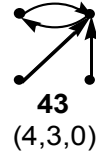
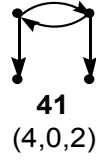
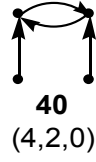
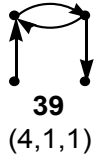
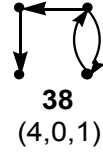
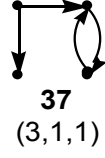
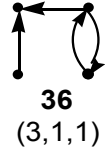
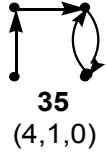
Appendix 1–Connected digraphs with four points and no 2-cycles



Complexity and Diversity of Digraphs

S.H. Bertz, G. Pereira and C.M.D. Zamfirescu

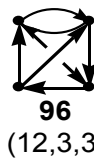
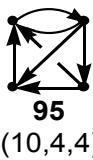
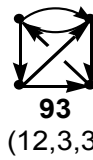
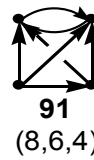
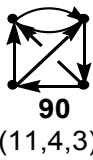
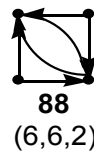
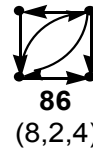
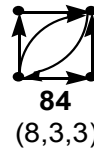
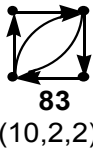
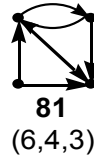
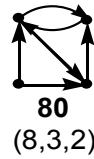
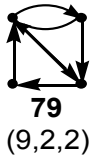
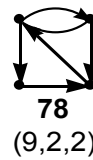
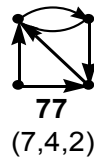
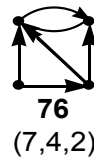
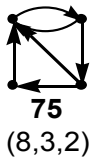
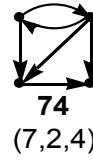
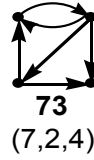
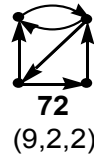
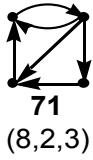
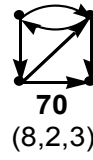
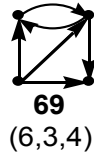
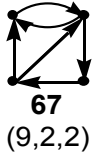
Appendix 2a—Connected digraphs with four points and one 2-cycle (part a)



Complexity and Diversity of Digraphs

S.H. Bertz, G. Pereira and C.M.D. Zamfirescu

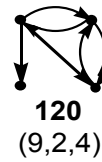
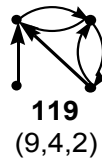
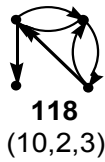
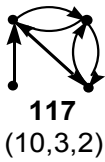
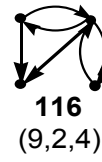
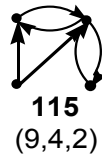
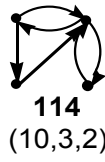
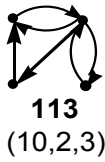
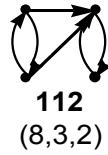
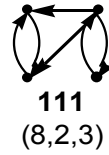
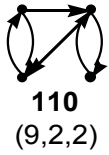
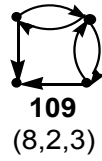
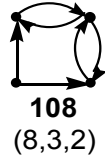
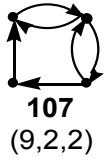
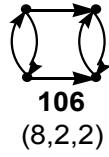
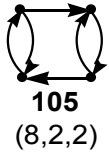
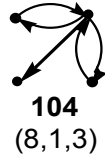
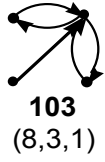
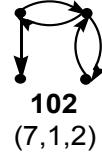
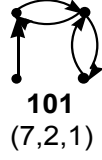
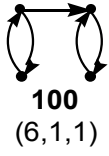
Appendix 2b—Connected digraphs with four points and one 2-cycle (part b)



Complexity and Diversity of Digraphs

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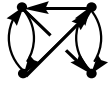
Appendix 3a—Connected digraphs with four points and two 2-cycles (part a)



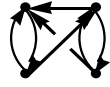
Complexity and Diversity of Digraphs

S.H. Bertz, G. Pereira and C.M.D. Zamfirescu

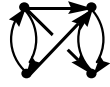
Appendix 3b—Connected digraphs with four points and two 2-cycles (part b)



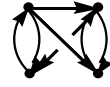
123
(12,3,3)



124
(11,3,4)



125
(10,4,4)



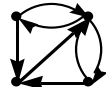
126
(11,4,3)



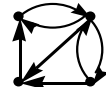
127
(12,4,3)



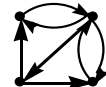
128
(10,5,4)



129
(12,4,3)



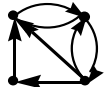
130
(12,3,4)



131
(12,3,4)



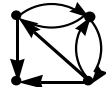
132
(10,4,5)



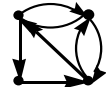
133
(11,4,4)



134
(11,5,3)



135
(11,3,5)



136
(13,3,3)



137
(13,3,4)



138
(11,3,6)



139
(12,4,4)



140
(12,3,5)



141
(13,4,3)



142
(11,6,3)



143
(12,5,3)



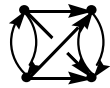
144
(12,4,4)



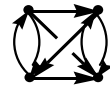
145
(16,4,4)



146
(14,5,5)



147
(12,6,6)



148
(14,5,5)



149
(15,5,5)



150
(14,6,5)



151
(14,5,6)



152
(13,5,7)



153
(16,5,4)



154
(13,7,5)



155
(15,5,5)

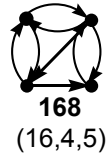
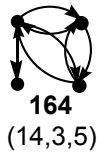
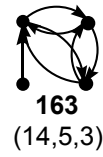
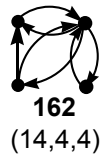
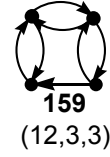
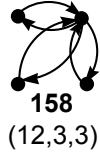
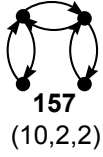


156
(16,4,5)

Complexity and Diversity of Digraphs

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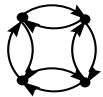
Appendix 4–Connected digraphs with four points and three 2-cycles



Complexity and Diversity of Digraphs

S.H. Bertz, G. Pereira and C.M.D. Zamfirescu

Appendix 5—Connected digraphs with four points and four to six 2-cycles



188
(16,4,4)



189
(18,5,5)



190
(20,6,6)



191
(21,7,6)



192
(21,6,7)



193
(24,8,8)



194
(25,8,8)



195
(24,9,8)



196
(24,8,9)



197
(26,8,8)



198
(30,10,10)


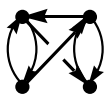

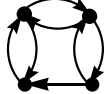
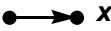


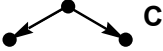










199
(36,12,12)

Complexity and Diversity of Digraphs

S.H. Bertz, G. Pereira and C.M.D. Zamfirescu

Appendix 6—All possible trees for selected digraphs

				
	90	123	158	159
• T_1	4	4	4	4
 x	7	7	6	7
 A	9	8	6	6
 B	4	3	3	3
 C	3	3	3	3
 1	6	4	0	5
 2	5	5	0	5
 3	3	3	0	5
 4	4	5	0	5
 5	2	2	3	0
 6	1	0	1	0
 7	3	2	3	0
 8	0	0	1	0
$T_T (T_S)$	51 (12)	46 (11)	30 (9)	43 (9)